



The bidi Package

Source documentation for [version 25.2.2](#)

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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The *bidi* Package

Bidirectional typesetting in plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$, using Xe $\text{T}_{\text{E}}\text{X}$ engine

Source documentation for [version 25.2.2](#)

Vafa Khalighi*

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*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3 \ifnum #1>\c@tocdepth % then omit
4 \else
5 \par \addpenalty\@secpenalty\addvspace{#2}%
6 \begingroup \hyphenpenalty\@M
7 \ifempty{#4}{%
8 \@tempdima\csname r@tocindent\number#1\endcsname\relax
9 }{%
10 \@tempdima#4\relax
11 }%
12 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\
13 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16 \nobreak
17 \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24 \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27 \kern-.4\p@
28 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29 \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35 \insert\footins{%
36 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37 \reset@font%
38 \bidi@@footnotetext@font% \normalfont\footnotesize
39 \interlinepenalty\interfootnotelinepenalty
40 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41 \floatingpenalty\@MM \hsize\columnwidth
42 \@parboxrestore \parindent\normalparindent \sloppy
43 \protected@edef\@currentlabel{%
44 \csname p@footnote\endcsname\@thefnmark}%
45 \@makefnmark%
46 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
47
48 \long\def\@RTLfootnotetext#1{%
49 \insert\footins{%
50 \@RTLtrue%
51 \reset@font%
52 \bidi@@RTLfootnotetext@font% \normalfont\footnotesize
```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefntext{%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefntext{%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent{z@ \parskip{z@\@plus.3\p@}\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111 \@topnum\z@ % this prevents figures from falling at the top of page 1
112 \setcopyright
113 \thispagestyle{firstpage}% this sets first page specifications
114 \uppercase\shorttitle
115 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116 \else \andify\shortauthors
117 \fi
118 \@maketitle@hook
119 \begingroup
120 \@maketitle
121 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
122 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123 \edef\@tempa{%
124 \@nx\markboth{\the\toks4
125 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126 \@tempa
127 \endgroup
128 \c@footnote\z@
129 \cleartopmattertags
130 }

```

2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133 \def\@tempa{#2}%
134 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135 \def\@tempa{#3}%
136 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137 \ifnum\col@number<\@ne
138 \PackageWarning{adjmulticol}%
139 {Using '\number\col@number'
140 columns doesn't seem a good idea.^^J
141 I therefore use one columns instead}%
142 \col@number\@ne\fi
143 \ifnum\col@number>10
144 \PackageError{adjmulticol}%
145 {Too many columns}%
146 {Current implementation doesn't
147 support more than 10 columns.%
148 \MessageBreak
149 I therefore use 10 columns instead}%
150 \col@number10 \fi
151 \ifx\@footnotetext\mult@footnotetext\else
152 \let\orig@footnotetext\@footnotetext
153 \let\@footnotetext\mult@footnotetext
154 \fi
155 \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156 \let\orig@LTRfootnotetext\@LTRfootnotetext
157 \let\@LTRfootnotetext\mult@LTRfootnotetext

```




```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic@c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
199 }}{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\csname r@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesepp \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefntext{%
273       \rule\z@\footnotesepp\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesepp \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefntext{%
288       \rule\z@\footnotesepp\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@LTRbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
309 \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312 \begingroup
313 \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

5 File `amsmath-xetex-bidi.def`

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\@nocounterr{#2}}{%
341 \ifundefined{c@#3}{\@nocnterr{#3}}{%
342 \addtoreset{#2}{#3}%
343 \xp\xdef\csname the#2\endcsname{%
344 \xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

6 File `amstext-xetex-bidi.def`

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```

7 File `amsthm-xetex-bidi.def`



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2024/12/10 v0.5 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
387 \def\@tabular{%
388 \leavevmode
389 \hbox \bgroup\if@RTLtab\beginR \fi
390 \UseTaggingSocket{tbl/hmode/begin}%
391 $\col@sep\tabc@lsep \let\d@llarbegin\begin@group
392 \let\d@llarend\end@group
393 \@tabarray}
394 \def\endtabular{\endarray\m@th $
395 \UseTaggingSocket{tbl/hmode/end}%
396 \if@RTLtab\endR\fi\egroup
397 }
398 \expandafter\let\c@name endtabular*\endc@name=\endtabular
399 \ExplSyntaxOn
400 \def\@array[#1]#2{
401 \@tempdima \ht \strutbox
402 \advance \@tempdima by\extrarowheight
403 \setbox \@arstrutbox \hbox{\vrule
404 \@height \arraystretch \@tempdima
405 \@depth \arraystretch \dp \strutbox
406 \@width \z@}%
407 \tbl_save_outer_table_cols:
408 \begin@group
409 \mkpream{#2}%

```



```

410 \tbl_count_table_cols:
411 \xdef\@preamble{
412   \noexpand \ar@ialign
413   \@halignto
414   \bgroup \@arstrut
415   \UseTaggingSocket{tbl/row/begin}
416   \tbl_init_cell_data_for_row:
417   \@preamble
418   \tabskip \z@ \cr}
419 \endgroup
420 \@arrayleft
421 \if #1\vtop \else \if#1b\vbox \else \vcenter \fi \fi
422 \bgroup
423 \let \@sharp ##\let \protect \relax
424 \lineskip \z@
425 \baselineskip \z@
426 \mathsurround \z@
427 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
428 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
429 \UseTaggingSocket{tbl/init}
430 \@preamble
431 }
432 \ExplSyntaxOff
433 \let\@array\@array
434 \ExplSyntaxOn
435 \def\endarray {
436   \tbl_crcr:n{endarray} \egroup
437   \UseTaggingSocket{tbl/finalize}
438   \tbl_restore_outer_cell_data:
439   \if@RTLtab\egroup\endR\egroup\fi
440   \egroup
441   \@arrayright \gdef\@preamble{}%
442 }
443 \ExplSyntaxOff
444 \def\array{\col@sep\arraycolsep
445   \def\d@llarbegin{${}\let\d@llarend\d@llarbegin\def\@halignto{}}%
446   \@RTLtabfalse\@tabarray}

```

9 File article-xetex-bidi.def

```

447 \ProvidesFile{article-xetex-bidi.def}[2025/01/05 v0.9 bidi adaptations for standard article]
448 \IfClassLoadedT{svmult}{\endinput}
449 \if@titlepage
450   \renewcommand\maketitle{\begin{titlepage}%
451     \let\footnotesize\small
452     \let\right@footnoterule\relax
453     \let\left@footnoterule\relax
454     \let\textwidth@footnoterule\relax
455     \let \footnote \thanks
456     \let \LTRfootnote \LTRthanks
457     \let \RTLfootnote \RTLthanks
458     \null\vfil
459     \vskip 60\p@
460     \begin{center}%

```



```

461   {\LARGE \@title \par}%
462   \vskip 3em%
463   {\large
464     \lineskip .75em%
465     \begin{tabular}[t]{c}%
466       \@author
467     \end{tabular}\par}%
468   \vskip 1.5em%
469   {\large \@date \par}%           % Set date in \large size.
470 \end{center}\par
471 \@thanks
472 \vfil\null
473 \end{titlepage}%
474 \setcounter{footnote}{0}%
475 \global\let\thanks\relax
476 \global\let\LTRthanks\relax
477 \global\let\RTLthanks\relax
478 \global\let\maketitle\relax
479 \global\let\@thanks\@empty
480 \global\let\@author\@empty
481 \global\let\@date\@empty
482 \global\let\@title\@empty
483 \global\let\title\relax
484 \global\let\author\relax
485 \global\let\date\relax
486 \global\let\and\relax
487 }
488 \else
489 \renewcommand\maketitle{\par
490   \begingroup
491     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
492     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
493     \long\def\@makefntext##1{\parindent 1em\noindent
494       \hb@xt@1.8em{%
495         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
496     \if@twocolumn
497       \ifnum \col@number=\@one
498         \@maketitle
499       \else
500         \twocolumn[\@maketitle]%
501       \fi
502     \else
503       \newpage
504       \global\@topnum\z@   % Prevents figures from going at top of page.
505       \@maketitle
506     \fi
507     \thispagestyle{plain}\@thanks
508   \endgroup
509   \setcounter{footnote}{0}%
510   \global\let\thanks\relax
511   \global\let\LTRthanks\relax
512   \global\let\RTLthanks\relax
513   \global\let\maketitle\relax
514   \global\let\@maketitle\relax

```



```

515 \global\let\thanks\@empty
516 \global\let\author\@empty
517 \global\let\@date\@empty
518 \global\let\@title\@empty
519 \global\let\title\relax
520 \global\let\author\relax
521 \global\let\date\relax
522 \global\let\and\relax
523 }
524 \def\@maketitle{%
525 \newpage
526 \null
527 \vskip 2em%
528 \begin{center}%
529 \let \footnote \thanks
530 \let \LTRfootnote \LTRthanks
531 \let \RTLfootnote \RTLthanks
532 {\LARGE \@title \par}%
533 \vskip 1.5em%
534 {\large
535 \lineskip .5em%
536 \begin{tabular}[t]{c}%
537 \@author
538 \end{tabular}\par}%
539 \vskip 1em%
540 {\large \@date}%
541 \end{center}%
542 \par
543 \vskip 1.5em}
544 \fi
545 \renewcommand*\l@part[2]{%
546 \ifnum \c@tocdepth >-2\relax
547 \addpenalty\@secpenalty
548 \addvspace{2.25em \@plus\p@}%
549 \setlength\@tempdima{3em}%
550 \begingroup
551 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
552 \parfillskip -\@pnumwidth
553 {\leavevmode
554 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
555 \nobreak
556 \if@compatibility
557 \global\@nobreaktrue
558 \everypar{\global\@nobreakfalse\everypar{}}%
559 \fi
560 \endgroup
561 \fi}
562 \renewcommand*\l@section[2]{%
563 \ifnum \c@tocdepth >\z@
564 \addpenalty\@secpenalty
565 \addvspace{1.0em \@plus\p@}%
566 \setlength\@tempdima{1.5em}%
567 \begingroup
568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```




```

569     \parfillskip -\@pnumwidth
570     \leavevmode \bfseries
571     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
572     \hskip -\if@RTL\rightskip\else\leftskip\fi
573     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
574   \endgroup
575 \fi}
576 \renewcommand\left@footnoterule{%
577   \kern-3\p@
578   \hrule\@width.4\columnwidth
579   \kern2.6\p@}
580 \renewcommand\right@footnoterule{%
581   \kern-3\p@
582   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
583   \kern2.6\p@}
584 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
585 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
586 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
587 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
588 \def\@part[#1]#2{%
589   \ifnum \c@secnumdepth >\m@ne
590     \refstepcounter{part}%
591     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
592   \else
593     \addcontentsline{toc}{part}{#1}%
594   \fi
595   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
596     \interlinepenalty \@M
597     \normalfont
598     \ifnum \c@secnumdepth >\m@ne
599       \Large\bfseries \partname\nobreakspace\thepart
600       \par\nobreak
601     \fi
602     \huge \bfseries #2%
603     \markboth{}{\par}%
604     \nobreak
605     \vskip 3ex
606     \@afterheading}
607 \ApplyPatchIfPackageLoaded{nameref}{%
608   \bidi@patchcmd\NR@spart\raggedright{%
609     \if@RTL\raggedleft\else\raggedright\fi
610   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
611 }{%
612   \bidi@patchcmd\@spart\raggedright{%
613     \if@RTL\raggedleft\else\raggedright\fi
614   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
615 }
616 \renewenvironment{thebibliography}[1]
617   {\section*{\refname}%
618     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
619     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
620     \bidi@@thebibliography@font@hook%
621     \list{\@biblabel{\@arabic\c@enumiv}}%
622     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

623         \leftmargin\labelwidth
624         \advance\leftmargin\labelsep
625         \@openbib@code
626         \usecounter{enumiv}%
627         \let\p@enumiv\@empty
628         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
629     \sloppy
630     \clubpenalty4000
631     \@clubpenalty \clubpenalty
632     \widowpenalty4000%
633     \sfcode`. \@m}
634     {\def\@noitemerr
635      {\@latex@warning{Empty `thebibliography' environment}}}%
636     \endlist}
637 \renewenvironment{theindex}
638     {\if@twocolumn
639      \@restonecolfalse
640      \else
641      \@restonecoltrue
642      \fi
643      \columnseprule \z@
644      \columnsep 35\p@
645      \twocolumn[\section*{\indexname}]%
646      \@mkboth{\MakeUppercase\indexname}%
647              {\MakeUppercase\indexname}%
648      \thispagestyle{plain}\parindent\z@
649      \parskip\z@ \@plus .3\p@\relax
650      \let\item\@idxitem}
651     {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

652 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
653 \renewenvironment{theindex}{%
654   \if@twocolumn
655     \@restonecolfalse
656   \else
657     \@restonecoltrue
658   \fi
659   \columnseprule \z@
660   \columnsep 35\p@
661   \twocolumn[\section*{\indexname}]%
662   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
663   \thispagestyle{plain}\parindent\z@
664   \parskip\z@ \@plus .3\p@\relax
665   \let\item\@idxitem
666 }{%
667   \if@restonecol\onecolumn\else\clearpage\fi}
668 \renewcommand*\head@style{%
669   \interlinepenalty \@M
670   \hyphenpenalty=\@M \exhyphenpenalty=\@M
671   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel\relax}
672 \if@titlepage
673 \renewenvironment{abstract}{%

```



```

674     \titlepage
675     \null\vfil
676     \section*{\SectFont\abstractname}
677     \noindent\ignorespaces}
678     {\par\vfil\null\endtitlepage}
679 \else
680 \renewenvironment{abstract}{%
681     \if@twocolumn
682     \section*{\abstractname}%
683     \else
684     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
685     \section*{\small\SectFont\abstractname}%
686     \noindent\ignorespaces
687     \fi}
688     {\if@twocolumn\else\par\egroup\fi}
689 \fi
690 \renewcommand*\@regtocline[3]{%
691     \ifnum #1>\c@tocdepth
692     \else
693     \vskip\z@\@plus.2\p@
694     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
695     \if@RTL\rightskip\else\leftskip\fi\unitindent
696     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
697     \parfillskip\z@
698     \@tempdima\unitindent
699     \parindent\z@
700     \leavevmode
701     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
702     \hskip 1em \nobreak{\slshape #3}\par
703     }%
704     \fi}
705 \if@oldtoc
706 \renewcommand*\l@part[2]{%
707     \ifnum \c@tocdepth >-2\relax
708     \addpenalty\@secpenalty
709     \addvspace{2.25em \@plus\p@}%
710     \begingroup
711     \setlength\@tempdima{3em}%
712     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
713     \parfillskip -\@pnumwidth
714     {\leavevmode
715     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
716     \nobreak
717     \if@compatibility
718     \global\@nobreaktrue
719     \everypar{\global\@nobreakfalse\everypar{}}%
720     \fi
721     \endgroup
722     \fi}
723 \else
724 \renewcommand*\l@part{%
725     \ifnum \c@tocdepth >-2\relax
726     \addpenalty\@secpenalty
727     \addvspace{2.25em \@plus \p@}%

```



```

728     \@regtocoline{0}%
729     \fi}
730 \fi
731 \if@oldtoc
732 \renewcommand*\l@section[2]{%
733     \addpenalty\@secpenalty
734     \addvspace{1.0em \@plus\p@}%
735     \setlength\@tempdima{1.5em}%
736     \begingroup
737     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
738     \parfillskip -\@pnumwidth
739     \leavevmode \bfseries
740     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
741     \hskip -\if@RTL\rightskip\else\leftskip\fi
742     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
743     \endgroup}
744 \else
745     \renewcommand*\l@section{\@regtocoline{1}}
746 \fi
747 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
748 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
749 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
750 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
751 \renewenvironment{thebibliography}[1]
752     {\section*\@refname}%
753     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
754     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
755     \bidi@thebibliography@font@hook%
756     \list{\@biblabel{\@arabic\c@enumiv}}%
757         {\settowidth\labelwidth{\@biblabel{#1}}%
758         \leftmargin\labelwidth
759         \advance\leftmargin\labelsep
760         \@openbib@code
761         \usecounter{enumiv}%
762         \let\p@enumiv\@empty
763         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
764     \sloppy\clubpenalty4000\widowpenalty4000%
765     \sfcode\.\@m}
766     {\def\@noitemerr
767         {\@latex@warning{Empty `thebibliography' environment}}%
768     \endlist}
769 \renewcommand*\left@footnoterule{%
770     \kern-3\p@
771     \kern.5\baselineskip
772     \hrule\@width\unitindent
773     \kern.4\baselineskip
774 }
775 \renewcommand*\right@footnoterule{%
776     \kern-3\p@
777     \kern.5\baselineskip
778     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
779     \kern.4\baselineskip}
780 \if@titlepage
781 \renewcommand*\TitleFont{\rmfamily}

```



```

782 \renewcommand*\maketitle{%
783 \begin{titlepage}%
784 \let\footnotesize\small
785 \let\right@footnoterule\relax
786 \let\left@footnoterule\relax
787 \let\textwidth@footnoterule\relax
788 \let \footnote \thanks
789 \long\def \@makefntext##1{\parindent\z@
790 \def\labelitemi{\textendash}\@revlabeltrue
791 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
792 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
793 \if@compatibility\setcounter{page}{0}\fi
794 \null\vfil
795 \vskip 60\p@
796 \begin{center}%
797 \TitleFont
798 {\LARGE \def\{\{\penalty -\@M}
799 \if@allcaps
800 \expandafter\uc@nothanks\@title\thanks\relax
801 \else
802 \@title
803 \fi\par}%
804 \vskip 3em%
805 {\large
806 \lineskip .75em \parindent\z@
807 \begin{tabular}[t]{c}%
808 \if@allcaps
809 \expandafter\uc@authornothanks\@author\and\relax
810 \else
811 \@author
812 \fi
813 \end{tabular}\par}%
814 \vskip 1.5em%
815 {\large
816 \if@allcaps
817 \uppercase\expandafter{\@date}%
818 \else
819 \@date
820 \fi\par}%
821 \end{center}\par
822 \@thanks
823 \vfil\null
824 \end{titlepage}%
825 \setcounter{footnote}{0}%
826 \global\let\thanks\relax
827 \global\let\maketitle\relax
828 \global\let\@thanks\@empty
829 \global\let\@author\@empty
830 \global\let\@title\@empty
831 \global\let\@date\@empty
832 \global\let\title\relax
833 \global\let\author\relax
834 \global\let\date\relax
835 \global\let\and\relax

```



```

836 }
837 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
838 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
839   \futurelet\@tempa\uc@ax}
840 \def\uc@ax{%
841   \ifx\@tempa\relax
842   \else
843     \ \andname \ \expandafter\uc@authornothanks
844   \fi}
845 \def\uc@tx{\ifx\@tempa\relax
846   \else \expandafter\uc@ty \fi}
847 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
848 \else
849 \renewcommand*\maketitle{\par
850   \begin{group}
851     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
852     \def\@makefnmark{\rlap{%
853       \@textsuperscript{\normalfont\@thefnmark}}}%
854     \long\def\@makefntext{\@xmakefntext{%
855       \@textsuperscript{\normalfont\@thefnmark}}}%
856     \if@twocolumn
857       \ifnum \col@number=\@ne
858         \@maketitle
859       \else
860         \twocolumn[\@maketitle]%
861       \fi
862     \else
863       \newpage
864       \global\@topnum\z@
865       \@maketitle
866     \fi
867     \thispagestyle{plain}\@thanks
868   \end{group}
869   \setcounter{footnote}{0}%
870   \global\let\thanks\relax
871   \global\let\maketitle\relax
872   \global\let\@maketitle\relax
873   \global\let\@thanks\@empty
874   \global\let\@author\@empty
875   \global\let\@title\@empty
876   \global\let\@date\@empty
877   \global\let\title\relax
878   \global\let\author\relax
879   \global\let\date\relax
880   \global\let\and\relax
881 }
882 \def\@maketitle{%
883   \newpage
884   \null
885   \vskip 2em%
886   \begin{center}%
887     \let \footnote \thanks
888     {\LARGE \TitleFont \@title \par}%
889     \vskip 1.5em%

```



```

890   {\large \TitleFont
891     \lineskip .5em%
892     \begin{tabular}[t]{c}%
893       \@author
894     \end{tabular}\par}%
895   \vskip 1em%
896   {\large \TitleFont \@date}%
897 \end{center}%
898 \par
899 \vskip 1.5em}
900 \fi

```

11 File artikel2-xetex-bidi.def

```

901 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
902 \renewenvironment{theindex}{%
903   \if@twocolumn
904     \@restonecolfalse
905   \else
906     \@restonecoltrue
907   \fi
908   \columnseprule \z@
909   \columnsep 35\p@
910   \twocolumn[\section*{\indexname}]%
911   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
912   \thispagestyle{plain}\parindent\z@
913   \parskip\z@ \@plus .3\p@\relax
914   \let\item\@idxitem
915   }{%
916   \if@restonecol\onecolumn\else\clearpage\fi}
917 \renewcommand*\@regtocline[3]{%
918   \ifnum #1>\c@tocdepth
919   \else
920     \vskip\z@\@plus.2\p@
921     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
922       \if@RTL\righskip\else\leftskip\fi\unitindent
923       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
924       \parfillskip\z@
925       \@tempdima\unitindent
926       \advance\@tempdima by \othermargin
927       \parindent\z@
928       \leavevmode
929       \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
930       \hskip 1em \nobreak{\slshape #3}\par
931     }%
932   \fi}
933 \if@oldtoc
934 \renewcommand*\l@section[2]{%
935   \addpenalty\@secpenalty
936   \addvspace{1.0em \@plus\p@}%
937   \setlength\@tempdima{1.5em}%
938   \begingroup
939   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
940   \parfillskip -\@pnumwidth

```



```

941 \leavevmode \bfseries
942 \advance\if@RTL\rightskip\else\leftskip\fi@tempdima
943 \hskip -\if@RTL\rightskip\else\leftskip\fi
944 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
945 \endgroup}
946 \else
947 \renewcommand*\l@section{\@regtocline{1}}
948 \fi
949 \if@oldtoc
950 \renewcommand*\l@part[2]{%
951 \ifnum \c@tocdepth >-2\relax
952 \addpenalty\@secpenalty
953 \addvspace{2.25em \@plus\p@}%
954 \begingroup
955 \setlength\@tempdima{3em}%
956 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
957 \parfillskip -\@pnumwidth
958 {\leavevmode
959 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
960 \nobreak
961 \if@compatibility
962 \global\@nobreaktrue
963 \everypar{\global\@nobreakfalse\everypar{}}%
964 \fi
965 \endgroup
966 \fi}
967 \else
968 \renewcommand*\l@part{%
969 \ifnum \c@tocdepth >-2\relax
970 \addpenalty\@secpenalty
971 \addvspace{2.25em \@plus \p@}%
972 \@regtocline{0}%
973 \fi}
974 \fi
975 \renewcommand*\head@style{%
976 \interlinepenalty \@M
977 \hyphenpenalty=\@M \exhyphenpenalty=\@M
978 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
979 \if@titlepage
980 \renewenvironment{abstract}{%
981 \titlepage
982 \null\vfil
983 \section*{\SectFont\abstractname}%
984 \noindent\ignorespaces}
985 {\par\vfil\null\endtitlepage}
986 \else
987 \renewenvironment{abstract}{%
988 \if@twocolumn
989 \section*{\abstractname}%
990 \else
991 \section*{\hskip\unitindent\small\SectFont\abstractname}%
992 \list{}{\setlength\listparindent{\unitindent}%
993 \setlength\parindent {\z@}%
994 \setlength\leftmargin {\unitindent}%

```




```

995             \setlength\rightmargin  {\unitindent}%
996             \setlength\parsep      {\z@}}%
997         \item[]%
998     \fi}
999     {\if@twocolumn\else\par\endlist\fi}
1000 \fi
1001 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1002 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1003 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1004 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1005 \renewcommand*\left@footnoterule{%
1006     \kern-3\p@
1007     \hrule\@width 3\unitindent
1008     \kern 2.6\p@
1009 }
1010 \renewcommand*\right@footnoterule{%
1011     \kern-3\p@
1012     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1013     \kern 2.6\p@}
1014 \renewenvironment{thebibliography}[1]
1015     {\section*\refname}%
1016     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1017     \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
1018     \bidi@thebibliography@font@hook%
1019     \list{\@biblabel{\@arabic\c@enumiv}}%
1020         {\settowidth\labelwidth{\@biblabel{#1}}%
1021         \leftmargin\labelwidth
1022         \advance\leftmargin\labelsep
1023         \@openbib@code
1024         \usecounter{enumiv}%
1025         \let\p@enumiv\@empty
1026         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1027     \sloppy\clubpenalty4000\widowpenalty4000%
1028     \sfcode`. \@m}
1029     {\def\@noitemerr
1030     {\@latex@warning{Empty `thebibliography' environment}}}%
1031     \endlist}
1032 \if@titlepage
1033 \renewcommand*\TitleFont{\rmfamily}
1034 \renewcommand*\maketitle{%
1035     \begin{titlepage}%
1036         \let\footnotesize\small
1037         \let\right@footnoterule\relax
1038         \let\left@footnoterule\relax
1039         \let\textwidth@footnoterule\relax
1040         \let \footnote \thanks
1041         \long\def\@makefnctext##1{\parindent\z@
1042             \def\labelitemi{\textendash}\@revlabeltrue
1043             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1044         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1045         \if@compatibility\setcounter{page}{0}\fi
1046         \null\vfil
1047         \vskip 60\p@
1048         \begin{center}%

```



```

1049 \TitleFont
1050 {\LARGE \def\{\{\penalty -\@M}
1051 \if@allcaps
1052 \expandafter\uc@nothanks\@title\thanks\relax
1053 \else
1054 \@title
1055 \fi\par}%
1056 \vskip 3em%
1057 {\large
1058 \lineskip .75em \parindent\z@
1059 \begin{tabular}[t]{c}%
1060 \if@allcaps
1061 \expandafter\uc@authornothanks\@author\and\relax
1062 \else
1063 \@author
1064 \fi
1065 \end{tabular}\par}%
1066 \vskip 1.5em%
1067 {\large
1068 \if@allcaps
1069 \uppercase\expandafter{\@date}%
1070 \else
1071 \@date
1072 \fi\par}%
1073 \end{center}\par
1074 \@thanks
1075 \vfil\null
1076 \end{titlepage}%
1077 \setcounter{footnote}{0}%
1078 \global\let\thanks\relax
1079 \global\let\maketitle\relax
1080 \global\let\@thanks\@empty
1081 \global\let\@author\@empty
1082 \global\let\@title\@empty
1083 \global\let\@date\@empty
1084 \global\let\title\relax
1085 \global\let\author\relax
1086 \global\let\date\relax
1087 \global\let\and\relax
1088 }
1089 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1090 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1091 \futurelet\@tempa\uc@ax}
1092 \def\uc@ax{%
1093 \ifx\@tempa\relax
1094 \else
1095 \ \ \andname \ \ \expandafter\uc@authornothanks
1096 \fi}
1097 \def\uc@tx{\ifx\@tempa\relax
1098 \else \expandafter\uc@ty \fi}
1099 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1100 \else
1101 \renewcommand*\maketitle{\par
1102 \begin{group

```



```

1103 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1104 \long\def\@makefntext##1{\parindent\z@
1105 \def\labelitemi{\textendash}%
1106 \leavevmode\hb@xt@.5\unitindent{%
1107 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1108 \if@twocolumn
1109 \ifnum \col@number=\@ne
1110 \@maketitle
1111 \else
1112 \twocolumn[\@maketitle]%
1113 \fi
1114 \else
1115 \newpage
1116 \global\@topnum\z@
1117 \@maketitle
1118 \fi
1119 \thispagestyle{plain}\@thanks
1120 \endgroup
1121 \setcounter{footnote}{0}%
1122 \global\let\thanks\relax
1123 \global\let\maketitle\relax
1124 \global\let\@maketitle\relax
1125 \global\let\@thanks\@empty
1126 \global\let\@author\@empty
1127 \global\let\@title\@empty
1128 \global\let\@date\@empty
1129 \global\let\title\relax
1130 \global\let\author\relax
1131 \global\let\date\relax
1132 \global\let\and\relax
1133 }
1134 \def\@maketitle{%
1135 \newpage
1136 \null
1137 \vskip 2em%
1138 \begin{center}%
1139 \let \footnote \thanks
1140 {\LARGE \TitleFont \@title \par}%
1141 \vskip 1.5em%
1142 {\large \TitleFont
1143 \lineskip .5em%
1144 \begin{tabular}[t]{c}%
1145 \@author
1146 \end{tabular}\par}%
1147 \vskip 1em%
1148 {\large \TitleFont \@date}%
1149 \end{center}%
1150 \par
1151 \vskip 1.5em}
1152 \fi

```

12 File artikel3-xetex-bidi.def

```

1153 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f

```



```

1154 \renewenvironment{theindex}{%
1155   \if@twocolumn
1156     \@restonecolfalse
1157   \else
1158     \@restonecoltrue
1159   \fi
1160   \columnseprule \z@
1161   \columnsep 35\p@
1162   \twocolumn[section*{\indexname}]%
1163   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1164   \thispagestyle{plain}\parindent\z@
1165   \parskip\z@ \@plus .3\p@\relax
1166   \let\item\@idxitem
1167 }{%
1168   \if@restonecol\onecolumn\else\clearpage\fi}
1169 \renewcommand*\head@style{%
1170   \interlinepenalty \@M
1171   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1172   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1173 \renewcommand*\@regtocline[3]{%
1174   \ifnum #1>\c@tocdepth
1175   \else
1176     \vskip\z@\@plus.2\p@
1177     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1178     \if@RTL\rightskip\else\leftskip\fi\unitindent
1179     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1180     \parfillskip\z@
1181     \@tempdima\unitindent
1182     \parindent\z@
1183     \leavevmode
1184     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1185     \hskip 1em \nobreak{\slshape #3}\par
1186   }%
1187   \fi}
1188 \if@oldtoc
1189 \renewcommand*\l@part[2]{%
1190   \ifnum \c@tocdepth >-2\relax
1191     \addpenalty\@secpenalty
1192     \addvspace{2.25em \@plus\p@}%
1193     \begingroup
1194       \setlength\@tempdima{3em}%
1195       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1196       \parfillskip -\@pnumwidth
1197       {\leavevmode
1198         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1199         \nobreak
1200         \if@compatibility
1201           \global\@nobreaktrue
1202           \everypar{\global\@nobreakfalse\everypar{}}%
1203         \fi
1204       \endgroup
1205   \fi}
1206 \else
1207   \renewcommand*\l@part{%

```



```

1208     \ifnum \c@tocdepth >-2\relax
1209     \addpenalty\@secpenalty
1210     \advvspace{2.25em \@plus \p@}%
1211     \@regtocline{0}%
1212     \fi}
1213 \fi
1214
1215 \if@oldtoc
1216 \renewcommand*\l@section[2]{%
1217     \addpenalty\@secpenalty
1218     \advvspace{1.0em \@plus \p@}%
1219     \setlength\@tempdima{1.5em}%
1220     \begingroup
1221     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1222     \parfillskip -\@pnumwidth
1223     \leavevmode \bfseries
1224     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1225     \hskip -\if@RTL\rightskip\else\leftskip\fi
1226     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1227     \endgroup}
1228 \else
1229     \renewcommand*\l@section{\@regtocline{1}}
1230 \fi
1231 \if@titlepage
1232     \renewenvironment{abstract}{%
1233         \titlepage
1234         \null\vfil
1235         \section*{\SectFont\abstractname}%
1236         \noindent\ignorespaces}
1237     {\par\vfil\null\endtitlepage}
1238 \else
1239     \renewenvironment{abstract}{%
1240         \if@twocolumn
1241             \section*{\abstractname}%
1242         \else
1243             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1244             \section*{\small\SectFont\abstractname}%
1245             \noindent\ignorespaces
1246         \fi}
1247     {\if@twocolumn\else\par\egroup\fi}
1248 \fi
1249 \renewcommand*\left@footnoterule{%
1250     \kern-3\p@
1251     \kern.5\baselineskip
1252     \hrule\@width\unitindent
1253     \kern.4\baselineskip
1254 }
1255 \renewcommand*\right@footnoterule{%
1256     \kern-3\p@
1257     \kern.5\baselineskip
1258     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1259     \kern.4\baselineskip}
1260 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1261 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

1262 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1263 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1264 \renewenvironment{thebibliography}[1]
1265     {\section*\refname}%
1266     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1267     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1268     \bidi@thebibliography@font@hook%
1269     \list{\@biblabel{\@arabic\c@enumiv}}%
1270         {\settowidth\labelwidth{\@biblabel{#1}}%
1271         \leftmargin\labelwidth
1272         \advance\leftmargin\labelsep
1273         \@openbib@code
1274         \usecounter{enumiv}}%
1275     \let\p@enumiv\@empty
1276     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1277     \sloppy\clubpenalty4000\widowpenalty4000%
1278     \sfcode\.\@m}
1279     {\def\@noitemerr
1280     {\@latex@warning{Empty `thebibliography' environment}}}%
1281     \endlist}
1282 \if@titlepage
1283 \renewcommand*\TitleFont{\rmfamily}
1284 \renewcommand*\maketitle{%
1285 \begin{titlepage}%
1286 \let\footnotesize\small
1287 \let\right@footnoterule\relax
1288 \let\left@footnoterule\relax
1289 \let\textwidth@footnoterule\relax
1290 \let \footnote \thanks
1291 \long\def\@makefntext##1{\parindent\z@
1292 \def\labelitemi{\textendash}\@revlabeltrue
1293 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1294 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1295 \if@compatibility\setcounter{page}{0}\fi
1296 \null\vfil
1297 \vskip 60\p@
1298 \begin{center}%
1299 \TitleFont
1300 {\LARGE \def\{\{\penalty -\@M}
1301 \if@allcaps
1302 \expandafter\uc@nothanks\@title\thanks\relax
1303 \else
1304 \@title
1305 \fi\par}%
1306 \vskip 3em%
1307 {\large
1308 \lineskip .75em \parindent\z@
1309 \begin{tabular}[t]{c}%
1310 \if@allcaps
1311 \expandafter\uc@authornothanks\@author\and\relax
1312 \else
1313 \@author
1314 \fi
1315 \end{tabular}\par}%

```



```

1316     \vskip 1.5em%
1317     {\large
1318     \if@allcaps
1319     \uppercase\expandafter{\@date}%
1320     \else
1321     \@date
1322     \fi\par}%
1323     \end{center}\par
1324     \@thanks
1325     \vfil\null
1326 \end{titlepage}%
1327 \setcounter{footnote}{0}%
1328 \global\let\thanks\relax
1329 \global\let\maketitle\relax
1330 \global\let\@thanks\@empty
1331 \global\let\@author\@empty
1332 \global\let\@title\@empty
1333 \global\let\@date\@empty
1334 \global\let\title\relax
1335 \global\let\author\relax
1336 \global\let\date\relax
1337 \global\let\and\relax
1338 }
1339 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1340 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1341     \futurelet\@tempa\uc@ax}
1342 \def\uc@ax{%
1343     \ifx\@tempa\relax
1344     \else
1345     \ \andname \ \ \expandafter\uc@authornothanks
1346     \fi}
1347 \def\uc@tx{\ifx\@tempa\relax
1348     \else \expandafter\uc@ty \fi}
1349 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1350 \else
1351 \renewcommand*\maketitle{\par
1352     \begingroup
1353     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1354     \def\@makefnmark{\rlap{%
1355     \@textsuperscript{\normalfont\@thefnmark}}}%
1356     \long\def\@makefntext{\@xmakefntext{%
1357     \@textsuperscript{\normalfont\@thefnmark}}}%
1358     \if@twocolumn
1359     \ifnum \col@number=\@ne
1360     \@maketitle
1361     \else
1362     \twocolumn[\@maketitle]%
1363     \fi
1364     \else
1365     \newpage
1366     \global\@topnum\z@
1367     \@maketitle
1368     \fi
1369     \thispagestyle{plain}\@thanks

```



```

1370 \endgroup
1371 \setcounter{footnote}{0}%
1372 \global\let\thanks\relax
1373 \global\let\maketitle\relax
1374 \global\let\@maketitle\relax
1375 \global\let\@thanks\@empty
1376 \global\let\@author\@empty
1377 \global\let\@title\@empty
1378 \global\let\@date\@empty
1379 \global\let\title\relax
1380 \global\let\author\relax
1381 \global\let\date\relax
1382 \global\let\and\relax
1383 }
1384 \def\@maketitle{%
1385   \newpage
1386   \null
1387   \vskip 2em%
1388   \if@titlecentered
1389     \begin{center}%
1390       \let \footnote \thanks
1391       {\LARGE \TitleFont \@title \par}%
1392       \vskip 1.5em%
1393       {\large \TitleFont
1394         \lineskip .5em%
1395         \begin{tabular}[t]{c}%
1396           \@author
1397         \end{tabular}\par}%
1398       \vskip 1em%
1399       {\large \TitleFont \@date}%
1400     \end{center}%
1401   \else
1402     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1403     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1404       \def\and{%%} \begin{tabular} has already started
1405         \end{tabular}\hskip 1em plus .17fil
1406         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1407         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
1408       \vskip 1em {\large \TitleFont \@date}
1409   \fi
1410   \par
1411   \vskip 1.5em}
1412 \fi

```

13 File arydshln-xetex-bidi.def

```

1413 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1414 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1415 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1416 \expandafter\let\csname endtabular*\endcsname\endtabular
1417 \let\adl@array\@array
1418 \def\@array{\adl@everyvbox\everyvbox
1419   \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1420   \ifadl@inactive \adl@inactivate \else \adl@activate \fi

```




```

1421         \let\adl@noalign\noalign
1422         \adl@array}
1423 \ifadl@usingarypkg
1424 \def\@testpach{\@chclass
1425 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1426 \ifnum \@lastchclass=7 5 \else
1427 \ifnum \@lastchclass=8 \tw@ \else
1428 \ifnum \@lastchclass=9 \thr@@
1429 \else \z@
1430 \ifnum \@lastchclass = 10 \else
1431 \edef\@nextchar{\expandafter\string\@nextchar}%
1432 \@chnum
1433 \if \@nextchar c\z@ \else
1434 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1435 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1436 \z@ \@chclass
1437 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1438 \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1439 \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1440 \if \@nextchar !6 \else
1441 \if \@nextchar @7 \else
1442 \if \@nextchar <8 \else
1443 \if \@nextchar >9 \else
1444 10
1445 \@chnum
1446 \if \@nextchar m\thr@@\else
1447 \if \@nextchar p4 \else
1448 \if \@nextchar b5 \else
1449 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1450 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1451
1452 \def\@classz{\@classx
1453 \@tempcnta \count@
1454 \prepnext@tok
1455 \@addtopreamble{\ifcase \@chnum
1456 \hfil
1457 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1458 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1459 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1460 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1461 \adl@endmbox\or
1462 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1463 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1464 \fi}\prepnext@tok}
1465 \def\adl@class@start{4}
1466 \def\adl@class@iiiorvii{7}
1467
1468 \else
1469 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1470 \ifnum \@lastchclass=\thr@@ 5\relax \else
1471 \z@ \if #1c\@chnum \z@ \else
1472 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1473 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1474 \@chclass

```



```

1475         \if #1\@ne \let\@arrayrule\adl@arrayrule \else
1476         \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1477         \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1478         \if #1\@tw@ \else
1479         \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1480     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1481
1482 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1483     \or \or \@addamp \or
1484     \@acolampacol \or \@firstampfalse \@acol \fi
1485     \edef\@preamble{\@preamble
1486     \ifcase \@chnum
1487     \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1488     \or \adl@putlrc{\$relax\@sharp$}\hfil
1489     \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1490 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1491     \or \or \@addamp \or
1492     \@acolampacol \or \@firstampfalse \@acol \fi
1493     \edef\@preamble{\@preamble
1494     \ifcase \@chnum
1495     \hfil\adl@putlrc{\@sharp\unskip}\hfil
1496     \or \adl@putlrc{\@sharp\unskip}\hfil
1497     \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1498 \def\adl@class@start{6}
1499 \def\adl@class@iiiorvii{3}
1500 \fi
1501 \ApplyPatchCodeToPackage{colortbl}{%
1502 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1503 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1504     \let\@endpbox\adl@org@endpbox}
1505 \let\adl@CT@setup\CT@setup
1506 \def\CT@setup{\adl@CT@setup
1507     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1508     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1509     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1510 \let\adl@act@CT@setup\CT@setup
1511 \def\@classz{\@classx
1512     \@tempcnta\count@ \prepnext@tok
1513     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1514     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1515     \expandafter\adl@extract@drsc
1516     \the\toks\@tempcnta\doublerulesepcolor!\@nil
1517     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1518     \@addtopreamble{\if@RTL\beginL\fi%
1519     \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1520     \ifcase \@chnum
1521     \hskip\stretch{.5}\kern\z@
1522     \dollarbegin
1523     \insert@column
1524     \dollarend\hskip\stretch{.5}%
1525     \or \dollarbegin \insert@column \dollarend \hfill
1526     \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1527     \or $\vcenter
1528     \@startpbox{\@nextchar}\insert@column \@endpbox $%

```



```

1529         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1530         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1531         \fi
1532         \if@RTL\endR\fi\egroup\egroup
1533         \begin@group
1534             \CT@setup
1535             \CT@column@color
1536             \CT@row@color
1537             \CT@cell@color
1538             \CT@do@color
1539         \end@group
1540         \@tempdima\ht\z@
1541         \advance\@tempdima\minrowclearance
1542         \vrule\@height\@tempdima\@width\z@
1543         \unhbox\z@\if@RTL\endL\fi}%
1544     \prepnext@tok}
1545 \let\adl@act@classz\@classz
1546 \let\adl@org@classz\@classz
1547 }

```

14 File beamer-xetex-bidi.def

```

1548 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for X
1549 \AtBeginDocument{%
1550     \if@RTLmain
1551         \raggedleft
1552     \else
1553         \raggedright
1554     \fi
1555 }
1556
1557 \renewcommand*{\bidi@beamer@ragged}{%
1558     \if@RTL
1559         \raggedleft
1560     \else
1561         \raggedright
1562     \fi
1563 }
1564
1565

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1566 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1567 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1568
1569 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1570
1571 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1572
1573 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1576

```



```

1577 \defbeamertemplate{subsection in toc}{sections numbered}
1578 {\leavevmode\ bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1579
1580 \defbeamertemplate{subsubsection in toc}{sections numbered}
1581 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\ bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}%
1582 \inserttocsubsubsection\par}
1583
1584 \defbeamertemplate{section in toc}{subsections numbered}
1585 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsection\par}
1586
1587 \defbeamertemplate{subsection in toc}{subsections numbered}
1588 {\leavevmode\ bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}%
1589 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1590 {\leavevmode\normalsize\usebeamerfont{subsection in
1591 toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1592 \inserttocsubsubsection\par}
1593
1594
1595 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1596
1597 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1598
1599 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1600
1601 \defbeamertemplate{section in toc}{circle}
1602 {\leavevmode\ bidi@beamer@leftskip=2ex%
1603 \llap{%
1604 \usebeamerfont*{section number projected}%
1605 \usebeamerfont{section number projected}%
1606 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1607 \color{bg}
1608 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1609 \pgfusepath{fill}
1610 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1611 \end{pgfpicture}\kern1.25ex%
1612 }%
1613 \inserttocsection\par}
1614
1615 \defbeamertemplate{subsection in toc}{circle}
1616 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsubsection\par}
1617
1618 \defbeamertemplate{subsubsection in toc}{circle}
1619 {\leavevmode\normalsize\usebeamerfont{subsection in
1620 toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1621 \inserttocsubsubsection\par}
1622
1623 \bidi@csundef{beamer@@tmpop@section in toc@square}
1624
1625 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1626
1627 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1628
1629 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1630

```



```

1631 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1632
1633 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1636
1637 \defbeamertemplate{section in toc}{square}
1638 {\leavevmode\bidi@beamer@leftskip=3ex%
1639  \llap{%
1640   \usebeamerfont*{section number projected}%
1641   \usebeamercolor[bg]{section number projected}%
1642   \if@RTL
1643   \else
1644     \vrule width2.25ex height1.85ex depth.4ex%
1645     \hskip-2.25ex%
1646   \fi
1647   \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1648   \if@RTL
1649     \hskip-2.25ex%
1650     \vrule width2.25ex height1.85ex depth.4ex%
1651   \fi
1652   }\kern1.25ex}%
1653 \inserttocsection\par}
1654
1655 \defbeamertemplate{subsection in toc}{square}
1656 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1657   \usebeamercolor[bg]{subsection number projected}%
1658   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1659
1660 \defbeamertemplate{subsubsection in toc}{square}
1661 {\leavevmode\normalsize\usebeamerfont{subsection in
1662  toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1663  \llap{%
1664   \usebeamercolor[bg]{subsubsection number projected}%
1665   \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1666
1667 \defbeamertemplate{enumerate item}{square}
1668 {
1669  \hbox{%
1670   \usebeamerfont*{item projected}%
1671   \usebeamercolor[bg]{item projected}%
1672   \if@RTL
1673   \else
1674     \vrule width2.25ex height1.85ex depth.4ex%
1675     \hskip-2.25ex%
1676   \fi
1677   \hbox to2.25ex{%
1678     \hfil%
1679     \color{fg}\insertenumlabel%
1680     \hfil}}%
1681   \if@RTL
1682     \hskip-2.25ex%
1683     \vrule width2.25ex height1.85ex depth.4ex%
1684   \fi

```



```

1685 }}%
1686 }
1687 [action]
1688 {\setbeamerfont{item projected}{size=\scriptsize}}
1689
1690 \defbeamertemplate{enumerate subitem}{square}
1691 {
1692   \hbox{%
1693     \usebeamerfont*{subitem projected}%
1694     \usebeamercolor[bg]{subitem projected}%
1695     \if@RTL
1696     \else
1697       \vrule width2.25ex height1.85ex depth.4ex%
1698       \hskip-2.25ex%
1699     \fi
1700     \hbox to2.25ex{%
1701       \hfil%
1702       \color{fg}\insertsubenumlabel%
1703       \hfil}}%
1704     \if@RTL
1705       \hskip-2.25ex%
1706       \vrule width2.25ex height1.85ex depth.4ex%
1707     \fi
1708   }}%
1709 }
1710
1711 \defbeamertemplate{enumerate subsubitem}{square}
1712 {
1713   \hbox{%
1714     \usebeamerfont*{subitem projected}%
1715     \usebeamercolor[bg]{subsubitem projected}%
1716     \if@RTL
1717     \else
1718       \vrule width2.25ex height1.85ex depth.4ex%
1719       \hskip-2.25ex%
1720     \fi
1721     \hbox to2.25ex{%
1722       \hfil%
1723       \color{fg}\insertsubsubenumlabel%
1724       \hfil}}%
1725     \if@RTL
1726       \hskip-2.25ex%
1727       \vrule width2.25ex height1.85ex depth.4ex%
1728     \fi
1729   }}%
1730 }
1731
1732 \defbeamertemplate{enumerate mini template}{square}
1733 {
1734   \hbox{%
1735     \usebeamerfont*{\beameritemnestingprefix item projected}%
1736     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1737     \if@RTL
1738     \else

```



```

1739     \vrule width2.25ex height1.85ex depth.4ex%
1740     \hskip-2.25ex%
1741     \fi
1742     \hbox to2.25ex{%
1743     \hfil%
1744     \color{fg}\insertenumlabel%
1745     \hfil}}%
1746     \if@RTL
1747     \hskip-2.25ex%
1748     \vrule width2.25ex height1.85ex depth.4ex%
1749     \fi
1750 }}%
1751 }
1752
1753 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1754
1755 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1756
1757 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1758
1759 \defbeamer@template{section in toc}{ball unnumbered}
1760 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1761  \llap{%
1762   \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1763  \inserttocsection\par}
1764
1765 \defbeamer@template{subsection in toc}{ball unnumbered}
1766 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1767   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1768
1769 \defbeamer@template{subsubsection in toc}{ball unnumbered}
1770 {\leavevmode\normalsize\usebeamerfont{subsection in
1771  toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1772  \llap{%
1773   \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1774
1775 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1776
1777 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1778
1779 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1780
1781 \defbeamer@template{section in toc}{ball}
1782 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1783  \llap{%
1784   \normalsize%
1785   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1786   \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1787   \pgftext{%
1788     \usebeamerfont*{section number projected}%
1789     \usebeamerfont*{section number projected}%
1790     \color{fg!90!bg}%
1791     \inserttocsectionnumber}
1792   \end{pgfpicture}%

```



```

1793     \kern1.25ex}%
1794 \inserttocsection\par
1795 }
1796 [action]
1797 {\setbeamerfont{section number projected}{size=\scriptsize}}
1798
1799 \defbeamertemplate{subsection in toc}{ball}
1800 {\leavevmode\ bidi@beamer@leftskip=5ex%
1801  \llap{\raise0.1ex\ beamer@usesphere{subsection number projected}{bigsphere}\ kern1ex}%
1802  \inserttocsubsection\par%
1803 }
1804
1805 \defbeamertemplate{subsubsection in toc}{ball}
1806 {\leavevmode\normalsize\ usebeamerfont{subsection in
1807   toc}\ bidi@beamer@leftskip=7ex\ usebeamerfont{subsubsection in toc}%
1808  \llap{\ beamer@usesphere{subsubsection number projected}{bigsphere}\ kern0.75ex}%
1809  \inserttocsubsubsection\par%
1810 }
1811
1812 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1813
1814 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1815
1816 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1817
1818 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1819 {%
1820  \par\vskip\medskipamount%
1821  \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1822    {\raggedright\ usebeamerfont*{block title}\ insertblocktitle}%
1823    \bidi@beamer@ragged%
1824    \usebeamerfont{block body}%
1825  }%
1826
1827 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1828 {%
1829  \par\vskip\medskipamount%
1830  \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1831    {\raggedright\ usebeamerfont*{block title alerted}\ insertblocktitle}%
1832    \bidi@beamer@ragged%
1833    \usebeamerfont{block body alerted}%
1834  }%
1835
1836 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1837 {%
1838  \par\vskip\medskipamount%
1839  \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1840    {\raggedright\ usebeamerfont*{block title example}\ insertblocktitle}%
1841    \bidi@beamer@ragged%
1842    \usebeamerfont{block body example}%
1843  }%
1844
1845 \bidi@csundef{beamer@@tmpop@caption@numbered}
1846

```




```

1847 \defbeamertemplate{caption}{numbered}
1848 {%
1849   \leavevmode
1850   \bidi@beamer@ragged
1851   {%
1852     \usebeamercolor[fg]{caption name}%
1853     \usebeamerfont*{caption name}%
1854     \insertcaptionname~\insertcaptionnumber
1855     \usebeamertemplate{caption label separator}%
1856   }%
1857   \insertcaption\par
1858 }
1859
1860 \bidi@csundef{beamer@tmpop@caption@caption name own line}
1861
1862 \defbeamertemplate{caption}{caption name own line}
1863 {%
1864   \begin{minipage}{\textwidth}
1865     \leavevmode
1866     \bidi@beamer@ragged
1867     {%
1868       \usebeamercolor[fg]{caption name}%
1869       \usebeamerfont*{caption name}%
1870       \insertcaptionname%
1871     }\\
1872     \insertcaption
1873   \end{minipage}
1874 }
1875
1876 \ApplyPatchCodeToPackage{caption}{%
1877   \DeclareCaptionFont{beamer@font}{%
1878     \usebeamerfont*{caption}%
1879   }%
1880 }
1881 \SetCaptionDefault{font}{beamer@font}
1882 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1883 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1884 }
1885

```

16 File beamerbaseboxes-xetex-bidi.def

```

1886 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1887 \renewcommand\beamerboxesrounded[2] []{%
1888   \global\let\beamer@firstlineitemizeunskip=\relax%
1889   \vbox\bgroup%
1890   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1891   \setkeys{beamerboxes}{#1}%
1892   {%
1893     \usebeamercolor{\bmb@lower}%
1894     \globalcolorstrue%
1895     \colorlet{lower.bg}{bg}%
1896   }%
1897   {%

```



```

1898 \usebeamercolor{\bmb@upper}%
1899 \globalcolorstrue%
1900 \colorlet{upper.bg}{bg}%
1901 }%
1902 %
1903 % Typeset head
1904 %
1905 \vskip4bp
1906 \setbox\bmb@box=\hbox{%
1907 \begin{minipage}[b]{\bmb@width}%
1908 \usebeamercolor[fg]{\bmb@upper}%
1909 #2%
1910 \end{minipage}}%
1911 \ifdim\wd\bmb@box=0pt%
1912 \setbox\bmb@box=\hbox{%
1913 \ht\bmb@box=1.5pt%
1914 \bmb@prevheight=-4.5pt%
1915 \else%
1916 \wd\bmb@box=\bmb@width%
1917 \bmb@temp=\dp\bmb@box%
1918 \ifdim\bmb@temp<1.5pt%
1919 \bmb@temp=1.5pt%
1920 \fi%
1921 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1922 \dp\bmb@box=0pt%
1923 \bmb@prevheight=\ht\bmb@box%
1924 \fi%
1925 \bmb@temp=\bmb@width%
1926 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1927 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1928 \hbox{%
1929 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1930 \ifdim\wd\bmb@box=0pt%
1931 \color{lower.bg}%
1932 \else%
1933 \color{upper.bg}%
1934 \fi%
1935 \pgfpathmoveto{-4bp}{-1bp}
1936 \pgfpathcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1937 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1938 \pgfpathcurveto%
1939 {\pgfpoint{\bmb@dima}{3bp}}%
1940 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1941 {\pgfpoint{\bmb@dimb}{-1bp}}%
1942 \bmb@dima=-\ht\bmb@box%
1943 \advance\bmb@dima by-2pt%
1944 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1945 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1946 \pgfusepath{fill}
1947 \end{pgfpicture}%
1948 \copy\bmb@box%
1949 }%
1950 \nointerlineskip%
1951 \vskip-1pt%

```



```

1952 \ifdim\wd\bmb@box=0pt%
1953 \else%
1954 \hbox{%
1955   \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1956     \bmb@dima=\bmb@width%
1957     \advance\bmb@dima by8bp%
1958     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1959     \pgfusepath{clip}
1960     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1961   \end{pgfpicture}%
1962 }%
1963 \nointerlineskip%
1964 \vskip-0.5pt%
1965 \fi%
1966 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1967 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1968   \vskip2pt%
1969   \usebeamercolor[fg]{\bmb@lower}%
1970   \colorlet{beamerstructure}{upper.bg}%
1971   \colorlet{structure}{upper.bg}%
1972   %\color{.}%
1973   \@bidi@list@minipage@parboxfalse
1974 }
1975
1976 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1977   \begingroup
1978   \@RTLfalse
1979 }{}{}
1980
1981

```

17 File beamerbasecolor-xetex-bidi.def

```

1982 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1983 \renewenvironment{beamercolorbox}[2] [] {%
1984   \def\beamer@vmode{\leavevmode}%
1985   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1986     leftskip=0pt,rightskip=0pt plus1fil,%
1987     sep=0pt,colsep=0pt,colsep*=0pt,%
1988     shadow=false,rounded=false,ignorebg=false}%
1989   \if@RTL
1990     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1991   \else
1992     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1993   \fi
1994   \setkeys{beamercolbox}{#1}%
1995   \ifbeamercolorempy[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1996   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1997   \def\beamer@colbox@color{#2}%
1998   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1999     \ifbeamer@colbox@ignorebg%
2000       \colorlet{beamer@temp@color}{bg}%
2001       \usebeamercolor[fg]{#2}%
2002       \colorlet{bg}{beamer@temp@color}%

```



```

2003 \else%
2004 \usebeamercolor[fg]{#2}%
2005 \fi%
2006 \beginL
2007 \vbox\bgroup%
2008 \hsize=\beamer@colbox@wd%
2009 \@arrayparboxrestore%
2010 \leftskip=\beamer@colbox@ls%
2011 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2012 \rightskip=\beamer@colbox@rs%
2013 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2014 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2015 \advance\leftskip by\beamer@colbox@colsep%
2016 \advance\rightskip by\beamer@colbox@colsep%
2017 \vskip\beamer@colbox@colsep%
2018 \fi%
2019 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2020 \fi%
2021 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2022 \beamer@vmode\ignorespaces}{%
2023 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2024 \if@tempswa
2025 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2026 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2027 \fi%
2028 \egroup\endL\color@endgroup\egroup%
2029 \wd\beamer@tempbox=\beamer@colbox@wd%
2030 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2031 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2032 \ifbeamer@colbox@rounded%
2033 \if@tempswa%
2034 \begin{beamerboxesrounded}[%
2035 shadow=\beamer@colbox@shadow,%
2036 lower=\beamer@colbox@color,%
2037 upper=normal text,%
2038 width=\beamer@colbox@wd]{}%
2039 \box\beamer@tempbox%
2040 \end{beamerboxesrounded}%
2041 \else%
2042 \ifdim\wd\beamer@tempbox>\textwidth%
2043 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2044 \fi%
2045 \box\beamer@tempbox%
2046 \fi%
2047 \else%
2048 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2049 \usebeamercolor{\beamer@colbox@color}%
2050 \hskip-\beamer@colbox@colseps%
2051 \fboxsep=\z@\colorbox{bg}{%
2052 \hskip\beamer@colbox@colseps%
2053 \box\beamer@tempbox%
2054 \hskip\beamer@colbox@colseps%
2055 }%
2056 \hskip-\beamer@colbox@colseps%

```



```

2057     }\fi%
2058     \ifdim\wd\beamer@tempbox>\textwidth%
2059         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2060         \fi%
2061     \box\beamer@tempbox%
2062 \fi%
2063 }
2064
2065

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2066 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2067 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2068
2069

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2070 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2071 \renewcommand{\setbeamer-size}[1]{%
2072     \beamer@dogeometryfalse%
2073     \setkeys{beamer@margin}{#1}%
2074     \ifbeamer@dogeometry%
2075         % Reset left margin now
2076         \beamer@tempdim=\beamer@leftmargin%
2077         \advance\beamer@tempdim by\beamer@leftsidebar%
2078         \if@RTLmain
2079             \geometry{right=\the\beamer@tempdim}%
2080         \else
2081             \geometry{left=\the\beamer@tempdim}%
2082         \fi
2083         % Reset right margin now
2084         \beamer@tempdim=\beamer@rightmargin%
2085         \advance\beamer@tempdim by\beamer@rightsidebar%
2086         \if@RTLmain
2087             \geometry{left=\the\beamer@tempdim}%
2088         \else
2089             \geometry{right=\the\beamer@tempdim}%
2090         \fi
2091     \fi%
2092 }
2093
2094 \newcommand*\bidi@beamer@Gm@lmargin}{%
2095     \if@RTLmain
2096         \Gm@rmargin
2097     \else
2098         \Gm@lmargin
2099     \fi
2100 }
2101
2102 \newcommand*\bidi@beamer@Gm@rmargin}{%
2103     \if@RTLmain
2104         \Gm@lmargin

```



```

2105 \else
2106   \Gm@rmargin
2107 \fi
2108 }
2109
2110 \def\ps@navigation{
2111   \def\@oddhead{%
2112     \begingroup%
2113     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2114     \beamer@tempdim=\ht\beamer@tempbox%
2115     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2116     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2117     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2118     \beamer@tempdim=\ht\@tempboxa%
2119     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2120     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2121     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}}%
2122     \hbox{%
2123       {%
2124         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2125         \if@RTLmain
2126           {%
2127             \vbox to \sidebarheight{%
2128               \usebeamertemplate***{sidebar left}%
2129               \vfil%
2130             }}%
2131             \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2132               \hskip-\textwidth
2133             }%
2134             \fi
2135             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2136               \usebeamercolor*{sidebar left}%
2137               \usebeamertemplate{sidebar canvas left}%
2138               \vss%
2139             }}%
2140             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2141             \box\beamer@tempbox}%
2142             \if@RTLmain
2143             \else
2144             {%
2145               \vbox to \sidebarheight{%
2146                 \usebeamertemplate***{sidebar left}%
2147                 \vfil%
2148               }}\fi}%
2149             \beamer@tempdim=\ht\beamer@tempbox%
2150             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2151             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2152             \box\beamer@tempbox%
2153           }%
2154           {% print right sidebar first, since it should be overwritten by headline
2155             \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2156             \if@RTLmain
2157               {%
2158                 \vbox to \sidebarheight{%

```



```

2159         \usebeamertemplate***{sidebar right}%
2160         \vfil%
2161     }}%
2162     \hskip-\textwidth
2163     \fi
2164     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2165         \usebeamercolor*{sidebar right}%
2166         \usebeamertemplate{sidebar canvas right}%
2167         \vss%
2168     }}%
2169     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2170     \box\beamer@tempbox}%
2171     \if@RTLmain
2172     \else
2173     {%
2174     \vbox to \sidebarheight{%
2175     \usebeamertemplate***{sidebar right}%
2176     \vfil%
2177     }}\fi}%
2178     \beamer@tempdim=\ht\beamer@tempbox%
2179     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2180     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2181     \box\beamer@tempbox%
2182     }%
2183     \beamer@typesetheadorfoot{headline}%
2184     }%
2185     \hfil}%
2186     \endgroup}
2187     \def\@oddfoot{%
2188     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}}}%
2189     \hfil}\hbox{}}\hfil
2190     }%
2191     \let\@evenhead\@oddhead
2192     \let\@evenfoot\@oddfoot}
2193
2194 \AtBeginDocument{%
2195     \pagestyle{navigation}%
2196 }
2197
2198 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2199     {\parskip0pt\offinterlineskip%
2200     \hbox{%
2201     \hskip-\bidi@beamer@Gm@lmargin%
2202     \hbox{%
2203     \vbox{%
2204     \@tempdima=\textwidth%
2205     \textwidth=\paperwidth%
2206     \hsize=\textwidth%
2207     \def\{,%}%
2208     \usebeamertemplate***{#1}%
2209     }}%
2210     \hskip-\bidi@beamer@Gm@rmargin%
2211     }}\hfil%
2212 }

```



```

2213
2214 \def\ps@empty{%
2215   \let\@mkboth\@gobbletwo%
2216   \def\@oddhead{\begingroup%
2217     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2218     \beamer@tempdim=\ht\beamer@tempbox%
2219     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2220     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2221     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2222     \beamer@tempdim=\ht\@tempboxa%
2223     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2224     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2225     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\
2226     \endgroup%
2227   }
2228   \def\@oddfoot{\normalcolor\hfil%
2229     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beame
2230     \ht\beamer@tempbox=0pt%
2231     \dp\beamer@tempbox=0pt%
2232     \box\beamer@tempbox}}
2233   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2234
2235 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2236   \beamer@colclose\def\beamer@colclose{}%
2237   \begin{actionenv}#3%
2238     \setkeys{beamer@col}{#1}%
2239     \begin{minipage}[\beamer@colalign]{#2}%
2240       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2241     {\end{minipage}\hfill\end{actionenv}}\@ignoretrue}
2242 \let\endcolumn\endbeamer@columnenv
2243
2244 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2245   \beamer@colclose%
2246   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2247   \begin{actionenv}#3%
2248     \setkeys{beamer@col}{#1}%
2249     \begin{minipage}[\beamer@colalign]{#2}%
2250       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2251
2252 \renewenvironment<>{columns}[1][ ]{%
2253   \begin{actionenv}#2%
2254   \ifbeamer@onlytextwidth
2255     \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2256     \def\beamer@colexitcode{\unskip\egroup}
2257   \else%
2258     \def\beamer@colentrycode{%
2259       \hbox to\textwidth\bgroup%
2260       \leavevmode%
2261       \hskip-\beamer@leftmargin%
2262       \nobreak%
2263       \beamer@tempdim=\textwidth%
2264       \advance\beamer@tempdim by\beamer@leftmargin%
2265       \advance\beamer@tempdim by\beamer@rightmargin%
2266       \hbox to\beamer@tempdim\bgroup%

```




```

2267     \hbox{}\hfill\ignorespaces}%
2268     \def\beamer@colexitcode{\egroup%
2269     \nobreak%
2270     \hskip-\beamer@rightmargin\egroup}%
2271 \fi%
2272 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2273 \setkeys{beamer@col}{#1}%
2274 \par%
2275 \leavevmode
2276 \beamer@colentrycode%
2277 \def\beamer@colclose{}\ignorespaces}%
2278 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2279
2280
2281 \def\@makeRTLfntext#1{%
2282   \def\insertfootnotetext{#1}%
2283   \def\insertfootnotemark{\@makefnmark}%
2284   \usebeamertemplate***{RTLfootnote}}
2285
2286 \def\@makeLTRfntext#1{%
2287   \def\insertfootnotetext{#1}%
2288   \def\insertfootnotemark{\@makefnmark}%
2289   \usebeamertemplate***{LTRfootnote}}
2290
2291 \renewcommand<>\beamer@framefootnotetext[1]{%
2292   \global\setbox\beamer@footins\vbox{%
2293     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2294     \hsize\framewidth
2295     \textwidth\hsize
2296     \columnwidth\hsize
2297     \unvbox\beamer@footins
2298     \reset@font
2299     \bidi@@footnotetext@font
2300     \@parboxrestore
2301     \protected@edef\@currentlabel
2302       {\csname p@footnote\endcsname\@thefnmark}%
2303     \color@begingroup
2304     \uncover#2{\@makefntext{%
2305       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2306     \color@endgroup}}
2307
2308 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2309   \global\setbox\beamer@footins\vbox{%
2310     \@RTLtrue
2311     \hsize\framewidth
2312     \textwidth\hsize
2313     \columnwidth\hsize
2314     \unvbox\beamer@footins
2315     \reset@font
2316     \bidi@@RTLfootnotetext@font
2317     \@parboxrestore
2318     \protected@edef\@currentlabel
2319       {\csname p@footnote\endcsname\@thefnmark}%
2320     \color@begingroup

```



```

2321     \uncover#2{\@makeRTLfnfntext{%
2322         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2323     \color@endgroup}}
2324
2325 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2326     \global\setbox\beamer@footins\vbox{%
2327         \RTLfalse
2328         \hsize\framewidth
2329         \textwidth\hsize
2330         \columnwidth\hsize
2331         \unvbox\beamer@footins
2332         \reset@font
2333         \bidi@LTRfootnotetext@font
2334         \@parboxrestore
2335         \protected@edef\@currentlabel
2336             {\csname p@footnote\endcsname\@thefnmark}%
2337         \color@begingroup
2338         \uncover#2{\@makeLTRfnfntext{%
2339             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2340         \color@endgroup}}
2341
2342 \renewcommand<>\mpfootnotetext[1]{%
2343 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnotetext
2344     \global\setbox\@mpfootins\vbox{%
2345         \unvbox\@mpfootins
2346         \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2347         \reset@font
2348         \bidi@footnotetext@font
2349         \hsize\columnwidth
2350         \@parboxrestore
2351         \protected@edef\@currentlabel
2352             {\csname p@mpfootnote\endcsname\@thefnmark}%
2353         \color@begingroup
2354         \uncover#2{\@makefnfntext{%
2355             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2356         \color@endgroup}}
2357
2358 \renewcommand<>\mpRTLfootnotetext[1]{%
2359 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnotetext\right@footnotetext
2360     \global\setbox\@mpfootins\vbox{%
2361         \unvbox\@mpfootins
2362         \RTLtrue
2363         \reset@font
2364         \bidi@RTLfootnotetext@font
2365         \hsize\columnwidth
2366         \@parboxrestore
2367         \protected@edef\@currentlabel
2368             {\csname p@mpfootnote\endcsname\@thefnmark}%
2369         \color@begingroup
2370         \uncover#2{\@makeRTLfnfntext{%
2371             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2372         \color@endgroup}}
2373
2374 \renewcommand<>\mpLTRfootnotetext[1]{%

```



```

2375 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\ bidi@mpfootnoterule\left@footnot
2376 \global\setbox\@mpfootins\vbox{%
2377 \unvbox\@mpfootins
2378 \@RTLfalse
2379 \reset@font
2380 \bidi@LTRfootnotetext@font
2381 \hsize\columnwidth
2382 \@parboxrestore
2383 \protected@edef\@currentlabel
2384 {\csname p@mpfootnote\endcsname\@thefnmark}%
2385 \color@begingroup
2386 \uncover#2{\@makeLTRfntext{%
2387 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2388 \color@endgroup}}
2389
2390 \let\@footnotetext=\beamer@framefootnotetext
2391 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2392 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2393
2394 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2395 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2396 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2397
2398 \renewcommand<>{\footnote}[1][ ]{%
2399 \let\beamer@footnotetext=\@footnotetext%
2400 \let\beamer@mpfn=\@mpfn%
2401 \let\beamer@thempfn=\thempfn%
2402 \let\beamer@kvorig=\KV@errx%
2403 \let\beamer@xkvorig=\XKV@err
2404 \def\beamer@footarg{}%
2405 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2406 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2407 \setkeys{beamerfootnote}{#1}%
2408 \let\KV@errx=\beamer@kvorig%
2409 \let\XKV@errx=\beamer@xkvorig%
2410 \ifx\beamer@footarg\@empty%
2411 \def\beamer@next{\stepcounter\beamer@mpfn
2412 \protected@xdef\@thefnmark{\beamer@thempfn}%
2413 \@footnotemark\beamer@footnotetext#2}%
2414 \else%
2415 \def\beamer@next{%
2416 \begingroup
2417 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2418 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2419 \endgroup
2420 \@footnotemark\beamer@footnotetext#2}%
2421 \fi%
2422 \beamer@next}
2423
2424 \renewcommand<>{\RTLfootnote}[1][ ]{%
2425 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2426 \let\beamer@mpfn=\@mpfn%
2427 \let\beamer@thempfn=\thempfn%
2428 \let\beamer@kvorig=\KV@errx%

```



```

2429 \let\beamer@xkvorig=\XKV@err
2430 \def\beamer@footarg{}%
2431 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2432 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2433 \setkeys{beamerfootnote}{#1}%
2434 \let\KV@errx=\beamer@kvorig%
2435 \let\XKV@errx=\beamer@xkvorig%
2436 \ifx\beamer@footarg\@empty%
2437   \def\beamer@next{\stepcounter\beamer@mpfn
2438     \protected@xdef\@thefnmark{\beamer@thempfn}%
2439     \@footnotemark\beamer@RTLfootnotetext#2}%
2440 \else%
2441   \def\beamer@next{%
2442     \begingroup
2443       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2444       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2445     \endgroup
2446     \@footnotemark\beamer@RTLfootnotetext#2}%
2447 \fi%
2448 \beamer@next}
2449
2450 \renewcommand<>{\LTRfootnote}[1][ ]{%
2451   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2452   \let\beamer@mpfn=\@mpfn%
2453   \let\beamer@thempfn=\@thempfn%
2454   \let\beamer@kvorig=\KV@errx%
2455   \let\beamer@xkvorig=\XKV@err
2456   \def\beamer@footarg{}%
2457   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2458   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2459   \setkeys{beamerfootnote}{#1}%
2460   \let\KV@errx=\beamer@kvorig%
2461   \let\XKV@errx=\beamer@xkvorig%
2462   \ifx\beamer@footarg\@empty%
2463     \def\beamer@next{\stepcounter\beamer@mpfn
2464       \protected@xdef\@thefnmark{\beamer@thempfn}%
2465       \@footnotemark\beamer@LTRfootnotetext#2}%
2466   \else%
2467     \def\beamer@next{%
2468       \begingroup
2469         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2470         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2471       \endgroup
2472       \@footnotemark\beamer@LTRfootnotetext#2}%
2473   \fi%
2474   \beamer@next}
2475
2476

```

20 File beamerbaseframesize-xetex-bidi.def

```

2477 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2478 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2479   \par\nointerlineskip%

```



```

2480 \global\beamer@slidehaszoomtrue%
2481 \advance\beamer@zoomcount by1\relax%
2482 \def\beamer@zoomborderwidth{0}%
2483 \edef\beamer@labelzoomed{beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2484 \setkeys{beamerzoom}{#3}%
2485 \only<#1>{%
2486   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2487   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2488     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2489     \vbox to #7{%
2490       \hbox to#6{\hfil}%
2491       \vfil%
2492     }%
2493   \else%
2494     \begin{group}%
2495       \normalsize%
2496       \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2497         \pgfsetfillopacity{0}
2498         \pgftext [x=0cm,y=3pt]{.}
2499         \pgftext [x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2500       \end{pgfpicture}%
2501     \endgroup%
2502   \fi%
2503   }}}}%
2504   \ht\@tempboxa=0pt%
2505   \wd\@tempboxa=0pt%
2506   \dp\@tempboxa=0pt%
2507   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}%
2508   \ht\@tempboxa=0pt%
2509   \wd\@tempboxa=0pt%
2510   \dp\@tempboxa=0pt%
2511   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2512 }%
2513 \only<#2>{%
2514   \@ifundefined{beamer@labelzoomed}%
2515   {%
2516     \hypertarget{\beamer@labelzoomed}{}%
2517     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}}%
2518   }{}%
2519   \gdef\beamer@zoomer{%
2520     % compute zoom factor
2521     \@tempdima=\beamer@frametextheight%
2522     \@tempdimb=#7\relax%
2523     \@tempcnta=\@tempdimb%
2524     \divide\@tempcnta by4096\relax%
2525     \multiply\@tempdima by16\relax%
2526     \divide\@tempdima by\@tempcnta%
2527     \@tempdimb=\paperwidth%
2528     \ifbeamer@plainframe%
2529     \else%
2530       \advance\@tempdimb by-\beamer@leftsidebar%
2531       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2532     \fi%
2533     \@tempdimc=#6\relax%

```



```

2534 \tempcntb=\@tempdimc%
2535 \divide\tempcntb by4096\relax%
2536 \multiply\@tempdimb by16\relax%
2537 \divide\@tempdimb by\tempcntb%
2538 \ifdim\@tempdimb<\@tempdima%
2539 \@tempdima=\@tempdimb%
2540 \fi%
2541 \edef\beamer@temp{\strip@pt\@tempdima}%
2542 \@tempdimc=\beamer@frametextheight%
2543 \advance\@tempdimc by4pt%
2544 \@tempdimb=\paperwidth%
2545 \ifbeamer@plainframe%
2546 \else%
2547 \advance\@tempdimb by-\beamer@leftsidebar%
2548 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2549 \fi%
2550 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2551 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2552 \ht\@tempboxa=0pt%
2553 \wd\@tempboxa=0pt%
2554 \dp\@tempboxa=0pt%
2555 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2556 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2557 \ifRTL
2558 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2559 \pgftext [right, top]{\box\@tempboxa}
2560 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2561 \pgfusepath{clip}
2562 \begingroup
2563 \pgftransformscale{\beamer@temp}
2564 \@tempdima=#4\relax%
2565 \@tempdimb=#5\relax%
2566 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2567 \pgftext [right, top]{\vbox{\vbox{} \nointerlineskip \unvbox \beamer@framebox}}
2568 \endgroup
2569 \end{pgfpicture}}%
2570 \else
2571 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin
2572 \pgftext [left, top]{\box\@tempboxa}
2573 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2574 \pgfusepath{clip}
2575 \begingroup
2576 \pgftransformscale{\beamer@temp}
2577 \@tempdima=#4\relax%
2578 \@tempdimb=#5\relax%
2579 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2580 \pgftext [left, top]{\vbox{\vbox{} \nointerlineskip \unvbox \beamer@framebox}}
2581 \endgroup
2582 \end{pgfpicture}}%
2583 \fi
2584 }}%
2585 \setbox\beamer@framebox=\vbox{%
2586 \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2587 \nointerlineskip \unvbox \beamer@frametitlebox%

```



```

2588     \nobreak%
2589     \box\beamer@framebox%
2590     \nobreak%
2591     \vss%
2592     \beamer@exitcode%
2593   }%
2594   \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2595 }%
2596 }%
2597 }
2598
2599

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2600 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2601 \def\beamer@enum@{%
2602   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2603   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2604   \bgroup
2605   \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2606   \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2607   \egroup
2608   \expandafter
2609     \list
2610     {\usebeamertemplate{\beamer@enumtempl}}
2611     {\usecounter\@enumctr%
2612       \def\makelabel##1{\hss\llap{%
2613         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2614         \usebeamercolor[fg]{enumerate \beameritemnestingprefix item}##1}}}}%
2615   \beamer@cramped%
2616   \bidi@beamer@ragged%
2617   \beamer@firstlineitemizeunskip%
2618 }
2619
2620 \renewcommand{\itemize}[1][ ]{%
2621   \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2622   \ifnum \@itemdepth >2\relax\@toodeep\else
2623     \advance\@itemdepth\@ne
2624     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2625     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2626     \bgroup
2627     \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2628     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2629     \egroup
2630     \list
2631     {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2632     {\def\makelabel##1{%
2633       {%
2634         \hss\llap{%
2635           \usebeamerfont*{itemize \beameritemnestingprefix item}%
2636           \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}}}%
2637     }%
2638   }%

```



```

2639     }
2640 \fi%
2641 \beamer@cramped%
2642 \bidi@beamer@ragged%
2643 \beamer@firstlineitemizeunskip%
2644 }
2645
2646 \def\@@description{%
2647 \advance\beamer@descdefault by \labelsep%
2648 \usebeamerfont{description body}%
2649 \bgroup
2650 \usebeamercolor[fg]{description body}%
2651 \usebeamertemplate{description body begin}%
2652 \egroup
2653 \list
2654 {}
2655 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2656 \beamer@cramped%
2657 \bidi@beamer@ragged
2658 \beamer@firstlineitemizeunskip%
2659 }
2660
2661 \renewenvironment{thebibliography}[1]
2662 {%\leavevmode\unskip%
2663 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2664 \bidi@@thebibliography@font@hook%
2665 \list{\@biblabel{\@arabic\c@enumiv}}%
2666     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2667     \leftmargin\labelwidth
2668     \advance\leftmargin\labelsep
2669     \itemsep=0pt%
2670     \partopsep=0pt%
2671     \topsep=0pt%
2672     \usecounter{enumiv}%
2673     \let\p@enumiv\@empty
2674     \renewcommand\theenumiv{\@arabic\c@enumiv}
2675     \let\makelabel\beamer@biblabeltemplate}%
2676 \sloppy\bidi@beamer@ragged
2677 \clubpenalty10000
2678 \@clubpenalty \clubpenalty
2679 \widowpenalty10000%
2680 \sfcode`\.\@m}
2681 {\def\@noitemerr
2682     {\@latex@warning{Empty `thebibliography' environment}}%
2683 \ifhmode\unskip\fi\endlist}
2684
2685

```

22 File beamerbasemisc-xetex-bidi.def

```

2686 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2687 \define@key{beamerst}{width}{%
2688 \def\beamer@ststart{%
2689 \begin{minipage}[t]{#1}%

```




```

2690     \bidi@beamer@ragged
2691     \beamer@stalign
2692     \beamer@stlinebreakrule
2693   }%
2694 \def\beamer@stend{\end{minipage}}
2695
2696

```

23 File beamerbasenavigation-xetex-bidi.def

```

2697 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beamer]
2698 \def\slideentry#1#2#3#4#5#6{%
2699   %section number, subsection number, slide number, first/last frame, page number, part number
2700   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2701     \ifbeamer@compress%
2702       \advance\beamer@xpos by1\relax%
2703     \else%
2704       \ifnum#2=0%
2705         \beamer@ypos@offset=1\relax%
2706       \fi
2707       \beamer@xpos=#3\relax%
2708       \beamer@ypos=#2\relax%
2709       \advance\beamer@ypos by \beamer@ypos@offset\relax
2710     \fi%
2711   \hbox to 0pt{%
2712     \beamer@tempdim=-\beamer@vboxoffset%
2713     \advance\beamer@tempdim by-\beamer@boxsize%
2714     \multiply\beamer@tempdim by\beamer@ypos%
2715     \advance\beamer@tempdim by -.05cm%
2716     \raise\beamer@tempdim\hbox{%
2717       \beamer@tempdim=\beamer@boxsize%
2718       \multiply\beamer@tempdim by\beamer@xpos%
2719       \advance\beamer@tempdim by -\beamer@boxsize%
2720       \advance\beamer@tempdim by 1pt%
2721       \kern\beamer@tempdim
2722       \global\beamer@section@min@dim\beamer@tempdim
2723       \hbox{\beamer@link(#4){%
2724         \usebeamerfont{mini frame}%
2725         \ifnum\c@section=#1%
2726           \ifnum\c@subsection=#2%
2727             \usebeamercolor[fg]{mini frame}%
2728             \ifnum\c@subsectionslide=#3%
2729               \usebeamertemplate{mini frame}\beamer@minislidehighlight%
2730             \else%
2731               \usebeamertemplate{mini frame in current subsection}\beamer@minisliderowhighlight%
2732             \fi%
2733           \else%
2734             \usebeamercolor{mini frame}%
2735             \%color{fg!50!bg}%
2736             \usebeamertemplate{mini frame in other subsection}\beamer@minislide%
2737           \fi%
2738         \else%
2739           \usebeamercolor{mini frame}%
2740           \%color{fg!50!bg}%

```



```

2741         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2742         \fi%
2743     }}}} \hskip-10cm plus 1fil%
2744 } \fi \fi%
2745 \else%
2746 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2747 \fi \ignorespaces
2748 }
2749
2750 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2751 {
2752 \pgfpathmoveto{3.5bp}{0.5bp}
2753 \pgfpathqlineto{1.5bp}{2bp}
2754 \pgfpathqlineto{3.5bp}{3.5bp}
2755 \pgfusepathqfill
2756 }
2757
2758 \def\insertgotosymbol{%
2759 \if@RTL
2760 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2761 \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2762 \end{pgfpicture}%
2763 \else
2764 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2765 \pgfuseobject{beamer@gotosymbol}%
2766 \end{pgfpicture}%
2767 \fi
2768 }
2769
2770 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2771 {
2772 \pgfpathmoveto{5.5bp}{0.5bp}
2773 \pgfpathqlineto{3.5bp}{2bp}
2774 \pgfpathqlineto{5.5bp}{3.5bp}
2775 \pgfpathmoveto{3.5bp}{0.5bp}
2776 \pgfpathqlineto{1.5bp}{2bp}
2777 \pgfpathqlineto{3.5bp}{3.5bp}
2778 \pgfusepathqfill
2779 }
2780
2781 \def\insertskipsymbol{%
2782 \if@RTL
2783 \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2784 \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2785 \end{pgfpicture}%
2786 \else
2787 \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2788 \pgfuseobject{beamer@skipsymbol}%
2789 \end{pgfpicture}%
2790 \fi
2791 }
2792
2793 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2794 {

```



```

2795 \pgfpathmoveto{1.5bp}{0.5bp}
2796 \pgfpathqlineto{3.5bp}{2bp}
2797 \pgfpathqlineto{1.5bp}{3.5bp}
2798 \pgfusepathqfill
2799 }
2800
2801 \def\insertreturnsymbol{%
2802 \if@RTL
2803 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2804 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2805 \end{pgfpicture}%
2806 \else
2807 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2808 \pgfuseobject{beamerreturnsymbol}%
2809 \end{pgfpicture}%
2810 \fi
2811 }
2812
2813

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2814 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2815 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2816
2817

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2818 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2819 \newcommand*{\bidi@beamer@leftskip}{%
2820 \if@RTL
2821 \rightskip
2822 \else
2823 \leftskip
2824 \fi
2825 }
2826
2827 \newcommand*{\bidi@beamer@rightskip}{%
2828 \if@RTL
2829 \leftskip
2830 \else
2831 \rightskip
2832 \fi
2833 }
2834
2835 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2836
2837 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2838
2839 \defbeamer*template*{subsection in toc}{default}
2840 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2841
2842 \defbeamer*template*{subsubsection in toc}{default}

```



```

2843 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2844 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2845
2846 \newcommand*{\bidi@beamer@blacktriangle}{%
2847 \if@RTL
2848   $\blacktriangleleft$%
2849 \else
2850   $\blacktriangleright$%
2851 \fi
2852 }
2853
2854 \bidi@csundef{beamer@@tmpop@itemize item@default}
2855
2856 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2857
2858 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2859
2860 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\vd
2861 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2862 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2863
2864 \bidi@undef\beamer@@tmpop@footnote@default
2865
2866 \defbeamertemplate*{footnote}{default}
2867 {
2868 \parindent 1em\noindent%
2869 \bidi@beamer@ragged
2870 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2871 }
2872
2873 \defbeamertemplate*{RTLfootnote}{default}
2874 {
2875 \parindent 1em\noindent%
2876 \raggedleft
2877 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2878 }
2879
2880 \defbeamertemplate*{LTRfootnote}{default}
2881 {
2882 \parindent 1em\noindent%
2883 \raggedright
2884 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2885 }
2886
2887 \bidi@undef\beamer@@tmpop@caption@default
2888
2889 \defbeamertemplate*{caption}{default}
2890 {%
2891 \bidi@beamer@ragged
2892 {%
2893 \leavevmode
2894 \usebeamerfont[fg]{caption name}%
2895 \usebeamerfont*{caption name}%
2896 \insertcaptionname

```



```

2897   \usebeamertemplate{caption label separator}%
2898 }%
2899 \insertcaption\par
2900 }
2901
2902 \bidi@csundef{beamer@@tmpop@block begin@default}
2903
2904 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2905
2906 \bidi@csundef{beamer@@tmpop@block example begin@default}
2907
2908 \defbeamertemplate*{block begin}{default}
2909 {
2910   \par\vskip\medskipamount%
2911   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2912     \usebeamerfont*{block title}\insertblocktitle%
2913   \end{beamercolorbox}%
2914   {\parskip0pt\par}%
2915   \ifbeamercoloreempty[bg]{block title}
2916   {}
2917   {\ifbeamercoloreempty[bg]{block body}{}\nointerlineskip\vskip-0.5pt}}%
2918   \usebeamerfont{block body}%
2919   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2920     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel}
2921   }
2922
2923 \defbeamertemplate*{block alerted begin}{default}
2924 {
2925   \par\vskip\medskipamount%
2926   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2927     \usebeamerfont*{block title alerted}\insertblocktitle%
2928   \end{beamercolorbox}%
2929   {\parskip0pt\par}%
2930   \ifbeamercoloreempty[bg]{block title alerted}
2931   {}
2932   {\ifbeamercoloreempty[bg]{block body alerted}{}\nointerlineskip\vskip-0.5pt}}%
2933   \usebeamerfont{block body alerted}%
2934   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2935     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e}
2936   }
2937
2938 \defbeamertemplate*{block example begin}{default}
2939 {
2940   \par\vskip\medskipamount%
2941   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2942     \usebeamerfont*{block title example}\insertblocktitle%
2943   \end{beamercolorbox}%
2944   {\parskip0pt\par}%
2945   \ifbeamercoloreempty[bg]{block title example}
2946   {}
2947   {\ifbeamercoloreempty[bg]{block body example}{}\nointerlineskip\vskip-0.5pt}}%
2948   \usebeamerfont{block body example}%
2949   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2950     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e}

```



```

2951 }
2952
2953 \bidi@csundef{beamer@tmpop@abstract begin@default}
2954
2955 \defbeamer@template*{abstract begin}{default}
2956 {\beamer@colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2957
2958 \bidi@undef\beamer@tmpop@button@default
2959
2960 \defbeamer@template*{button}{default}
2961 {%
2962 \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2963 \ht\beamer@tempbox=6pt%
2964 \dp\beamer@tempbox=0pt%
2965 \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2966 \beamer@tempdim=\wd\beamer@tempbox%
2967 \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2968 \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2969 \if@RTL
2970 \kern4pt%
2971 \box\beamer@tempbox%
2972 \hskip-\beamer@tempdim%
2973 \fi
2974 \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2975 \color{bg}
2976 \pgfsetlinewidth{0.8pt}
2977 \pgfpathmoveto{0pt}{0pt}
2978 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2979 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2980 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2981 \pgfpathcurveto%
2982 {\pgfpoint{\the\beamer@dima}{8pt}}%
2983 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2984 {\pgfpoint{\the\beamer@dimb}{4pt}}
2985 \pgfpathcurveto%
2986 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2987 {\pgfpoint{\the\beamer@dima}{0pt}}%
2988 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2989 \pgfpathclose
2990 \pgfusepathqfill
2991 \colorlet{bg}{parent.bg}
2992 \usebeamer@color[fg]{button border}
2993 \pgfpathmoveto{0pt}{0pt}
2994 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2995 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2996 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2997 \pgfpathcurveto%
2998 {\pgfpoint{\the\beamer@dima}{8pt}}%
2999 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3000 {\pgfpoint{\the\beamer@dimb}{4pt}}
3001 \pgfpathcurveto%
3002 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3003 {\pgfpoint{\the\beamer@dima}{0pt}}%
3004 {\pgfpoint{\the\beamer@tempdim}{0pt}}

```



```

3005   \pgfpathclose
3006   \pgfusepathqstroke
3007 \end{pgfpicture}%
3008 \if@RTL
3009 \else
3010   \hskip-\beamer@tempdim%
3011   \box\beamer@tempbox%
3012   \kern4pt%
3013 \fi
3014 }
3015
3016

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3018 \setbeamertemplate{sections/subsections in toc}[circle]
3019

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3020 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3021 \setbeamertemplate{section in toc}[square]
3022 \setbeamertemplate{subsection in toc}[square]
3023
3024 \setbeamertemplate{itemize items}[square]
3025 \setbeamertemplate{itemize subitem}[triangle]
3026
3027 \bidi@csundef{beamer@@tmpop@title page@focus}
3028
3029 \defbeamertemplate*{title page}{focus}{%
3030   {%
3031     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3032     \begin{tikzpicture}[overlay, remember picture]
3033       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3034     \end{tikzpicture}
3035   }
3036
3037   \vspace{-1.65\baselineskip}
3038   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3039     \vspace{\baselineskip}
3040     \usebeamerfont{title}
3041     \usebeamercolor[fg]{frametitle}
3042     \inserttitle
3043   \end{minipage}
3044
3045   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3046     \usebeamerfont{subtitle}
3047     \usebeamercolor[fg]{frametitle}
3048     \insertsubtitle
3049   \end{minipage}
3050
3051   % Set the title graphic in a zero-height box, so that
3052   % the position of other elements is not affected.

```



```

3053   {\vfuzz=9999pt\vbox to 0pt {
3054     \if@RTL
3055       \raggedright
3056     \else
3057       \raggedleft
3058     \fi
3059     \inserttitlegraphic
3060   }}
3061
3062   \begin{minipage}[t]{\textwidth}
3063     \usebeamerfont{author}
3064     \insertauthor
3065   \end{minipage}
3066
3067   \vspace*{\baselineskip}
3068   \begin{minipage}[t]{\textwidth}
3069     \usebeamerfont{institute}
3070     \insertinstitute
3071   \end{minipage}
3072
3073   \vspace*{\baselineskip}
3074   \begin{minipage}[t]{\textwidth}
3075     \usebeamerfont{date}
3076     \insertdate
3077   \end{minipage}
3078
3079   \vspace*{0pt plus 100fill}
3080
3081   \addtocounter{framenumbers}{-1}
3082   \addtocounter{realframenumbers}{-1}
3083 }
3084
3085
3086

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3087 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3088 \AtBeginDocument{%
3089   \setbeamsize{sidebar width left=.25\paperwidth}%
3090 }
3091
3092 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3093
3094 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3095
3096 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3097
3098 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3099
3100 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3101
3102 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3103

```




```

3104 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3107
3108 \defbeamertemplate*{section in toc}{inmargin}
3109 {\leavevmode
3110 \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3111
3112 \defbeamertemplate*{title page}{inmargin}
3113 {
3114 \begin{block}{\inserttitleindicator}
3115 \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3116 \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3117 \end{block}
3118 \vfill
3119 \ifx\insertauthor\@empty
3120 \else
3121 \begin{block}{\insertauthorindicator}
3122 \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3123 \end{block}
3124 \fi
3125 \ifx\insertinstitute\@empty
3126 \else
3127 \begin{block}{\insertinstituteindicator}
3128 \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3129 \end{block}
3130 \fi
3131 \ifx\insertdate\@empty
3132 \else
3133 \begin{block}{\insertdateindicator}
3134 \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3135 \end{block}
3136 \fi
3137 }
3138
3139 \defbeamertemplate*{block begin}{inmargin}
3140 {
3141 \par\vskip\medskipamount%
3142 \leavevmode%
3143 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\i
3144 \beginL\beamer@putright
3145 %\usebeamercolor[fg]{block body}% to be done!
3146 }
3147
3148 \defbeamertemplate*{block end}{inmargin}
3149 {\endbeamer@putright\endL\vskip\smallskipamount}
3150
3151 \defbeamertemplate*{block alerted begin}{inmargin}
3152 {
3153 \par\vskip\medskipamount%
3154 \leavevmode%
3155 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3156 \beginL\beamer@putright
3157 %\usebeamercolor[fg]{block body alerted}% to be done!

```



```

3158 }
3159
3160 \defbeamer*{block alerted end}{inmargin}
3161 {\endbeamer@putright\endL\vskip\smallskipamount}
3162
3163 \defbeamer*{block example begin}{inmargin}
3164 {
3165   \par\vskip\medskipamount%
3166   \leavevmode%
3167   \beamer@putleft{\normalfont{\usebeamerfont[fg]{block title example}}\usebeamerfont*{block
3168   \beginL\beamer@putright
3169   %\usebeamerfont[fg]{block body example}% to be done
3170 }
3171
3172 \defbeamer*{block example end}{inmargin}
3173 {\endbeamer@putright\endL\vskip\smallskipamount}
3174
3175 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3176   \setbeamer*{section in toc}[inmargin]%
3177   \setbeamer*{subsection in toc}[inmargin]%
3178   \setbeamer*{subsubsection in toc}[inmargin]%
3179 }
3180
3181

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3182 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3183 \setbeamer*{title}{
3184   \bidi@beamer@ragged%
3185   \linespread{1.0}%
3186   \inserttitle%
3187   \par%
3188   \vspace*{0.5em}
3189 }
3190
3191 \setbeamer*{subtitle}{
3192   \bidi@beamer@ragged%
3193   \insertsubtitle%
3194   \par%
3195   \vspace*{0.5em}
3196 }
3197
3198 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3199
3200 \defbeamer*{section page}{progressbar}{
3201   \centering
3202   \begin{minipage}{22em}
3203     \bidi@beamer@ragged
3204     \usebeamerfont[fg]{section title}
3205     \usebeamerfont{section title}
3206     \insertsectionhead\[-1ex]
3207     \usebeamer*{progress bar in section page}
3208     \par

```



```

3209 \ifx\insertsubsectionhead\@empty\else%
3210 \usebeamercolor[fg]{subsection title}%
3211 \usebeamerfont{subsection title}%
3212 \insertsubsectionhead
3213 \fi
3214 \end{minipage}
3215 \par
3216 \vspace{\baselineskip}
3217 }
3218
3219 \setbeamertemplate{progress bar in section page}{
3220 \setlength{\metropolis@progressonsectionpage}{%
3221 \textwidth * \ratio{\insertframenummer pt}{\inserttotalframenummer pt}}%
3222 }%
3223 \begin{tikzpicture}
3224 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3225 \if@RTLmain
3226 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage);
3227 \else
3228 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage);
3229 \fi
3230 \end{tikzpicture}%
3231 }
3232
3233 \renewcommand{\metropolis@block}[1]{
3234 \par\vskip\medskipamount%
3235 \setlength{\parskip}{Opt}
3236 \ifbeamercolorempy[bg]{block title#1}{%
3237 \if@RTL
3238 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3239 \else
3240 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3241 \fi
3242 }{%
3243 \ifbeamercolorempy[bg]{block title}{%
3244 \if@RTL
3245 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3246 \else
3247 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3248 \fi
3249 }%
3250 }%
3251 \if@RTL
3252 \begin{beamercolorbox}[
3253 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3254 rightskip=\metropolis@blockadjust,
3255 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3256 ]{block title#1}%
3257 \else
3258 \begin{beamercolorbox}[
3259 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3260 leftskip=\metropolis@blockadjust,
3261 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3262 ]{block title#1}%

```



```

3263   \fi
3264 }}%
3265   \usebeamerfont*{block title#1}%
3266   \metropolis@strut%
3267   \insertblocktitle%
3268   \metropolis@strut%
3269 \end{beamercolorbox}%
3270 \nointerlineskip%
3271 \ifbeamercoloreempty[bg]{block body#1}{%
3272   \begin{beamercolorbox}[vmode]{block body#1}}{
3273   \ifbeamercoloreempty[bg]{block body}{%
3274     \begin{beamercolorbox}[vmode]{block body#1}%
3275   }}{%
3276     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3277     \vspace{-\metropolis@parskip}
3278   }}%
3279   \usebeamerfont{block body#1}%
3280   \setlength{\parskip}{\metropolis@parskip}%
3281 }
3282
3283
3284 \setbeamertemplate{footnote}{%
3285   \parindent 0em\noindent%
3286   \bidi@beamer@ragged
3287   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3288 }
3289
3290 \setbeamertemplate{RTLfootnote}{%
3291   \parindent 0em\noindent%
3292   \raggedleft
3293   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{LTRfootnote}{%
3297   \parindent 0em\noindent%
3298   \raggedright
3299   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3300 }
3301
3302 \setbeamertemplate{itemize items}{\textbullet}
3303
3304 \setbeamertemplate{section page}[progressbar]
3305
3306

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3307 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
3308 \setbeamertemplate{sections/subsections in toc}[square]
3309 \setbeamertemplate{items}[square]
3310

```

31 File beamerinnerthemrounded-xetex-bidi.def



```

3311 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3312 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3313 \setbeamertemplate{items}[ball]
3314 \setbeamertemplate{sections/subsections in toc}[ball]
3315

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3316 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3317 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3318
3319 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3320
3321 \AtBeginDocument{%
3322   \if@RTLmain
3323     \setbeamertemplate{frametitle}[default][right]
3324   \fi
3325 }
3326
3327 \bidi@csundef{beamer@@tmpop@note page@default}
3328
3329 \newcommand*{\bidi@beamer@today}{%
3330 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3331
3332 \defbeamertemplate*{note page}{default}
3333 {%
3334   {%
3335     \scriptsize
3336     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3337     \ifbeamercolorempy[bg]{note title}{}{%
3338       \insertvrule{.25\paperheight}{note title.bg}%
3339       \vskip-.25\paperheight%
3340       \nointerlineskip%
3341     }%
3342     \vbox{
3343       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3344       \vskip-0.25\paperheight%
3345       \nointerlineskip
3346       \if@RTL
3347         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3348           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3349             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3350             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3351           \end{pgflowlevelscope}
3352         \end{pgfpicture}%
3353       \else
3354         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3355           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3356             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3357             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3358           \end{pgflowlevelscope}
3359         \end{pgfpicture}%
3360       \fi}
3361     \nointerlineskip

```



```

3362 \vbox to .25\paperheight{\vskip0.5em
3363 \if@RTL
3364 \moveright0.25\textwidth
3365 \fi
3366 \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3367 \setbox\beamer@tempbox=\hbox{\insertsection}%
3368
3369 \if@RTL
3370 \moveright\dimexpr0.29\textwidth-14pt\relax
3371 \fi
3372 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3373 width0.4pt height7pt\vrule width 9pt
3374 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi}
3375 \if@RTL\endR\fi}%
3376 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3377
3378 \if@RTL
3379 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3380 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3381 width0.4pt height7pt\vrule width 9pt
3382 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi}
3383 \if@RTL\endR\fi}%
3384 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3385
3386 \if@RTL
3387 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3388 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3389 width0.4pt height7pt\vrule width 9pt
3390 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi}
3391 \if@RTL\endR\fi}%
3392 \vfil}%
3393 }%
3394 \ifbeamercoloreempty[bg]{note page}{-}{-}%
3395 \nointerlineskip%
3396 \insertvrule{.75\paperheight}{note page.bg}%
3397 \vskip-.75\paperheight%
3398 }%
3399 \vskip.25em
3400 \nointerlineskip
3401 \insertnote
3402 }
3403
3404
3405

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3406 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3407 \bidi@undef\beamer@tmpop@footline@progressbar
3408
3409 \defbeamer*template*{footline}{progressbar}{-}{-}
3410 % If not appendix.
3411 \ifnum\mainend<0% From package appendixnumberbeamer.
3412 %

```



```

3413     \settoheight{\focus@pbar@leftoffset}{1}%
3414     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3415     %
3416     \ifx\beamer@focus@totalframenum\beamer@totalframenum
3417         \settoheight{\focus@pbar@rightoffset}{1}%
3418         \addtolength{\focus@pbar@rightoffset}{0.5em}%
3419     \else%
3420         \settoheight{\focus@pbar@rightoffset}{\inserttotalframenum}%
3421         \addtolength{\focus@pbar@rightoffset}{1.5em}%
3422     \fi%
3423     %
3424     % If not title page.
3425     \ifnum\value{realframenum}>0%
3426         \ifnum\value{framenum}<\inserttotalframenum%
3427             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3428                 \pgfmathsetmacro{\focus@pbar@progress}%
3429                     {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenum-\value{framenum})/\value{realframenum}}
3430                 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3431             \end{tikzpicture}
3432 \if@RTLmain
3433             \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3434             \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,
3435             ++(0,{-0.5*\the\focus@pbar@height})];
3436 \else
3437             \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3438             \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,
3439             ++(0,{-0.5*\the\focus@pbar@height})];
3440 \fi
3441         \ifx\beamer@focus@totalframenum\beamer@totalframenum
3442         \else%
3443 \if@RTLmain
3444             \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,
3445             ++(0,{-0.5*\the\focus@pbar@height})];
3446 \else
3447             \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,
3448             ++(0,{-0.5*\the\focus@pbar@height})];
3449 \fi
3450         \fi%
3451         \end{tikzpicture}%
3452     \else%
3453         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3454             \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3455             \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3456 \if@RTLmain
3457             \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {};
3458 \else
3459             \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {};
3460 \fi
3461         \ifx\beamer@focus@totalframenum\beamer@totalframenum
3462         \else%
3463 \if@RTLmain
3464             \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {};
3465             \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {};
3466 \else

```



```

3467             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3468             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3469 \fi
3470             \fi%
3471             \end{tikzpicture}%
3472             \fi%
3473             \fi%
3474             \fi%
3475 }
3476
3477

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3478 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3479 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3480
3481 \defbeamertemplate*{footline}{infolines theme}
3482 {%
3483   \leavevmode%
3484   \hbox{%
3485     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3486     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3487     \end{beamercolorbox}%
3488     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3489     \usebeamerfont{title in head/foot}\insertshorttitle
3490     \end{beamercolorbox}%
3491     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3492     \hfill%
3493     \usebeamerfont{date in head/foot}%
3494     \insertshortdate{}%
3495     \hfill%
3496     \bgroup
3497     \usebeamerfont{page number in head/foot}%
3498     \usebeamerfont{page number in head/foot}%
3499     \usebeamertemplate{page number in head/foot}%
3500     \egroup
3501     \end{beamercolorbox}}%
3502   \vskip0pt%
3503 }
3504
3505 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3506
3507 \defbeamertemplate*{headline}{infolines theme}
3508 {%
3509   \leavevmode%
3510   \hbox{%
3511     \if@RTL
3512     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3513   \else
3514     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3515   \fi
3516     \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3517     \end{beamercolorbox}%

```




```

3518 \if@RTL
3519 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3520 \else
3521 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3522 \fi
3523 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3524 \end{beamercolorbox}}%
3525 \vskip0pt%
3526 }
3527
3528 \bidi@AfterFile{beamerouterthememetroplit-xetex-bidi.def}{%
3529 \setbeamertemplate{footline}[infolines theme]%
3530 }
3531

```

35 File beamerouterthememetroplit-xetex-bidi.def

```

3532 \ProvidesFile{beamerouterthememetroplit-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3533 \setbeamertemplate{progress bar in head/foot}{
3534 \nointerlineskip
3535 \setlength{\metroplit@progressinheadfoot}{%
3536 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3537 }%
3538 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3539 \begin{tikzpicture}
3540 \fill[bg] (0,0) rectangle (\paperwidth, \metroplit@progressinheadfoot@linewidth);
3541 \if@RTLmain
3542 \fill[fg] (\paperwidth-\metroplit@progressinheadfoot,0) rectangle (\paperwidth, \metr
3543 \else
3544 \fill[fg] (0,0) rectangle (\metroplit@progressinheadfoot, \metroplit@progressinheadf
3545 \fi
3546 \end{tikzpicture}}%
3547 \end{beamercolorbox}
3548 }
3549
3550 \AtBeginDocument{%
3551 \setbeamertemplate{frametitle}[plain]%
3552 }
3553
3554

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3555 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3556 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3557
3558 \defbeamertemplate*{headline}{miniframes theme}
3559 {%
3560 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3561 \end{beamercolorbox}
3562 \begin{beamercolorbox}{section in head/foot}
3563 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3564 \end{beamercolorbox}}%
3565 \ifbeamer@theme@subsection%

```



```

3566 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3567 \end{beamercolorbox}
3568 \if@RTL
3569 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3570 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3571 \else
3572 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3573 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3574 \fi
3575 \usebeamerfont{subsection in head/footer}\insertsubsectionhead
3576 \end{beamercolorbox}%
3577 \fi%
3578 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3579 \end{beamercolorbox}
3580 }
3581
3582

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3583 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3584 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3585
3586 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3587
3588 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3589
3590 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3591
3592 \ifdim\beamer@headheight>0pt
3593
3594 \defbeamertemplate*{frametitle}{sidebar theme}
3595 {%
3596 \nointerlineskip%
3597 \ifbeamer@plainframe%
3598 \hbox{\usebeamercolor[bg]{frametitle}%
3599 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3600 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3601 \nointerlineskip%
3602 \fi%
3603 \vskip-\beamer@headheight%
3604 \vbox to \beamer@headheight{%
3605 \vfil
3606 \bidi@beamer@leftskip=-\beamer@leftmargin%
3607 \advance\bidi@beamer@leftskip by0.3cm%
3608 \bidi@beamer@rightskip=-\beamer@rightmargin%
3609 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3610 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3611 \ifx\insertframesubtitle\@empty\else%
3612 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3613 \fi%
3614 \vbox{}%
3615 \vskip-1em%
3616 \vfil

```



```

3617 }%
3618 }
3619
3620 \AtBeginDocument{%
3621 \setbeamertheme{frametitle}[sidebar theme]%
3622 }
3623
3624 \defbeamertheme*{headline}{sidebar theme}
3625 {%
3626 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3627 \ifx\beamer@sidebarside\beamer@lefttext%
3628 \else%
3629 \hfill%
3630 \fi%
3631 \ifdim\beamer@sidebarwidth>0pt%
3632 \bgroup
3633 \usebeamercolor[bg]{logo}%
3634 \if@RTLmain
3635 \else
3636 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3637 \hskip-\beamer@sidebarwidth%
3638 \fi
3639 \hbox to \beamer@sidebarwidth{\hss\vbox to
3640 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3641 \if@RTLmain
3642 \hskip-\beamer@sidebarwidth%
3643 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3644 \fi
3645 \egroup
3646 \else%
3647 \vrule width0pt height \beamer@headheight%
3648 \fi%
3649 \end{beamercolorbox}
3650 }
3651 \fi
3652
3653 \def\beamer@sidebarformat#1#2#3{%
3654 \if@RTL
3655 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3656 \else
3657 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3658 \fi
3659 \vbox{}%
3660 #3\par%
3661 \vbox{}%
3662 \vskip-1.5ex%
3663 \end{beamercolorbox}
3664 }
3665
3666 \ifdim\beamer@sidebarwidth>0pt
3667
3668 \AtBeginDocument{%
3669 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3670 }

```



```

3671
3672 \defbeamertheme*{sidebar \beamer@sidebarside}{sidebar theme}
3673 {
3674   \beamer@tempdim=\beamer@sidebarwidth%
3675   \advance\beamer@tempdim by -6pt%
3676   {\usebeamerfont{title in sidebar}%
3677     \vskip1.5em%
3678     \hskip3pt%
3679     \bgroup
3680     \usebeamercolor[fg]{title in sidebar}%
3681     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3682     \vskip1.25em%
3683   }%
3684   {%
3685     \hskip3pt%
3686     \bgroup
3687     \usebeamercolor[fg]{author in sidebar}%
3688     \usebeamerfont{author in sidebar}%
3689     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3690     \vskip1.25em%
3691   }%
3692   \insertverticalnavigation{\beamer@sidebarwidth}%
3693   \vfill
3694   \ifx\beamer@sidebarside\beamer@lefttext%
3695     \else%
3696       \usebeamercolor{normal text}%
3697       \llap{\usebeamertheme***{navigation symbols}\hskip0.1cm}%
3698       \vskip2pt%
3699     \fi%
3700   }%
3701 \fi
3702

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3703 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3704 \bidi@csundef{beamer@tmppop@footline@split theme}
3705
3706 \defbeamertheme*{footline}{split theme}
3707 {%
3708   \leavevmode%
3709   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3710 \else
3711 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3712 \fi
3713   \usebeamerfont{author in head/footer}\insertshortauthor
3714   \end{beamercolorbox}%
3715   \if@RTL
3716     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3717   \else
3718     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3719   \fi
3720   \usebeamerfont{title in head/footer}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3721   \end{beamercolorbox}}%

```



```

3722 \vskip0pt%
3723 }
3724
3725

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3726 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3727 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3728 color(0pt)=(frametitle right.bg);
3729 color(\paperwidth)=(frametitle.bg)
3730 }
3731
3732 \newcommand*{\bidi@beamer@frametitleshade}{%
3733 \if@RTLmain
3734 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3735 \else
3736 \pgfuses shading{beamer@frametitleshade}%
3737 \fi
3738 }
3739
3740 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3741
3742 \defbeamer template*{frametitle}{shadow theme}
3743 {%
3744 \nointerlineskip%
3745 \vskip-2pt%
3746 \hbox{\leavev mode
3747 \advance\beamer@leftmargin by -12bp%
3748 \advance\beamer@rightmargin by -12bp%
3749 \beamer@tempdim=\textwidth%
3750 \advance\beamer@tempdim by \beamer@leftmargin%
3751 \advance\beamer@tempdim by \beamer@rightmargin%
3752 \hskip-\Gm@lmargin\hbox{%
3753 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3754 \vbox{\vskip-.75ex%
3755 \bidi@beamer@leftskip0.3cm%
3756 \bidi@beamer@rightskip0.3cm plus1fil\leavev mode
3757 \bgroup\usebeamer color [fg]{frametitle}\usebeamer font{frametitle}\strut\insertframe
3758 \ifx\insertframesubtitle\@empty\else%
3759 {\usebeamer font*{framesubtitle}{\usebeamer color [fg]{framesubtitle}\insertframesu
3760 \fi%
3761 \nointerlineskip
3762 \vbox{}}%
3763 \end{minipage}}%
3764 \beamer@tempdim=\ht\beamer@tempbox%
3765 \advance\beamer@tempdim by 2pt%
3766 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3767 \begin{pgfscope}
3768 \pgfsetfillcolor{black}%
3769 \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3770 \pgfsetfading{beamer@topshadowmask}{}%
3771 \pgfusepath{fill}%
3772 \end{pgfscope}

```



```

3773     \begin{pgfscope}
3774         \usebeamercolor{frametitle right}%
3775         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3776         \pgfusepath{clip}%
3777         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3778     \end{pgfscope}
3779 \end{pgfpicture}
3780 \hskip-\paperwidth%
3781 \box\beamer@tempbox%
3782 }%
3783 \hskip-\Gm@margin%
3784 }%
3785 \vskip-2pt
3786 }
3787
3788 \AtBeginDocument{%
3789 \setbeamertheme{frametitle}[shadow theme]%
3790 }
3791
3792

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3793 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3794 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3795
3796 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3797
3798 \defbeamertheme*{headline}{smoothbars theme}
3799 {%
3800 \pgfuses shading{beamer@barshade}%
3801 \vskip-0.05ex%
3802 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3803 \begin{pgfpicture}
3804 \begin{pgfscope}%
3805 \ifbeamer@sb@subsection%
3806 \pgfsetfillcolor{subsection in head/foot.bg}%
3807 \else%
3808 \pgfsetfillcolor{section in head/foot.bg}%
3809 \fi%
3810 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3811 \pgfsetfading{beamer@belowframetitlemask}{}%
3812 \pgfusepath{fill}%
3813 \end{pgfscope}%
3814 \end{pgfpicture}%
3815 \end{beamercolorbox}%
3816 \ifbeamer@sb@subsection%
3817 \vskip-9.75ex%
3818 \else%
3819 \vskip-6.85ex%
3820 \fi%
3821 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3822 \insertnavigation{\paperwidth}
3823 \end{beamercolorbox}%

```



```

3824 \ifbeamer@sb@subsection%
3825 \if@RTL
3826   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3828   \else
3829     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3830       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3831     \fi
3832     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3833   \end{beamercolorbox}%
3834 \fi%
3835 }%
3836
3837 \defbeamertemplate*{frametitle}{smoothbars theme}
3838 {%
3839   \nointerlineskip%
3840   \vskip-0.19ex%
3841   \usebeamerfont{headline}%
3842   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3843     \pgfuses shading{beamer@aboveframetitle}%
3844   \end{beamercolorbox}%
3845   \vskip-1ex%
3846   \nointerlineskip%
3847   \if@RTL
3848     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3849     \else
3850     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3851     \fi
3852     \vskip0.5ex%
3853     \usebeamerfont*{frametitle}\strut\insertframetitle%
3854     \ifx\insertframesubtitle\@empty%
3855       \strut\par%
3856     \else
3857       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor{fg}{framesubtitle}\strut\insertf
3858     \fi%%
3859     \usebeamerfont{headline}%
3860     \vskip0.05ex%
3861   \end{beamercolorbox}%
3862   \nointerlineskip%
3863   \vskip-0.05ex%
3864   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3865   \begin{pgfpicture}
3866     \begin{pgfscope}%
3867       \pgfsetfillcolor{frametitle.bg}%
3868       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3869       \pgfsetfading{beamer@belowframetitlemask}{}%
3870       \pgfusepath{fill}%
3871     \end{pgfscope}%
3872   \end{pgfpicture}%
3873   \end{beamercolorbox}%
3874 }
3875
3876 \AtBeginDocument{%
3877   \setbeamertemplate{frametitle}[smoothbars theme]%

```



```

3878 }
3879
3880

```

41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3881 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3882 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3883
3884 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3885
3886 \defbeamertemplate*{headline}{smoothtree theme}
3887 {%
3888   \pgfuseshading{beamer@treeshade}%
3889   \vskip-0.05ex%
3890   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3891   \begin{pgfpicture}
3892     \begin{pgfscope}%
3893       \pgfsetfillcolor{subsection in head/foot.bg}%
3894       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3895       \pgfsetfading{beamer@belowframetitlemask}{}%
3896       \pgfusepath{fill}%
3897     \end{pgfscope}%
3898   \end{pgfpicture}%
3899   \end{beamercolorbox}%
3900   \vskip-9.15ex%
3901   \if@RTL
3902     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3904   \else
3905     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3906       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3907     \fi
3908     \usebeamerfont{title in head/foot}\insertshorttitle
3909   \end{beamercolorbox}
3910   \if@RTL
3911     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3913   \else
3914     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3915       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3916     \fi
3917     \usebeamerfont{section in head/foot}%
3918     \hskip6pt\insertsectionhead
3919   \end{beamercolorbox}
3920   \if@RTL
3921     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3923   \else
3924     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3925       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3926     \fi
3927     \usebeamerfont{subsection in head/foot}%
3928     \hskip12pt\insertsubsectionhead

```




```

3929 \end{beamercolorbox}
3930 \vskip-0.4ex%
3931 }
3932
3933 \defbeamertemplate*{frametitle}{smoothtree theme}
3934 {%
3935 \nointerlineskip%
3936 \vskip-0.05ex%
3937 \usebeamerfont{headline}%
3938 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3939 \pgfuses shading{beamer@aboveframetitle}%
3940 \end{beamercolorbox}
3941 \nointerlineskip%
3942 \if@RTL
3943 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3944 \else
3945 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3946 \fi
3947 \vskip-1.2ex%
3948 \usebeamerfont*{frametitle}\strut\insertframetitle%
3949 \ifx\insertframesubtitle\@empty%
3950 \strut\par%
3951 \else
3952 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3953 \fi%%
3954 \usebeamerfont{headline}%
3955 \end{beamercolorbox}%
3956 \nointerlineskip
3957 \vskip-0.2ex%
3958 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3959 \begin{pgfpicture}
3960 \begin{pgfscope}%
3961 \pgfsetfillcolor{frametitle.bg}%
3962 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3963 \pgfsetfading{beamer@belowframetitlemask}{}%
3964 \pgfusepath{fill}%
3965 \end{pgfscope}%
3966 \end{pgfpicture}%
3967 \end{beamercolorbox}%
3968 }
3969
3970
3971 \AtBeginDocument{%
3972 \setbeamertemplate{frametitle}[smoothtree theme]%
3973 }
3974
3975

```

42 File beamerouterthemetree-xetex-bidi.def

```

3976 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3977 \bidi@csundef{beamer@tmpop@headline@tree theme}
3978
3979 \defbeamertemplate*{headline}{tree theme}

```



```

3980 {%
3981   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3982   \end{beamercolorbox}
3983   \if@RTL
3984   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3985     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3986   \else
3987   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3989   \fi
3990   \usebeamerfont{title in head/foot}\insertshorttitle
3991   \end{beamercolorbox}
3992   \if@RTL
3993   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3995   \else
3996   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3997     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3998   \fi
3999   \usebeamerfont{section in head/foot}%
4000   \ifbeamer@tree@showhooks
4001     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4002     \ifdim\wd\beamer@tempbox>1pt%
4003       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4004       \hskip1pt%
4005     \fi%
4006   \else%
4007     \hskip6pt%
4008   \fi%
4009   \insertsectionhead
4010   \end{beamercolorbox}
4011   \if@RTL
4012   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4013     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4014   \else
4015   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4016     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4017   \fi
4018   \usebeamerfont{subsection in head/foot}%
4019   \ifbeamer@tree@showhooks
4020     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4021     \ifdim\wd\beamer@tempbox>1pt%
4022       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4023       \hskip1pt%
4024     \fi%
4025   \else%
4026     \hskip12pt%
4027   \fi%
4028   \insertsubsectionhead
4029   \end{beamercolorbox}
4030   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4031   \end{beamercolorbox}
4032 }
4033

```



4034

43 File beamerthemeHannover-xetex-bidi.def

```
4035 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4036 \AtBeginDocument{%
4037   \if@RTLmain
4038     \setbeamertemplate{frametitle}[default][left]%
4039   \else
4040     \setbeamertemplate{frametitle}[default][right]%
4041   \fi
4042 }
4043
4044
```

44 File beamerthemeSingapore-xetex-bidi.def

```
4045 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4046 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4047
4048 \beamertemplatedotitem
4049
4050 \AtBeginDocument{%
4051   \setbeamertemplate{frametitle}[default][center]%
4052 }
4053
4054
```

45 File bidi.sty

```
4055 \NeedsTeXFormat{LaTeX2e}
4056 \def\bididate{2025/02/02}
4057 \def\bidi@version{25.2.2}
4058 \def\bidi@releasename{Maryam Mirzakhani}
4059 \newcommand*{\bidi@releasename}{\bidi@releasename}
4060 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space
4061 Bidirectional typesetting in plain TeX and LaTeX]
4062 \newif\if@bidi@banner
4063 \newif\if@bidi@pdfbanner
4064 \newif\if@bidi@debug
4065 \newif\if@extrafootnotefeatures
4066 \newif\if@nonlatin
4067 \newif\if@bidi@pdfmark
4068 \newif\if@bidi@perpage@footnote
4069 \ExplSyntaxOn
4070 \msg_new:nnn {bidi} {cannot-use-engine}
4071 {
4072   Oops!~can~not~use~\c_sys_engine_str.\\\
4073   The~bidi~package~requires~XeTeX.
4074 }
4075 \sys_if_engine_xetex:F
4076 {
4077   \msg_fatal:nn {bidi} {cannot-use-engine}
4078 }
```



```

4079
4080 \keys_define:nn { bidi }
4081 {
4082   banner .choice: ,
4083   banner / on .code:n = \@bidi@bannertrue ,
4084   banner / off .code:n = \@bidi@bannerfalse ,
4085   banner .default:n = on
4086 }
4087 \keys_define:nn { bidi }
4088 {
4089   PDFbanner .choice: ,
4090   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4091   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4092   PDFbanner .default:n = on
4093 }
4094 \keys_define:nn { bidi }
4095 {
4096   RTLdocument .choice: ,
4097   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4098   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4099   RTLdocument .default:n = on
4100 }
4101 \keys_define:nn { bidi }
4102 {
4103   rldocument .choice: ,
4104   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4105   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4106   rldocument .default:n = on
4107 }
4108 \keys_define:nn { bidi }
4109 {
4110   documentdirection .choice: ,
4111   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4112   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4113 }
4114 \keys_define:nn { bidi }
4115 {
4116   tabledirection .choice: ,
4117   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4118   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4119 }
4120 \keys_define:nn { bidi }
4121 {
4122   footnotedirection .choice: ,
4123   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4124   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   debugfootnotedirection .choice: ,
4129   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4130   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4131   debugfootnotedirection .default:n = on
4132 }

```



```

4133 \keys_define:nn { bidi }
4134 {
4135   footnoterule .choice: ,
4136   footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4137   footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4138   footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4139   footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4140   footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4141 }
4142 \keys_define:nn { bidi }
4143 {
4144   extrafootnotefeatures .choice: ,
4145   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4146   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4147   extrafootnotefeatures .default:n = on
4148 }
4149 \keys_define:nn { bidi }
4150 {
4151   script .choice: ,
4152   script / latin .code:n = \@nonlatinfalse ,
4153   script / nonlatin .code:n = \@nonlatintrue ,
4154   script .default:n = latin
4155 }
4156 \keys_define:nn { bidi }
4157 {
4158   DetectColumn .choice: ,
4159   DetectColumn / on .code:n =
4160     \def\bidi@firstcolumn@status@write{%
4161       \protected@write\@auxout{%
4162         {\string\bidi@column@status
4163           {1}}}
4164     \def\bidi@lastcolumn@status@write{%
4165       \protected@write\@auxout{%
4166         {\string\bidi@column@status{2}}} ,
4167   DetectColumn / off .code:n =
4168     \let\bidi@firstcolumn@status@write\relax
4169     \let\bidi@lastcolumn@status@write\relax ,
4170   DetectColumn .default:n = on
4171 }
4172 \keys_define:nn { bidi }
4173 {
4174   logo .choice: ,
4175   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4176   logo / off .code:n = \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty ,
4177   logo .default:n = on
4178 }
4179 \keys_define:nn { bidi }
4180 {
4181   pdfinfo .choice: ,
4182   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4183   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4184   pdfinfo .default:n = on
4185 }
4186 % The `perpagefootnote' option is documented in UK TeX FAQ at

```



```

4187% <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4188\keys_define:nn { bidi }
4189 {
4190   perpagefootnote .choice: ,
4191   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4192   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4193   perpagefootnote .default:n = on
4194 }
4195\keys_set:nn { bidi }
4196 {
4197   banner = on ,
4198   PDFbanner = on ,
4199   DetectColumn = off
4200 }
4201 }
4202\ExplSyntaxOff
4203\ProcessKeyOptions
4204\edef\@bidi@info{*****^J%
4205 * ^J%
4206 * bidi package (Bidirectional typesetting in^J%
4207 * plain TeX and LaTeX, using XeTeX engine)^J%
4208 * ^J%
4209 * Description: A convenient interface for^J%
4210 * typesetting bidirectional texts in plain TeX^J%
4211 * and LaTeX. The package includes adaptations^J%
4212 * for use with many other commonly-used packages.^J%
4213 * ^J%
4214 * Copyright (c) 2007--2025 Vafa Khalighi^J%
4215 * Copyright (c) 2018--2020 bidi-tex GitHub organization^J%
4216 * ^J%
4217 * v\bidi@version\space (Release \bidi@releasename), \bididate^J%
4218 * ^J%
4219 * License: LaTeX Project Public License, version^J%
4220 * 1.3c or higher (your choice)^J%
4221 * ^J%
4222 * Location on CTAN: /macros/xetex/latex/bidi^J%
4223 * ^J%
4224 * Issue tracker: https://github.com/xepersian/bidi/issues^J%
4225 * ^J%
4226 * Discussions: https://github.com/xepersian/bidi/discussions^J%
4227 * ^J%
4228 * Primary author of bidi package: Vafa Khalighi.^J%
4229 * ^J%
4230 *****}
4231\edef\bidi@everyjob{\the\everyjob}
4232\if@bidi@banner
4233 \typeout{\@bidi@info}
4234 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4235\fi
4236\newcommand*{\bidiversion}{\ensuremath\bidi@version}
4237\RequirePackage{biditools}
4238\RequirePackage{zref-abspage}
4239\RequirePackage{auxhook}
4240\RequirePackage{ltxcmds}

```



```

4241 \eqnewif{\if@RTLmain}{\if@rlmain}
4242 \eqnewif{\if@RTL}{\if@rl}
4243 \newcommand*\setlatin{\@nonlatinfalse}
4244 \newcommand*\setnonlatin{\@nonlatintrue}
4245 \eqnewif{\if@RTLtab}{\if@tab@rl}
4246 \newif\if@hboxRconstruct
4247 \newif\if@bidi@pdfencrypt
4248 \newcommand*\setRTLtable{\@RTLtabtrue}
4249 \newcommand*\setLTRtable{\@RTLtabfalse}
4250 \newif\if@RTLMarginpar
4251 \newif\if@LTRmarginpar
4252 \newif\if@LTRbibitems
4253 \newif\if@RTLbibitems
4254 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4255 \newif\if@bidi@list@minipage@parbox
4256 \newif\if@bidi@list@minipage@parbox@not@nob
4257 \newcommand*\@bidi@pdfcreator{%
4258   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4259 }
4260 \newcommand*\@bidi@pdfproducer{%
4261   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4262 }
4263 \newcommand*\@bidi@pdfcustomproperties{%
4264   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4265   Released February 2, 2025.
4266 }
4267 \newcommand*\@bidi@beamer@ragged{}
4268 \@RTLmainfalse
4269 \AtBeginDocument{%
4270   \if@RTLmain\else
4271     \if@RTL\@RTLmaintrue%
4272     \else\@RTLmainfalse%
4273     \fi%
4274   \fi%
4275 }
4276 \let\n@xt=\
4277 \bidi@newrobustcmd*\LRE{\protect\pLRE}%
4278 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4279 \bidi@newrobustcmd*\RLE{\protect\pRLE}
4280 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4281 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4282 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4283 \newinsert\@bidi@copyins@
4284 \skip\@bidi@copyins@=12\p@
4285 \dimen\@bidi@copyins@=40pc
4286 \count\@bidi@copyins@=1000
4287 \newcommand*\@bidi@inslogo@\@insert\@bidi@copyins@\@bidi@logo@}
4288 \newcommand*\@bidi@logo@hb@xt@columnwidth{%
4289   \if@RTLmain
4290     \if@twocolumn
4291       \hboxR to \columnwidth
4292     \else
4293       \hboxR to \textwidth
4294     \fi

```



```

4295 \else
4296   \if@twocolumn
4297     \hboxL to \columnwidth
4298   \else
4299     \hboxL to \textwidth
4300   \fi
4301 \fi
4302 }
4303 \newcommand*{\@bidi@logo}[1]{%
4304   \toks@{%
4305     \setbox\z@\hbox{%
4306       \special{%
4307         pdf:image width 50pt height 50pt (#1)%
4308       }
4309     }%
4310     \dp\z@\z@
4311     \ht\z@=50pt
4312     \wd\z@=50pt
4313     \beginL
4314     \lower20pt\box\z@
4315     \endL
4316   }%
4317   \the\toks@
4318 }
4319 \newcount\bidi@typesethour
4320 \newcount\bidi@typesetminute
4321 \bidi@typesethour=\time
4322 \divide\bidi@typesethour 60
4323 \bidi@typesetminute=-\bidi@typesethour
4324 \multiply\bidi@typesetminute 60
4325 \advance\bidi@typesetminute \time
4326 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4327 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4328 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4329 \newcommand*{\@bidi@logo@}{%
4330   \@bidi@logo@hb@xt@columnwidth
4331   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4332     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4333 \ExplSyntaxOn
4334 \keys_define:nn { bidi / pdfencrypt }
4335 {
4336   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4337   userpassword .default:n =
4338 }
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4342   ownerpassword .default:n =
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4347   keylength .default:n = 128
4348 }

```




```

4349 \keys_define:nn { bidi / pdfencrypt }
4350 {
4351   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4352   permissionflags .default:n = 2052
4353 }
4354 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4355 \ExplSyntaxOff
4356 \@onlypreamble\pdfencryptsetup
4357 \input{latex-xetex-bidi.def}
4358
4359 \pdfencryptsetup{%
4360   userpassword,%
4361   ownerpassword,%
4362   keylength,%
4363   permissionflags%
4364 }
4365
4366 \if@extrafootnotefeatures
4367   \input{extrafootnotefeatures-xetex-bidi.def}
4368 \fi
4369 \newcount\bidi@digits
4370 \XeTeXinterchartokenstate=\@one
4371 \newXeTeXintercharclass\bidi@digits@charclass
4372 \newXeTeXintercharclass\bidi@sepmark@charclass
4373 \XeTeXcharclass \. \bidi@sepmark@charclass
4374 \XeTeXcharclass \- \bidi@sepmark@charclass
4375 \bidi@digits=\@0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4376 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4377 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4378 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4379 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4380 \bidi@AtEndPreamble{%
4381   \if@bidi@perpage@footnote
4382     \RequirePackage{bidi-perpage}%
4383     \ResetCounterPerPage{footnote}%
4384   \fi
4385   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4386     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4387       \bidi@pdfencryptfalse
4388     \else
4389       \bidi@pdfencrypttrue
4390     \fi
4391   \else
4392     \bidi@pdfencrypttrue
4393   \fi
4394   \if@bidi@pdfencrypt
4395     \special{pdf:encrypt
4396       userpw (\bidi@pdfencrypt@userpassword)
4397       ownerpw (\bidi@pdfencrypt@ownerpassword)
4398       length \bidi@pdfencrypt@keylength
4399       perm \bidi@pdfencrypt@permissionflags
4400     }%
4401   \fi
4402 }

```



```

4403 \if@bidi@pdfbanner
4404 \if@bidi@pdfm@mark
4405   \AtEndDocument{%
4406     \special{pdf:%
4407       docinfo<<%
4408         /Creator(\@bidi@pdfcreator)%
4409         /Producer(\@bidi@pdfproducer)%
4410         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4411         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4412           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4413         }{}%
4414       >>%
4415     }%
4416   }
4417 \else
4418   \AtEndDocument{%
4419     \special{pdf:%
4420       docinfo<<%
4421         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4422         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4423           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4424         }{}%
4425       >>%
4426     }%
4427   }
4428 \fi
4429 \else
4430 \if@bidi@pdfm@mark
4431   \AtEndDocument{%
4432     \special{pdf:%
4433       docinfo<<%
4434         /Creator(\@bidi@pdfcreator)%
4435         /Producer(\@bidi@pdfproducer)%
4436       >>%
4437     }%
4438   }
4439 \fi
4440 \fi

```

46 File bidi.tex

```

4441 \def\bididate{2025/02/02}
4442 \catcode\@=11
4443 \def\bidi@version{25.2.2}
4444 \def\bidi@releasename{Maryam Mirzakhani}
4445 \def\bidi@releasename{\bidi@releasename}
4446 \let \protect \relax
4447 \newlinechar`\^^J
4448 \edef\@bidi@info{*****~^J%
4449 * ~^J%
4450 * bidi package (Bidirectional typesetting in~^J%
4451 * plain TeX and LaTeX, using XeTeX engine)~^J%
4452 * ~^J%
4453 * Description: A convenient interface for~^J%

```



```

4454 * typesetting bidirectional texts in plain TeX^^J%
4455 * and LaTeX. The package includes adaptations^^J%
4456 * for use with many other commonly-used packages.^^J%
4457 * ^^J%
4458 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4459 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4460 * ^^J%
4461 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4462 * ^^J%
4463 * License: LaTeX Project Public License, version^^J%
4464 * 1.3c or higher (your choice)^^J%
4465 * ^^J%
4466 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4467 * ^^J%
4468 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4469 * ^^J%
4470 * Discussions: https://github.com/xepersian/bidi/discussions^^J%
4471 * ^^J%
4472 * Primary author of bidi package: Vafa Khalighi.^^J%
4473 * ^^J%
4474 * *****}
4475 \edef\bidi@everyjob{\the\everyjob}
4476 \message{\@bidi@info}
4477 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4478 \def\bidi@version{%
4479   \relax
4480   \ifmode
4481     \bidi@version
4482   \else
4483     $\bidi@version$
4484   \fi
4485 }
4486 \input iftex.sty
4487 \RequireXeTeX
4488 \newif\if@bidi@pdfm@mark
4489 \newif\if@RTLmain
4490 \newif\if@RTL
4491 \newif\if@hboxRconstruct
4492 \newif\if@sentdir
4493 \newif\if@RTL@footnote
4494 \@RTLmainfalse
4495 \def\setRTLmain{%
4496   \if@RTLmain\else
4497     \if@RTL\@RTLmaintrue%
4498     \else\@RTLmainfalse%
4499   \fi%
4500 \fi%
4501 }
4502 \let\n@xt=\
4503 \protected\def\LRE{\protect\pLRE}%
4504 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt=}
4505 \protected\def\RLE{\protect\pRLE}
4506 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt=}
4507 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi

```



```

4508 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4509 \newinsert\@bidi@copyins@
4510 \skip\@bidi@copyins@=12\p@
4511 \dimen\@bidi@copyins@=40pc
4512 \count\@bidi@copyins@=1000
4513 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4514 \def\@bidi@logo@hb@xt@{%
4515   \ifRTLmain
4516     \hboxR to
4517   \else
4518     \hboxL to
4519   \fi
4520 }
4521 \def\@bidi@logo#1{%
4522   \toks@{%
4523     \setbox\z@\hbox{%
4524       \special{%
4525         pdf:image width 50pt height 50pt (#1)%
4526       }
4527     }%
4528     \dp\z@\z@
4529     \ht\z@=50pt
4530     \wd\z@=50pt
4531     \beginL
4532     \lower20pt\box\z@
4533     \endL
4534   }%
4535   \the\toks@
4536 }
4537 \def\today{\ifcase\month\or
4538   January\or February\or March\or April\or May\or June\or
4539   July\or August\or September\or October\or November\or December\fi
4540   \space\number\day, \number\year}
4541 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4542 \newcount\bidi@typesethour
4543 \newcount\bidi@typesetminute
4544 \bidi@typesethour=\time
4545 \divide\bidi@typesethour 60
4546 \bidi@typesetminute=-\bidi@typesethour
4547 \multiply\bidi@typesetminute 60
4548 \advance\bidi@typesetminute \time
4549 \def\TypesetHour{\two@digits\bidi@typesethour}
4550 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4551 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4552 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hspace{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4553 \def\bidilogo{\@bidi@inslogo@}
4554 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4555 \def\@bidi@pdfcreator{%
4556   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4557 }
4558 \def\@bidi@pdfproducer{%
4559   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4560 }
4561 \def\@bidi@pdfcustomproperties{%

```



```

4562 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4563 Released February 2, 2025.
4564 }
4565 \def\bidi@pdfm@mark{%
4566   \special{pdf:%
4567     docinfo<<%
4568     \if\bidi@pdfm@mark
4569       /Creator(\@bidi@pdfcreator)%
4570       /Producer(\@bidi@pdfproducer)%
4571     \fi
4572     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4573     >>%
4574   }%
4575 }
4576 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4577 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4578 \input plain-xetex-bidi.def
4579 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4580 \catcode~@=12
4581 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4582 \NeedsTeXFormat{LaTeX2e}
4583 \ProvidesPackage{bidi2in1}
4584 \pagestyle{plain}
4585 \newcount\evenpage
4586 \newcount\oddpages
4587 \twocolumn
4588 \def\@oddfoot{\evenpage=\thepage%
4589 \multiply\evenpage by 2%
4590 \oddpages=\the\evenpage%
4591 \advance\oddpages by -1%
4592 \hfil\the\evenpage\hfil\hfil\the\oddpages\hfil}%
4593 \def\@evenfoot{\evenpage=\thepage%
4594 \multiply\evenpage by 2%
4595 \oddpages=\the\evenpage%
4596 \advance\oddpages by -1%
4597 \hfil\the\oddpages\hfil\hfil\the\evenpage\hfil}%
4598 \textwidth 9.49in
4599 \textheight 6.7in
4600 \columnsep 0.9in
4601 \columnseprule 0.125pt
4602 \headheight 0cm
4603 \topmargin 0in
4604 \marginparwidth 0in
4605 \marginparsep 0in
4606 \hoffset 0.05in % Corrected
4607 \voffset -0.5in %top margin space is 1.0in by default
4608 \oddsidemargin 0in
4609 \evensidemargin 0in
4610 \headsep 0cm
4611 \topskip 0cm
4612 \parskip 0.15in %

```



```

4613 \headsep 0pt
4614 \special{papersize=11.69in,8.26in}
4615 \renewcommand\maketitle{\par
4616 \begingroup
4617 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4618 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4619 \long\def\@makefntext##1{\parindent 1em\noindent
4620 \hb@xt@1.8em{%
4621 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4622 \@maketitle
4623 \@thanks
4624 \endgroup
4625 \setcounter{footnote}{0}%
4626 \global\let\thanks\relax
4627 \global\let\maketitle\relax
4628 \global\let\@maketitle\relax
4629 \global\let\@thanks\@empty
4630 \global\let\@author\@empty
4631 \global\let\@date\@empty
4632 \global\let\@title\@empty
4633 \global\let\title\relax
4634 \global\let\author\relax
4635 \global\let\date\relax
4636 \global\let\and\relax
4637 }

```

48 File bidicode.sty

```

4638 \NeedsTeXFormat{LaTeX2e}
4639 \ProvidesPackage{bidicode}
4640 \RequirePackage{xcolor}
4641 \RequirePackage{showexpl}
4642 \definecolor{hellgelb}{rgb}{1,1,0.85}
4643 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4644 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4645 \definecolor{colIdentifier}{rgb}{0,0,0}
4646 \definecolor{colComments}{rgb}{1,0,0}
4647 \definecolor{colString}{rgb}{0,0.5,0}
4648 \lstset{%
4649     language=[LaTeX]TeX,%
4650     float=hbp,%
4651     basicstyle=\ttfamily\small,%
4652     identifierstyle=\color{colIdentifier},%
4653     keywordstyle=\color{colKeys},%
4654     texcsstyle=*\color{colCS},%
4655     stringstyle=\color{colString},%
4656     commentstyle=\color{colComments},%
4657     backgroundcolor=\color{hellgelb},%
4658     columns=flexible,%
4659     tabsize=4,%
4660     extendedchars=true,%
4661     showspaces=false,%
4662     showstringspaces=false,%
4663     numbers=left,%

```



```

4664     numbersep=0.9em,%
4665     numberstyle=\tiny,%
4666     frame=single,%
4667     captionpos=b,%
4668     xleftmargin=1em,%
4669     breaklines=true,%
4670     breakautoindent=false,%
4671     breakindent=0pt,%
4672     escapeinside=**,%
4673     pos=r,%
4674     explpreset={%
4675         xleftmargin=1em,%
4676         columns=flexible,%
4677         language=[LaTeX]TeX%
4678     },%
4679     moretexcs={%
4680         bididate,%
4681         bidiversion,%
4682         deflatinfont,%
4683         defpersianfont,%
4684         ding,%
4685         endLTR,%
4686         endRTL,%
4687         false,%
4688         falsesymbol,%
4689         junicode,%
4690         lr,%
4691         LR,%
4692         LRE,%
4693         LTR,%
4694         maketitle,%
4695         Nastaliq,%
4696         newfontfamily,%
4697         Parsifont,%
4698         part,%
4699         RL,%
4700         RLE,%
4701         RTL,%
4702         RTLcases,%
4703         SepMark,%
4704         setLR,%
4705         setLTR,%
4706         setRL,%
4707         setRTL,%
4708         settextrfont,%
4709         subsection,%
4710         subsubsection,%
4711         tableofcontents,%
4712         text,%
4713         theequation,%
4714         thesection,%
4715         true,%
4716         truesymbol,%
4717         XePersian,%

```



```

4718     xepersiandate,%
4719     xepersianversion%
4720   }%
4721 }
4722 \newcommand\HLON{%
4723   \gdef\lst@alloverstyle##1{%
4724     \fboxrule=0pt
4725     \fboxsep=0pt
4726     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4727   }}
4728 \newcommand\HLOFF{%
4729   \xdef\lst@alloverstyle##1{##1}%
4730 }
4731 \newcommand\Larg [1]{\normalfont\itshape#1\ /}
4732 \newcommand\Larga[1]{\langle$Larg{#1}$\rangle$}
4733 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4734 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4735 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4736 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4737 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4738
4739 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4740 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4741 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`}}
4742 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4743 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4744 \DeclareRobustCommand\lrb{\normalfont\ttfamily()}
4745 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}}
4746
4747 \def\Lcs#1{\nxLcs{#1}}
4748 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4749 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4750
4751 \def\Coordx#1{${x}_{#1}$}
4752 \def\Coordy#1{${y}_{#1}$}
4753 \def\Coordz#1{${z}_{#1}$}
4754 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4755 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4756 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4757 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4758 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4759 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4760 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4761 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4762 \def\coordx#1{(${x}_{#1}$)}
4763 \def\coordy#1{(${y}_{#1}$)}
4764 \def\coordz#1{(${z}_{#1}$)}
4765 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4766 \def\ciiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}})
4767
4768 \newsavebox{\boxdef}
4769 \newenvironment{BDef}
4770   {\begin{lrbox}\boxdef
4771     \def\arraystretch{1.0}

```




```

4772     \begin{tabular}{@{}l@{}l@{}l@{}}
4773   }
4774   {\end{tabular}\end{lrbox}
4775
4776   {\BCmd\fbox{\usebox\boxdef}\endBCmd}
4777   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4778   }
4779
4780 \newenvironment{BDef*}
4781   {\begin{lrbox}\boxdef
4782     \def\arraystretch{1.0}
4783     \begin{tabular}{@{}l@{}l@{}l@{}}
4784   }
4785   {\end{tabular}\end{lrbox}
4786   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4787   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4788   }
4789 \newenvironment{BCmd}{
4790   \@beginparpenalty-\@lowpenalty
4791   \topsep\BDefaboveskip
4792   \fboxsep3pt
4793   \flushleft}
4794   {\@endparpenalty\@M
4795   \@topsepadd\BDefbelowskip
4796   \endflushleft}
4797
4798 \newenvironment{BCmd*}{
4799   \@beginparpenalty\@M
4800   \topsep\BDefinlineskip
4801   \fboxsep3pt
4802   \flushleft}
4803   {\@endparpenalty5000
4804   \endflushleft}
4805
4806 \newskip\BDefaboveskip
4807 \newskip\BDefbelowskip
4808 \newskip\BDefinlineskip
4809 \setlength\BDefaboveskip{10pt plus 4pt}
4810 \setlength\BDefbelowskip{6pt}
4811 \setlength\BDefinlineskip{6pt}
4812
4813 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4814 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4815 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4816 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4817 \NeedsTeXFormat{LaTeX2e}
4818 \ProvidesPackage{bidiftnxtra}
4819 \newtoks\bidip@ftn
4820 \let\FN@sf@footnote\footnote
4821 \let\FN@sf@LTRfootnote\LTRfootnote
4822 \let\FN@sf@RTLfootnote\RTLfootnote

```



```

4823 \def\footnote{\ifx\protect\@typeset@protect
4824   \expandafter\FN@sf@@footnote
4825   \else
4826     \expandafter\FN@sf@gobble@opt
4827   \fi
4828 }
4829 \def\LTRfootnote{\ifx\protect\@typeset@protect
4830   \expandafter\FN@sf@@LTRfootnote
4831   \else
4832     \expandafter\FN@sf@gobble@opt
4833   \fi
4834 }
4835 \def\RTLfootnote{\ifx\protect\@typeset@protect
4836   \expandafter\FN@sf@@RTLfootnote
4837   \else
4838     \expandafter\FN@sf@gobble@opt
4839   \fi
4840 }
4841 \edef\FN@sf@gobble@opt{\noexpand\protect
4842   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
4843 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
4844   \@ifnextchar[%]
4845     \FN@sf@gobble@twobrace
4846     \@gobble
4847 }
4848 \def\FN@sf@gobble@twobrace[#1]#2{}
4849 \let\FN@sf@@footnotemark\footnotemark
4850 \def\footnotemark{\ifx\protect\@typeset@protect
4851   \expandafter\FN@sf@@footnotemark
4852   \else
4853     \expandafter\FN@sf@gobble@optonly
4854   \fi
4855 }
4856 \edef\FN@sf@gobble@optonly{\noexpand\protect
4857   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
4858 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
4859   \@ifnextchar[%]
4860     \FN@sf@gobble@bracket
4861     {}%
4862 }
4863 \def\FN@sf@gobble@bracket[#1]{}
4864 \def\@tabular{%
4865   \leavevmode \hbox \bgroup
4866   \let\@footnotetext\bidip@ftntext
4867   \let\@LTRfootnotetext\bidip@LTRftntext
4868   \let\@RTLfootnotetext\bidip@RTLftntext
4869   \let\@xfootnotenext\bidip@xftntext
4870   \let\@xfootnote\bidip@xfootnote
4871   \let\@xLTRfootnotenext\bidip@xLTRftntext
4872   \let\@xLTRfootnote\bidip@xLTRfootnote
4873   \let\@xRTLfootnotenext\bidip@xRTLftntext
4874   \let\@xRTLfootnote\bidip@xRTLfootnote
4875   \if@RTLtab\beginR \fi
4876   $\let\@acol\@tabacol

```



```

4877 \let\@classz\@tabclassz
4878 \let\@classiv\@tabclassiv \let\@tabularcr\@tabarray}
4879 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4880 \egroup $\if@RTLtab\endR\fi\egroup
4881 \ifx\@capttype\@undefined
4882 \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}
4883 \long\def\bidip@ftntext#1{%
4884 \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
4885 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4886 \long\def\bidip@LTRftntext#1{%
4887 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4888 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4889 \long\def\bidip@RTLftntext#1{%
4890 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4891 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4892
4893
4894 \long\def\bidip@xftntext[#1]#2{%
4895 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4896
4897 \long\def\bidip@xLTRftntext[#1]#2{%
4898 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4899
4900 \long\def\bidip@xRTLftntext[#1]#2{%
4901 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4902
4903
4904 \def\bidip@xfootnote[#1]{%
4905 \begingroup
4906 \csname c@\@mpfn\endcsname #1\relax
4907 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4908 \endgroup
4909 \@footnotemark\bidip@xftntext[#1]}
4910
4911
4912 \def\bidip@xLTRfootnote[#1]{%
4913 \begingroup
4914 \csname c@\@mpfn\endcsname #1\relax
4915 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4916 \endgroup
4917 \@footnotemark\bidip@xLTRftntext[#1]}
4918
4919
4920 \def\bidip@xRTLfootnote[#1]{%
4921 \begingroup
4922 \csname c@\@mpfn\endcsname #1\relax
4923 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4924 \endgroup
4925 \@footnotemark\bidip@xRTLftntext[#1]}
4926
4927 \def\@xfloat #1[#2]{%
4928 \@nodocument
4929 \def \@capttype {#1}%
4930 \def \@fps {#2}%

```



```

4931 \@onelevel@sanitize \@fps
4932 \def \reserved@b {!}%
4933 \ifx \reserved@b \@fps
4934   \@fpsadddefault
4935 \else
4936   \ifx \@fps \@empty
4937     \@fpsadddefault
4938   \fi
4939 \fi
4940 \ifhmode
4941   \@bsphack
4942   \@floatpenalty -\@Mii
4943 \else
4944   \@floatpenalty-\@Miii
4945 \fi
4946 \ifinner
4947   \@parmoderr\@floatpenalty\z@
4948 \else
4949   \@next\@currbox\@freelist
4950   {%
4951     \@tempcnta \sixt@n
4952     \expandafter \@tfor \expandafter \reserved@a
4953     \expandafter : \expandafter =\@fps
4954     \do
4955     {%
4956       \if \reserved@a h%
4957         \ifodd \@tempcnta
4958       \else
4959         \advance \@tempcnta \@ne
4960       \fi
4961     \fi
4962     \if \reserved@a t%
4963       \@setfpsbit \tw@
4964     \fi
4965     \if \reserved@a b%
4966       \@setfpsbit 4%
4967     \fi
4968     \if \reserved@a p%
4969       \@setfpsbit 8%
4970     \fi
4971     \if \reserved@a !%
4972       \ifnum \@tempcnta>15
4973         \advance\@tempcnta -\sixt@n\relax
4974       \fi
4975     \fi
4976   }%
4977   \@tempcntb \csname ftype@\@cuptype \endcsname
4978   \multiply \@tempcntb \@xxxii
4979   \advance \@tempcnta \@tempcntb
4980   \global \count\@currbox \@tempcnta
4981   }%
4982   \@fltovf
4983 \fi
4984 \global \setbox\@currbox

```



```

4985 \color@vbox
4986 \normalcolor
4987 \vbox \bgroup
4988 \let\@footnotetext\bidip@fnttext
4989 \let\@LTRfootnotetext\bidip@LTRfnttext
4990 \let\@RTLfootnotetext\bidip@RTLfnttext
4991 \let\@xfootnotenext\bidip@xftntext
4992 \let\@xfootnote\bidip@xfootnote
4993 \let\@xLTRfootnotenext\bidip@xLTRfnttext
4994 \let\@xLTRfootnote\bidip@xLTRfootnote
4995 \let\@xRTLfootnotenext\bidip@xRTLfnttext
4996 \let\@xRTLfootnote\bidip@xRTLfootnote
4997 \hsize\columnwidth
4998 \@parboxrestore
4999 \@floatboxreset
5000 }
5001 \def \@endfloatbox{%
5002 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
5003 \@minipagefalse
5004 \outer@nobreak
5005 \egroup %% end of vbox
5006 \global\bidip@fnt\expandafter{\expandafter}\the\bidip@fnt
5007 \color@endbox
5008 }

```

50 File bidimoderncv.cls

```

5009 \NeedsTeXFormat{LaTeX2e}
5010 \ProvidesClass{bidimoderncv}
5011 \newif\if@DEBUG\@DEBUGfalse
5012 \DeclareOption{a4paper}{
5013 \setlength\paperheight{297mm}
5014 \setlength\paperwidth{210mm}}
5015 \DeclareOption{a5paper}{
5016 \setlength\paperheight{210mm}
5017 \setlength\paperwidth{148mm}}
5018 \DeclareOption{b5paper}{
5019 \setlength\paperheight{250mm}
5020 \setlength\paperwidth{176mm}}
5021 \DeclareOption{letterpaper}{
5022 \setlength\paperheight{11in}
5023 \setlength\paperwidth{8.5in}}
5024 \DeclareOption{legalpaper}{
5025 \setlength\paperheight{14in}
5026 \setlength\paperwidth{8.5in}}
5027 \DeclareOption{executivepaper}{
5028 \setlength\paperheight{10.5in}
5029 \setlength\paperwidth{7.25in}}
5030 \DeclareOption{landscape}{
5031 \setlength\@tempdima{\paperheight}
5032 \setlength\paperheight{\paperwidth}
5033 \setlength\paperwidth{\@tempdima}}
5034 \newcommand\@ptsize{}
5035 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}

```



```

5036 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5037 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5038 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5039 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5040 \newif\if@colour\@colourtrue
5041 \DeclareOption{nocolour}{\@colourfalse}
5042 \ExecuteOptions{a4paper,11pt,colour,final}
5043 \ProcessOptions\relax
5044 \input{size1\@ptsize.clo}
5045 \RequirePackage{color}
5046 \RequirePackage{graphicx}
5047 \RequirePackage{ifthen}
5048 \RequirePackage{marvosym}
5049 \addtolength{\oddsidemargin}{-54pt}
5050 \addtolength{\textwidth}{109pt}
5051 \addtolength{\topmargin}{-70pt}
5052 \addtolength{\textheight}{122pt}
5053 \addtolength{\marginparsep}{-5pt}
5054 \addtolength{\marginparwidth}{-10pt}
5055 \RequirePackage{url}
5056 \RequirePackage{hyperref}
5057 \hypersetup{%
5058   breaklinks,
5059   baseurl      = http://,%
5060   pdfborder    = 0 0 0,%
5061   pdfpagemode  = UseNone,%
5062   pdfstartpage = 1}
5063 \AtEndOfClass{%
5064   \AtBeginDocument{%
5065     \hypersetup{%
5066       pdfauthor    = \@firstname~\@familyname,%
5067       pdftitle     = \@title,%
5068       pdfsubject   = \@firstname~\@familyname,%
5069       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}}
5070 \urlstyle{tt}
5071 \RequirePackage{fancyhdr}
5072 \fancypagestyle{plain}{%
5073   \renewcommand{\headrulewidth}{0pt}
5074   \renewcommand{\footrulewidth}{0pt}
5075   \fancyhf{}}
5076 \pagestyle{plain}
5077 \setlength\lineskip{1\p@}
5078 \setlength\normallineskip{1\p@}
5079 \renewcommand\baselinestretch{}
5080 \setlength{\parindent}{0pt}
5081 \setlength{\parskip}{0pt}
5082 \setlength\columnsep{10\p@}
5083 \setlength\columnseprule{0\p@}
5084 \pagestyle{empty}
5085 \pagenumbering{arabic}
5086 \raggedbottom
5087 \onecolumn
5088 \providecommand*\listitemsymbol{\textbullet}
5089 \providecommand*\addresssymbol{}

```



```

5090 \providecommand*\mobilesymbol{\Mobilefone}
5091 \providecommand*\phonesymbol{\Telefon}
5092 \providecommand*\faxsymbol{\FAX}
5093 \providecommand*\emailsymbol{\Letter}
5094 \definecolor{firstnamecolor}{rgb}{0,0,0}
5095 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5096 \def\familynamcolour#1{\gdef\@familynamcolour{\addfontfeature{Color=#1}}}
5097 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5098 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5099 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5100 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5101 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5102 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5103 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5104 \providecommand*\firstnamefont{}
5105 \providecommand*\familynamefont{}
5106 \providecommand*\titlefont{}
5107 \providecommand*\addressfont{}
5108 \providecommand*\quoteftfont{}
5109 \providecommand*\sectionfont{}
5110 \providecommand*\subsectionfont{}
5111 \providecommand*\hintfont{\small}
5112 \providecommand*\firstnamestyle[1]{\{\@firstnamefont\@firstnamecolour#1}}
5113 \providecommand*\familynamestyle[1]{\{\@familynamefont\@familynamcolour#1}}
5114 \providecommand*\titlestyle[1]{\{\@titlefont\@titlecolour#1}}
5115 \providecommand*\addressstyle[1]{\{\@addressfont\@addresscolour#1}}
5116 \providecommand*\quotestyle[1]{\{\@quoteftfont\@quotecolour#1}}
5117 \providecommand*\sectionstyle[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5118 \providecommand*\subsectionstyle[1]{\{\@subsectionfont\@subsectioncolour#1}}
5119 \providecommand*\hintstyle[1]{\{\@hintfont\@hintcolour#1}}
5120 \newcommand*\cvtheme[2]{}
5121 \def\@cvtheme{#2}
5122 \def\@cvthemeoptions{#1}
5123 \cvtheme{bidi-casual}
5124 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5125 \newcommand*\resumename[1]{\def\@resumename{#1}}
5126 \newcommand*\firstname[1]{\def\@firstname{#1}}
5127 \newcommand*\familyname[1]{\def\@familyname{#1}}
5128 \renewcommand*\title[1]{\def\@title{#1}}
5129 \newcommand*\address[1]{\def\@address{#1}}
5130 \newcommand*\mobile[1]{\def\@mobile{#1}}
5131 \newcommand*\phone[1]{\def\@phone{#1}}
5132 \renewcommand*\fax[1]{\def\@fax{#1}}
5133 \newcommand*\email[1]{\def\@email{#1}}
5134 \newcommand*\extrainfo[1]{\def\@extrainfo{#1}}
5135 \def\@photowidth{0pt}
5136 \newcommand*\photo[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5137 \newcommand*\quote[1]{\def\@quote{#1}}
5138 \newlength{\quotewidth}
5139 \newlength{\hintscolumnwidth}
5140 \newlength{\separatorcolumnwidth}
5141 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5142 \newlength{\maincolumnwidth}
5143 \newlength{\doubleitemmaincolumnwidth}

```



```

5144 \newlength{\listitemsymbolwidth}
5145 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
5146 \newlength{\listitemmaincolumnwidth}
5147 \newlength{\listdoubleitemmaincolumnwidth}
5148 \newcommand*{\recomputethemelengths}{%
5149 \newcommand*{\recomputelengths}{%
5150 \setlength{\quotewidth}{0.65\textwidth}%
5151 \setlength{\maincolumnwidth}{\textwidth}%
5152 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5153 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5154 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5155 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5156 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5158 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5159 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5160 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5161 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5162 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5163 \renewcommand{\headwidth}{\textwidth}%
5164 \recomputethemelengths}
5165 \setlength{\hintscolumnwidth}{0.15\textwidth}
5166 \recomputelengths
5167 \title{}
5168 \renewcommand*{\maketitle}{}
5169 \newcommand*{\section}[1]{%
5170 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5171 \phantomsection}%
5172 \addcontentsline{toc}{part}{#1}%
5173 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5174 \hspace{\separatorcolumnwidth}}%
5175 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
5176 \newcommand*{\subsection}[1]{%
5177 \cvline[0.45em]{\subsectionstyle{#1}}}}
5178 \newcommand*{\cvline}[3][.25em]{%
5179 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5180 \bidi@raggedleft\hintfont{#2} &{#3}%
5181 \end{tabular}}\}[#1]}
5182 \newcommand*{\cvdoubleitem}[4]{%
5183 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5184 \hfill%
5185 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5186 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
5187 \cvline[0pt]{\#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}}
5188 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
5189 \cvline[0pt]{\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5190 \hfill%
5191 \ifthenelse{\equal{#3}{}}%
5192 {}%
5193 {\#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5194 \newcommand*{\cventry}[6]{%
5195 \cvline{#1}{%
5196 {\bfseries#2}%
5197 \ifx#3\else{, \slshape#3}\fi%

```




```

5198 \ifx#4\else{, #4}\fi%
5199 \ifx#5\else{, #5}\fi%
5200 .%
5201 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5202 }%
5203 \newcommand*\cvlanguage}[3]{%
5204 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}}{#3}{#4}}
5205 \newcommand*\cvcomputer}[4]{%
5206 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5207 \newcommand*\link}[2][ ]{%
5208 \ifthenelse{\equal{#1}{}}{
5209 \href{#2}{#2}}{
5210 \href{#2}{#1}}
5211 \newcommand*\httplink}[2][ ]{%
5212 \ifthenelse{\equal{#1}{}}{
5213 \href{http://#2}{#2}}{
5214 \href{http://#2}{#1}}
5215 \newcommand*\emailink}[2][ ]{%
5216 \ifthenelse{\equal{#1}{}}{
5217 \href{mailto:#2}{#2}}{
5218 \href{mailto:#2}{#1}}
5219 \newif\if@displaypagenumbers\@displaypagenumberstrue
5220 \newcommand*\nopagenumbers{\@displaypagenumbersfalse}
5221 \AtBeginDocument{%
5222 \if@displaypagenumbers%
5223 \ifundefined{r@lastpage}{
5224 \ifthenelse{\pageref{lastpage} > 1}{
5225 \fancypagestyle{plain}{
5226 \fancyfoot [r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL}}
5227 \pagestyle{plain}}}{
5228 \AtEndDocument{\label{lastpage}}
5229 \fi}
5230 \newlength{\bibindent}
5231 \setlength{\bibindent}{1.5em}
5232 \newcommand*\bibliographyitemlabel{\includegraphics{bidi-bibitem.pdf}}
5233 \newenvironment{thebibliography}[1]{%
5234 {%
5235 \section{\refname}%
5236 \small%
5237 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5238 \bidi@thebibliography@font@hook%
5239 \begin{list}{\bibliographyitemlabel}%
5240 {%
5241 \setlength{\topsep}{0pt}%
5242 \setlength{\labelwidth}{\hintscolumnwidth}%
5243 \setlength{\labelsep}{\separatorcolumnwidth}%
5244 \leftmargin\labelwidth%
5245 \advance\leftmargin\labelsep%
5246 \@openbib@code%
5247 \usecounter{enumiv}%
5248 \let\p@enumiv\@empty%
5249 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5250 \sloppy\clubpenalty4000\widowpenalty4000%
5251 }%

```



```

5252 {%
5253   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5254   \end{list}%
5255 }
5256 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5257 \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5258 \NeedsTeXFormat{LaTeX2e}
5259 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5260 \newcount\bidi@page@count
5261 \bidi@page@count\@ne
5262 \newcommand*\ResetCounterPerPage}[2][\z@]{%
5263   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5264     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{}%
5265   }{}%
5266   \if@bidi@csundef{if@bidi@reset@#2@rerun}{%
5267     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5268   }{}%
5269   \if@bidi@csundef\bidi@#2@count}{%
5270     \expandafter\newcount\csname bidi@#2@count\endcsname
5271   }{}%
5272   \csname bidi@#2@count\endcsname\z@
5273   \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5274     \expandafter\newcount\csname
5275       bidi@previous@page@@#2@count\endcsname
5276   }{}%
5277   \csname bidi@previous@page@@#2@count\endcsname\z@
5278   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5279     \bidi@AfterEndDocumentCheckLabelsRerun{%
5280       \csname if@bidi@reset@#2@rerun\endcsname
5281       \PackageWarningNoLine{bidi-perpage}{%
5282         Counter `#2' may not have been reset per page.
5283         Rerun to reset counter `#2' per page%
5284       }%
5285     }%
5286   }%
5287 }{}%
5288 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5289   \global\advance\csname bidi@#2@count\endcsname\@ne
5290   \if@filesw
5291     \edef\@tempa{%
5292       \write\@auxout{%
5293         \string\bidi@counter@page{#2}%
5294         {\number\csname bidi@#2@count\endcsname}%
5295         {\noexpand\number\noexpand\bidi@page@count}}%
5296     }%
5297   }%
5298   \@tempa
5299 }%
5300 \begingroup\expandafter\expandafter\expandafter\endgroup
5301 \expandafter\ifx\csname bidi@#2@@\number\csname
5302   bidi@#2@count\endcsname\endcsname\relax

```



```

5303   \global\csname @bidi@reset@#2@reruntrue\endcsname
5304 \else
5305   \global\csname @bidi@reset@#2@rerunfalse\endcsname
5306   \expandafter\@tempcnta\csname bidi@#2@@\number
5307   \csname bidi@#2@count\endcsname\endcsname\relax
5308   \ifnum\@tempcnta=\csname
5309   bidi@previous@page@@#2@count\endcsname
5310   \else
5311     \global\csname
5312     bidi@previous@page@@#2@count\endcsname\@tempcnta
5313     \global\csname c@#2\endcsname#1\relax
5314   \fi
5315 \fi
5316 }%
5317 \expandafter\bidi@gappto\csname
5318 bidi@stepcounterhook@@#2\endcsname{%
5319   \csname bidi@reset@#2@perpage\endcsname
5320 }%
5321 }
5322 \def\bidi@counter@page#1#2#3{\bidi@namegdef{bidi@#1@#2}-{#3}}
5323 \bidi@AtEndOutputPage{%
5324   \global\advance\bidi@page@count\@ne
5325 }

```

52 File `biditools.sty`

```

5326 \NeedsTeXFormat{LaTeX2e}
5327 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5328 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\\relax
5329   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5330   \ifx\@tempa\@tempb \global\let#2#1%
5331   \else
5332     \edef\@tempb{\meaning#2}%
5333     \ifx\@tempa\@tempb
5334     \else
5335       \@latex@error{Unable to properly define \string#2; primitive
5336       \noexpand#1no longer primitive}\@eha
5337     \fi
5338   \fi
5339   \endgroup}
5340 \newtoks\@bidi@envbody
5341 \newtoks\@bidi@emptytoks
5342 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5343 \def\bidi@collect@body#1{%
5344   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5345   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5346   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5347   \begingroup
5348   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
5349   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5350   \bidi@process@envbody
5351 }
5352 \def\bidi@push@begins#1\begin#2{%
5353   \ifx\end#2\else b\expandafter\bidi@push@begins\fi

```



```

5354 }
5355 \def\ bidi@collect@@body#1\end#2{%
5356 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5357 \ifx\@empty\begin@bidi@stack
5358 \endgroup
5359 \@checkend{#2}%
5360 \bidi@addto@envbody{#1}%
5361 \else
5362 \bidi@addto@envbody{#1\end{#2}}%
5363 \fi
5364 \bidi@process@envbody % A little tricky! Note the grouping
5365 }
5366 \long\def\ bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5367 \long\def\ bidi@collect@long@body#1{%
5368 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5369 \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5370 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5371 \begingroup
5372 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5373 \edef\ bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5374 \bidi@process@envbody
5375 }
5376 \long\def\ bidi@push@long@begins#1\begin#2{%
5377 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5378 }
5379 \long\def\ bidi@collect@long@@body#1\end#2{%
5380 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5381 \ifx\@empty\begin@bidi@stack
5382 \endgroup
5383 \@checkend{#2}%
5384 \bidi@addto@long@envbody{#1}%
5385 \else
5386 \bidi@addto@long@envbody{#1\end{#2}}%
5387 \fi
5388 \bidi@process@envbody % A little tricky! Note the grouping
5389 }
5390 \long\def\ bidi@new@ifnextchar#1#2#3{%
5391 \let\reserved@d= #1%
5392 \def\reserved@a{#2}\def\reserved@b{#3}%
5393 \futurelet\@let@token\bidi@new@ifnch
5394 }
5395 \def\ bidi@new@ifnch{%
5396 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5397 \reserved@b
5398 }
5399 \def\ bidi@matrix@check#1{%
5400 \expandafter\ifx\csname\@currentvir\endcsname#1%
5401 \else\bidi@matrix@error#1%
5402 \expandafter\@gobble
5403 \fi
5404 }
5405 \def\ bidi@matrix@error#1{%
5406 \PackageError{biditools}{%
5407 Old form `string#1' should be \string\begin{\expandafter\@gobble\string#1}%

```



```

5408 }{%
5409 `string#1{...}' is old bidi package syntax whose use is
5410 ill-advised in the old versions of bidi package.%
5411 }%
5412 }
5413 \def\eqnewif#1#2{%
5414   \count@\escapechar \escapechar\m@ne
5415   \let#1\iffalse
5416   \let#2\iffalse
5417   \eq@if#1#2\iftrue
5418   \eq@if#1#2\iffalse
5419   \escapechar\count@}
5420 \def\eq@if#1#2#3{%
5421   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5422     \expandafter@gobbletwo\string#3\endcsname
5423     {\let#1#3%
5424     \let#2#3}%
5425   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5426     \expandafter@gobbletwo\string#3\endcsname
5427     {\let#2#3%
5428     \let#1#3}}
5429 \def\noteqnewif#1#2{%
5430   \count@\escapechar \escapechar\m@ne
5431   \let#1\iffalse
5432   \let#2\iffalse
5433   \not@eq@if#1#2\iftrue\iffalse
5434   \escapechar\count@}
5435 \def\not@eq@if#1#2#3#4{%
5436   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5437     \expandafter@gobbletwo\string#3\endcsname
5438     {\let#1#3%
5439     \let#2#4}%
5440   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5441     \expandafter@gobbletwo\string#4\endcsname
5442     {\let#1#4%
5443     \let#2#3}%
5444   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5445     \expandafter@gobbletwo\string#3\endcsname
5446     {\let#2#3%
5447     \let#1#4}%
5448   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5449     \expandafter@gobbletwo\string#4\endcsname
5450     {\let#2#4%
5451     \let#1#3}}
5452 \newcommand*\SetBoolean}[2]{%
5453   \lowercase{\def\@tempa{#2}}%
5454   \@ifundefined{\@tempswa\@tempa}%
5455     {\PackageError{biditytools}%
5456       {You can only set a boolean to `true' or `false'}\@ehc}%
5457     {\@ifundefined{#1\@tempa}%
5458       {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5459       {\csname#1\@tempa\endcsname}}}}
5460 \newcommand*\GlobalSetBoolean}[2]{%
5461   \lowercase{\def\@tempa{#2}}%

```



```

5462 \@ifundefined{@tempswa\@tempa}%
5463   {\PackageError{biditools}%
5464     {You can only set a boolean to `true' or `false'}\@ehc}%
5465   {\@ifundefined{#1\@tempa}%
5466     {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5467     {\global\csname#1\@tempa\endcsname}}}
5468 \newcommand*\SetatBoolean}[2]{%
5469   \lowercase{\def\@tempa{#2}}%
5470   \@ifundefined{@tempswa\@tempa}%
5471     {\PackageError{biditools}%
5472       {You can only set a boolean to `true' or `false'}\@ehc}%
5473     {\@ifundefined{@#1\@tempa}%
5474       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5475       {\csname @#1\@tempa\endcsname}}}
5476 \newcommand*\GlobalSetatBoolean}[2]{%
5477   \lowercase{\def\@tempa{#2}}%
5478   \@ifundefined{@tempswa\@tempa}%
5479     {\PackageError{biditools}%
5480       {You can only set a boolean to `true' or `false'}\@ehc}%
5481     {\@ifundefined{@#1\@tempa}%
5482       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5483       {\global\csname @#1\@tempa\endcsname}}}
5484 \def\@bidi@removefromreset#1#2{%
5485   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5486   \def\@elt##1{%
5487     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5488     \else
5489       \noexpand\@elt{##1}%
5490     \fi}%
5491   \expandafter\xdef\csname c1@#2\endcsname{%
5492     \csname c1@#2\endcsname}}}
5493 \newcommand*\ifRtoL{%
5494   \if@RTL
5495     \expandafter\@firstoftwo
5496   \else
5497     \expandafter\@secondoftwo
5498   \fi}
5499 \newcommand*\ifLtoR{%
5500   \if@RTL
5501     \expandafter\@secondoftwo
5502   \else
5503     \expandafter\@firstoftwo
5504   \fi}
5505 \newcommand*\ifRtoLtable{%
5506   \if@RTLtab
5507     \expandafter\@firstoftwo
5508   \else
5509     \expandafter\@secondoftwo
5510   \fi}
5511 \newcommand*\ifLtoRtable{%
5512   \if@RTLtab
5513     \expandafter\@secondoftwo
5514   \else
5515     \expandafter\@firstoftwo

```



```

5516 \fi}
5517 \newcommand*\ifRtoLhboxconstruct}{%
5518 \if@hboxRconstruct
5519 \expandafter\@firstoftwo
5520 \else
5521 \expandafter\@secondoftwo
5522 \fi}
5523 \newcommand*\ifLtoRhboxconstruct}{%
5524 \if@hboxRconstruct
5525 \expandafter\@secondoftwo
5526 \else
5527 \expandafter\@firstoftwo
5528 \fi}
5529 \newcommand*\iflatin}{%
5530 \if@nonlatin
5531 \expandafter\@secondoftwo
5532 \else
5533 \expandafter\@firstoftwo
5534 \fi}
5535 \newcommand*\ifnonlatin}{%
5536 \if@nonlatin
5537 \expandafter\@firstoftwo
5538 \else
5539 \expandafter\@secondoftwo
5540 \fi}
5541
5542 \newcommand*\bidi@@convert@dimen@t@unit}[2]{%
5543 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5544
5545 \newcommand*\bidi@@convert@dimen@t@pt}[1]{%
5546 \dimexpr #1*65536/\dimexpr 1pt\relax}
5547
5548 \newcommand*\IfPackageVersionAtLeastTF}[1]{%
5549 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5550 }
5551 \newcommand*\@if@ver@pkg@least}[2]{%
5552 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5553 \expandafter\@secondoftwo
5554 \else
5555 \expandafter\@firstoftwo
5556 \fi
5557 }
5558 \newcommand*\bidi@parse@ver@[1]{\bidi@parse@ver0#1}
5559 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5560 \if\relax#2\relax\else#1\fi#2#3#4
5561 }
5562 \newcommand*\IfPackageVersionAtMostTF}[1]{%
5563 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5564 }
5565 \newcommand*\@if@ver@pkg@most}[2]{%
5566 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5567 \expandafter\@secondoftwo
5568 \else
5569 \expandafter\@firstoftwo

```



```

5570 \fi
5571 }
5572 \newcommand*\IfPackageVersionTF}[1]{%
5573 \expandafter\@ifver@pkg@csname #1@version\endcsname
5574 }
5575 \newcommand*\@ifver@pkg}[2]{%
5576 \ifnum\expandafter\@bidi@parse@ver@#100\@nil=\expandafter\@bidi@parse@ver@#200\@nil
5577 \expandafter\@firstoftwo
5578 \else
5579 \expandafter\@secondoftwo
5580 \fi
5581 }
5582
5583 \newcommand*\if@bidi@csdef}[1]{%
5584 \ifcsname#1\endcsname
5585 \expandafter\@firstoftwo
5586 \else
5587 \expandafter\@secondoftwo
5588 \fi}
5589 \newcommand*\if@bidi@csundef}[1]{%
5590 \ifcsname#1\endcsname
5591 \expandafter\ifx\csname#1\endcsname\relax
5592 \expandafter\expandafter
5593 \expandafter\@firstoftwo
5594 \else
5595 \expandafter\expandafter
5596 \expandafter\@secondoftwo
5597 \fi
5598 \else
5599 \expandafter\@firstoftwo
5600 \fi}
5601 \newcommand*\if@bidi@def}[1]{%
5602 \ifdefined#1%
5603 \expandafter\@firstoftwo
5604 \else
5605 \expandafter\@secondoftwo
5606 \fi}
5607 \newcommand*\if@bidi@undef}[1]{%
5608 \ifdefined#1%
5609 \ifx#1\relax
5610 \expandafter\expandafter
5611 \expandafter\@firstoftwo
5612 \else
5613 \expandafter\expandafter
5614 \expandafter\@secondoftwo
5615 \fi
5616 \else
5617 \expandafter\@firstoftwo
5618 \fi}
5619 \newcommand*\if@bidi@blank}[1]{% from url.sty
5620 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5621 \long\def\bidi@ifblank@i#1#2&#3#4#5:#{#4}
5622 \newcommand*\bidi@notblank}[1]{%
5623 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}

```




```

5624 \newcommand{\if@bidi@defmacro}{}
5625 \long\edef\if@bidi@defmacro#1{%
5626   \noexpand\expandafter\noexpand\bidi@ifdefmacro
5627   \noexpand\meaning#1\detokenize{macro}:&}
5628 \edef\bidi@ifdefmacro{%
5629   \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5630 \bidi@ifdefmacro{\bidi@notblank{#2}}
5631 \newcommand*{\if@bidi@csmacro}[1]{%
5632   \if@bidi@csdef{#1}
5633     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5634     {\@secondoftwo}}
5635 \newcommand{\if@bidi@defprimitive}[1]{%
5636   \ifprimitive#1%
5637     \expandafter\@firstoftwo
5638   \else
5639     \expandafter\@secondoftwo
5640   \fi}
5641 \newcommand{\if@bidi@csprimitive}[1]{%
5642   \begingroup\expandafter\expandafter\expandafter\endgroup%
5643   \expandafter\ifprimitive\csname#1\endcsname%
5644   \expandafter\@firstoftwo
5645   \else
5646     \expandafter\@secondoftwo
5647   \fi}
5648 \newcommand*{\bidi@csdefcs}[2]{%
5649   \expandafter\@ifdefinable \csname#1\endcsname{%
5650     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}}
5651 \newcommand*{\bidi@csletcs}[2]{%
5652   \expandafter\@ifdefinable \csname#1\endcsname{%
5653     \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5654 \newcommand*{\bidi@cslet}[2]{%
5655   \expandafter\@ifdefinable \csname#1\endcsname{%
5656     \expandafter\let\csname#1\endcsname#2}}
5657 \newcommand{\bidi@namelongdef}[1]{%
5658   \long\expandafter\def\csname #1\endcsname}
5659 \newcommand{\bidi@namelonggdef}[1]{%
5660   \long\expandafter\gdef\csname #1\endcsname}
5661 \newcommand{\bidi@namelongedef}[1]{%
5662   \long\expandafter\edef\csname #1\endcsname}
5663 \newcommand{\bidi@namelongxdef}[1]{%
5664   \long\expandafter\xdef\csname #1\endcsname}
5665 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5666 \def\bidi@ensure@new@command#1{%
5667   \begingroup \escapechar@m@ne\xdef\@gtempa{\string#1}\endgroup
5668   \expandafter\if@bidi@csundef\@gtempa
5669     {\new@command#1}{\relax%
5670     \let\@ifdefinable\rc@ifdefinable%
5671     \new@command#1}}
5672 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5673
5674 \protected\def\bidi@error{\PackageError{bidi}}
5675 \protected\def\bidi@warning{\PackageWarning{bidi}}
5676 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5677 \protected\def\bidi@info{\PackageInfo{bidi}}

```



```

5678
5679 \def\ bidi@pos#1#2#3#4{\ bidi@namegdef{\ bidi@#1pos@@#2@#3}{#4}}
5680
5681 \newcount\ bidi@poscount
5682
5683 \newcommand*\ WriteStartXPostoaux}{%
5684   \global\advance\ bidi@poscount\@ne
5685   \edef\@tempa{%
5686     \write\@auxout{%
5687       \string\ bidi@pos{x}{start}{\ number\ bidi@poscount}{\ noexpand\ number\ noexpand\ pdflastx
5688     }%
5689   }%
5690   \ifvmode
5691     \leavevmode
5692   \fi
5693 \if@RTL
5694   \if@filesw
5695     \@tempa
5696   \fi
5697 \pdfsavepos
5698 \else
5699 \pdfsavepos
5700 \if@filesw
5701   \@tempa
5702 \fi
5703 \fi
5704 \if\ bidi@csundef{\ bidi@xpos@@start@\ number\ bidi@poscount}{%
5705   \PackageWarningNoLine{\ bidi@tools}{%
5706     The start x position '\ number\ bidi@poscount' is not known yet.
5707     Rerun to get this x position%
5708   }%
5709 }{ }%
5710 }
5711
5712 \newcommand*\ WriteEndXPostoaux}{%
5713   \edef\@tempa{%
5714     \write\@auxout{%
5715       \string\ bidi@pos{x}{end}{\ number\ bidi@poscount}{\ noexpand\ number\ noexpand\ pdflastx
5716     }%
5717   }%
5718 \if@RTL
5719   \if@filesw
5720     \@tempa
5721   \fi
5722 \pdfsavepos
5723 \else
5724 \pdfsavepos
5725 \if@filesw
5726   \@tempa
5727 \fi
5728 \fi
5729 \if\ bidi@csundef{\ bidi@xpos@@end@\ number\ bidi@poscount}{%
5730   \PackageWarningNoLine{\ bidi@tools}{%
5731     The end x position '\ number\ bidi@poscount' is not known yet.

```



```

5732         Rerun to get this x position%
5733     }%
5734 }-{}%
5735 }
5736
5737 \newcommand*{\WriteStartYPostoaux}{%
5738 \global\advance\bidiposcount\@ne
5739 \edef\@tempa{%
5740 \write\@auxout{%
5741 \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfloaty
5742 }%
5743 }%
5744 \ifvmode
5745 \leavevmode
5746 \fi
5747 \if@RTL
5748 \if@filesw
5749 \@tempa
5750 \fi
5751 \pdfsavepos
5752 \else
5753 \pdfsavepos
5754 \if@filesw
5755 \@tempa
5756 \fi
5757 \fi
5758 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5759 \PackageWarningNoLine{biditools}{%
5760 The start y position ` \number\bidiposcount' is not known yet.
5761 Rerun to get this y position%
5762 }%
5763 }-{}%
5764 }
5765
5766 \newcommand*{\WriteEndYPostoaux}{%
5767 \edef\@tempa{%
5768 \write\@auxout{%
5769 \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfloaty
5770 }%
5771 }%
5772 \if@RTL
5773 \if@filesw
5774 \@tempa
5775 \fi
5776 \pdfsavepos
5777 \else
5778 \pdfsavepos
5779 \if@filesw
5780 \@tempa
5781 \fi
5782 \fi
5783 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5784 \PackageWarningNoLine{biditools}{%
5785 The end y position ` \number\bidiposcount' is not known yet.

```



```

5786         Rerun to get this y position%
5787     }%
5788 }{}%
5789 }
5790
5791 \newcommand*{\WriteStartXYPostoaux}{%
5792 \global\advance\ bidi@poscount \@ne
5793 \edef\@tempa{%
5794 \write\@auxout{%
5795 \string\ bidi@pos{x}{start}{\number\ bidi@poscount}{\noexpand\number\noexpand\pdflastx
5796 }%
5797 \write\@auxout{%
5798 \string\ bidi@pos{y}{start}{\number\ bidi@poscount}{\noexpand\number\noexpand\pdflasty
5799 }%
5800 }%
5801 \ifvmode
5802 \leavevmode
5803 \fi
5804 \if@RTL
5805 \if@filesw
5806 \@tempa
5807 \fi
5808 \pdfsavepos
5809 \else
5810 \pdfsavepos
5811 \if@filesw
5812 \@tempa
5813 \fi
5814 \fi
5815 \if\ bidi@csundef{bidi@xpos@@start@\number\ bidi@poscount}{%
5816 \PackageWarningNoLine{biditools}{%
5817 The start x position ` \number\ bidi@poscount' is not known yet.
5818 Rerun to get this x position%
5819 }%
5820 }{}%
5821 \if\ bidi@csundef{bidi@ypos@@start@\number\ bidi@poscount}{%
5822 \PackageWarningNoLine{biditools}{%
5823 The start y position ` \number\ bidi@poscount' is not known yet.
5824 Rerun to get this y position%
5825 }%
5826 }{}%
5827 }
5828
5829 \newcommand*{\WriteEndXYPostoaux}{%
5830 \edef\@tempa{%
5831 \write\@auxout{%
5832 \string\ bidi@pos{x}{end}{\number\ bidi@poscount}{\noexpand\number\noexpand\pdflastx
5833 }%
5834 \write\@auxout{%
5835 \string\ bidi@pos{y}{end}{\number\ bidi@poscount}{\noexpand\number\noexpand\pdflasty
5836 }%
5837 }%
5838 \if@RTL
5839 \if@filesw

```



```

5840   \@tempa
5841   \fi
5842   \pdfsavepos
5843   \else
5844   \pdfsavepos
5845   \if@filesw
5846   \@tempa
5847   \fi
5848   \fi
5849   \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5850       \PackageWarningNoLine{biditools}{%
5851           The end x position `\

```



```

5894 }
5895
5896
5897 \newcommand*{\bidi@newrobustcmd}{-}
5898 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5899
5900 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5901
5902 \def\bidi@newcommand#1[#2]{%
5903   \@ifnextchar[%
5904     {\bidi@xargdef#1[#2]}
5905     {\ifx\l@ngrel@x\relax
5906       \let\l@ngrel@x\protected
5907       \else
5908         \protected\def\l@ngrel@x{\protected\long}%
5909       \fi
5910       \@argdef#1[#2]}}
5911
5912 \long\def\bidi@xargdef#1[#2][#3]#4{%
5913   \ifdefinable#1{%
5914     \expandafter\protected
5915     \expandafter\def
5916     \expandafter#1%
5917     \expandafter{%
5918       \expandafter\@testopt
5919       \csname\string#1\endcsname{#3}}%
5920     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5921
5922 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5923
5924 \def\bidi@renew@command#1{%
5925   \if@bidi@undef{#1}
5926     {\bidi@error{\string#1 undefined}\@ehc}
5927     {}%
5928   \let\@ifdefinable\@rc@ifdefinable
5929   \bidi@new@command#1}
5930
5931
5932
5933 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5934
5935 \def\bidi@provide@command#1{%
5936   \if@bidi@undef{#1}
5937     {\def\reserved@a{\bidi@new@command#1}}
5938     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5939   \reserved@a}
5940
5941 \newcommand*{\bidi@csuse}[1]{%
5942   \ifcsname#1\endcsname
5943     \csname#1\expandafter\endcsname
5944   \fi}
5945
5946 \newcommand{\bidi@expandonce}[1]{%
5947   \unexpanded\expandafter{#1}}

```



```

5948
5949 \def\ bidi@protected{%
5950   \let\@@protect\protect
5951   \let\protect\@unexpandable@protect
5952   \afterassignment\restore@protect}
5953
5954 \bidi@newrobustcmd{\bidi@appto}[2]{%
5955   \if@bidi@undef{#1}
5956     {\edef#1{\unexpanded{#2}}}
5957     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5958 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5959   \if@bidi@undef{#1}
5960     {\edef#1{#2}}
5961     {\edef#1{\bidi@expandonce#1#2}}}
5962 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5963   \if@bidi@undef{#1}
5964     {\xdef#1{\unexpanded{#2}}}
5965     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5966 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5967   \if@bidi@undef{#1}
5968     {\xdef#1{#2}}
5969     {\xdef#1{\bidi@expandonce#1#2}}}
5970
5971 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5972 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5973
5974
5975
5976 \bidi@newrobustcmd{\bidi@preto}[2]{%
5977   \if@bidi@undef{#1}
5978     {\edef#1{\unexpanded{#2}}}
5979     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5980 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5981   \if@bidi@undef{#1}
5982     {\edef#1{#2}}
5983     {\edef#1{#2\bidi@expandonce#1}}}
5984 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5985   \if@bidi@undef{#1}
5986     {\xdef#1{\unexpanded{#2}}}
5987     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5988 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5989   \if@bidi@undef{#1}
5990     {\xdef#1{#2}}
5991     {\xdef#1{#2\bidi@expandonce#1}}}
5992
5993 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5994 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5995
5996
5997
5998 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5999 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6000 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6001 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}

```



```

6002 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6003 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6004
6005
6006
6007 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6008 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6009 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6010 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6011 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6012 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6013
6014
6015
6016 \bidi@newrobustcmd{\if@bidi@patchable}{%
6017   \bidi@dbg@trce\if@bidi@patchable
6018   \beginingroup
6019   \@makeother\#%
6020   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6021
6022 \long\def\bidi@ifpatchable#1#2{%
6023   \endgroup
6024   \bidi@dbg@init#1%
6025   \if@bidi@undef{#1}
6026     {\bidi@dbg@fail{def}\@secondoftwo}
6027     {\bidi@dbg@info{def}%
6028     \if@bidi@defmacro{#1}
6029       {\bidi@dbg@info{mac}%
6030       \bidi@ifscanable{#1}
6031       {\bidi@ifhashcheck{#2}
6032         {\bidi@dbg@info{tok}%
6033         \bidi@ifpattern#1{#2}
6034           {\bidi@dbg@info{pat}%
6035           \bidi@dbg@info{pos}\@firstoftwo}
6036           {\bidi@dbg@fail{pat}\@secondoftwo}}
6037         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6038         {\bidi@dbg@fail{tok}\@secondoftwo}}
6039         {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6040
6041 \long\def\bidi@ifpatchable@i#1{%
6042   \endgroup
6043   \bidi@dbg@init#1%
6044   \if@bidi@undef{#1}
6045     {\bidi@dbg@fail{def}\@secondoftwo}
6046     {\bidi@dbg@info{def}%
6047     \if@bidi@defmacro{#1}
6048       {\bidi@dbg@info{mac}%
6049       \if@bidi@defparam{#1}
6050         {\bidi@dbg@info{prm}%
6051         \bidi@ifscanable{#1}
6052         {\bidi@dbg@info{tok}%
6053         \bidi@dbg@info{pos}\@firstoftwo}
6054         {\bidi@dbg@fail{tok}\@secondoftwo}}
6055         {\bidi@dbg@info{prl}%

```




```

6056         \if@bidi@defprotected{#1}
6057         {\bidi@dbg@info{pro}}
6058         }%
6059         \bidi@dbg@info{pos}\@firstoftwo}}
6060     {\bidi@dbg@fail{mac}\@secondoftwo}}
6061
6062 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6063 \bidi@dbg@trce\bidi@patchcmd
6064 \begingroup
6065 \@makeother\%
6066 \bidi@@patchcmd}
6067
6068 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6069 \bidi@ifpatchable#2{#3}
6070 {\bidi@dbg@succ{ret}}%
6071 \begingroup
6072 \edef\bidi@resrvda{%
6073 \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6074 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6075 \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6076 ####1\detokenize{#4}####2}%
6077 \edef\noexpand\bidi@resrvda{%
6078 \noexpand\bidi@resrvda\meaning#2&}}%
6079 \bidi@resrvda
6080 \bidi@patchcmd@scantoks\bidi@resrvda
6081 \let#2\bidi@resrvda
6082 \bidi@undef\bidi@resrvda
6083 \@firstoftwo}
6084 {\@secondoftwo}}
6085
6086 \def\bidi@patchcmd@scantoks#1{%
6087 \edef\bidi@resrvda{\endgroup
6088 \unexpanded{\makeatletter\scantokens}{#1}%
6089 \catcode\number`\@=\the\catcode`\@ \relax}%
6090 \bidi@resrvda}
6091
6092 \protected\def\bidi@ifscanable#1{%
6093 \begingroup
6094 \edef\bidi@resrvda{%
6095 \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6096 ####1\def\string\bidi@resrvda####2{####3}}%
6097 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6098 \bidi@resrvda
6099 \makeatletter
6100 \scantokens\expandafter{\bidi@resrvda}%
6101 \expandafter\endgroup\ifx#1\bidi@resrvda
6102 \expandafter\@firstoftwo
6103 \else
6104 \expandafter\@secondoftwo
6105 \fi}
6106
6107
6108 \protected\long\def\bidi@ifhashcheck#1{%
6109 \begingroup

```



```

6110 \edef\bidiresrvda{\detokenize{#1}}%
6111 \expandafter\endgroup
6112 \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
6113
6114 \edef\bidifhashcheck@i#1&{%
6115 \noexpand\expandafter
6116 \noexpand\bidifhashcheck@ii
6117 \noexpand\strip@prefix#1\string#\string#&}
6118
6119 \edef\bidifhashcheck@ii{%
6120 \def\noexpand\bidifhashcheck@ii##1\string#\string###2&}
6121 \bidifhashcheck@ii{\if@bidi@blank{#2}}
6122
6123
6124 \protected\long\def\bidifpattern#1#2{%
6125 \begingroup
6126 \edef\bidiresrvda{%
6127 \def\noexpand\bidiresrvda###1\detokenize{#2}###2&{%
6128 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{###2}}%
6129 \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda
6130 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6131 \noexpand\bidiresrvda}
6132 \bidiresrvda\@secondoftwo\@firstoftwo}
6133
6134
6135 \newcommand{\if@bidi@defparam}{%
6136 \long\edef\if@bidi@defparam#1{%
6137 \noexpand\expandafter\noexpand\bidifdefparam
6138 \noexpand\meaning#1\detokenize{macro}:->&}
6139 \edef\bidifdefparam{%
6140 \def\noexpand\bidifdefparam##1\detokenize{macro}:##2->##3&}
6141 \bidifdefparam{\bidinotblank{#2}}
6142
6143
6144 \newcommand{\if@bidi@defprotected}{%
6145 \long\edef\if@bidi@defprotected#1{%
6146 \noexpand\expandafter\noexpand\bidifdefprotected
6147 \noexpand\meaning#1\string\protected&}
6148 \edef\bidifdefprotected{%
6149 \def\noexpand\bidifdefprotected##1\string\protected##2&}
6150 \bidifdefprotected{\bidinotblank{#2}}
6151
6152
6153 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6154 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6155 \expandafter\let\csname #1\endcsname\bidi@undefined
6156 }
6157
6158 \let\bidi@dbg@trce\@gobble
6159 \let\bidi@dbg@init\@gobble
6160 \let\bidi@dbg@info\@gobble
6161 \let\bidi@dbg@succ\@gobble
6162 \let\bidi@dbg@fail\@gobble
6163

```



```

6164
6165
6166 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6167   \bidi@dbg@trce\bidi@apptocmd
6168   \beginngroup
6169   \@makeoother\#%
6170   \bidi@hooktocmd\bidi@append}
6171
6172
6173
6174 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6175   \bidi@dbg@trce\bidi@pretocmd
6176   \beginngroup
6177   \@makeoother\#%
6178   \bidi@hooktocmd\bidi@prepend}
6179
6180 \long\def\bidi@hooktocmd#1#2#3{%
6181   \endgroup
6182   \bidi@dbg@init#2%
6183   \if@bidi@undef{#2}
6184     {\bidi@dbg@fail{def}\@secondoftwo}
6185     {\bidi@dbg@info{def}%
6186       \if@bidi@defmacro{#2}
6187         {\bidi@dbg@info{mac}%
6188           \if@bidi@defparam{#2}
6189             {\bidi@dbg@info{prm}%
6190               \bidi@ifscanable{#2}
6191                 {\bidi@ifhashcheck{#3}
6192                   {\bidi@dbg@info{tok}%
6193                     \bidi@dbg@succ{ret}%
6194                     \bidi@hooktocmd@i#1#2{#3}%
6195                     \@firstoftwo}
6196                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6197                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6198             {\bidi@dbg@info{prl}%
6199               \if@bidi@defprotected{#2}
6200                 {\bidi@dbg@info{pro}%
6201                   \bidi@dbg@succ{red}%
6202                   \protected}
6203                 {\bidi@dbg@succ{red}}%
6204                 \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6205                 \@firstoftwo}}
6206             {\bidi@dbg@fail{mac}\@secondoftwo}}
6207
6208 \long\def\bidi@hooktocmd@i#1#2#3{%
6209   \beginngroup
6210   \edef\bidi@resrvda{%
6211     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6212       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6213     \edef\noexpand\bidi@resrvda{%
6214       \noexpand\bidi@resrvda\meaning#2&}}%
6215   \bidi@resrvda
6216   \bidi@patchcmd@scantoks\bidi@resrvda
6217   \let#2\bidi@resrvda

```



```

6218 \bidi@undef\bidi@resrvda}
6219
6220 \long\def\bidi@append#1#2{#1#2}
6221 \long\def\bidi@prepend#1#2{#2#1}
6222
6223 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6224 %\newcommand*{\bidi@endpreamblehook}{}
6225
6226 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6227
6228 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6229 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6230
6231 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6232 \newcommand*{\bidi@beforeheaderhook}{}
6233
6234 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6235 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6236
6237 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6238 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6239
6240 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6241 \newcommand*{\bidi@beforefooterhook}{}
6242
6243 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6244 \newcommand*{\bidi@afterfooterhook}{}
6245
6246
6247 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6248 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6249
6250 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6251 \newcommand*{\bidi@atendoutputpagehook}{}
6252
6253 %\bidi@preto\document{%
6254 % \endgroup
6255 % \let\bidi@AtEndPreamble\@firstofone
6256 % \bidi@endpreamblehook
6257 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6258 % \bidi@undef\bidi@endpreamblehook
6259 % \begingroup}
6260
6261 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6262 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6263
6264 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6265 %\newcommand*{\bidi@afterendpreamblehook}{}
6266
6267 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6268
6269 %\bidi@appto\document{%
6270 % \let\bidi@AfterEndPreamble\@firstofone
6271 % \bidi@afterendpreamblehook

```



```

6272 % \protected\def\bidi@AfterEndPreamble{\@notprerr@gobble}%
6273 % \bidi@undef\bidi@afterendpreamblehook
6274 % \ignorespaces}
6275
6276 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumenthook}
6277 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{%
6278
6279 \bidi@patchcmd\enddocument
6280 {\fi}
6281 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6282 \bidi@afterenddocumentchecklabelsrerunhook
6283 \fi}
6284 {}
6285 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6286
6287 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6288
6289 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6290 \newcommand*{\bidi@afterlastshipouthook}{%
6291
6292 \bidi@patchcmd\enddocument
6293 {\clearpage}
6294 {\clearpage
6295 \let\bidi@AfterLastShipout\@firstofone
6296 \bidi@afterlastshipouthook}
6297 {}
6298 {\let\bidi@clearpage\clearpage
6299 \def\clearpage{%
6300 \bidi@clearpage
6301 \let\bidi@AfterLastShipout\@firstofone
6302 \bidi@afterlastshipouthook}}
6303
6304 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6305 %\newcommand*{\bidi@afterenddocumenthook}{%
6306
6307 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6308
6309 %\bidi@patchcmd\enddocument
6310 % {\deadcycles}
6311 % {\let\bidi@AfterEndDocument\@firstofone
6312 % \bidi@afterenddocumenthook
6313 % \deadcycles}
6314 % {}
6315 % {\let\bidi@@end\@end
6316 % \def\@end{%
6317 % \let\bidi@AfterEndDocument\@firstofone
6318 % \bidi@afterenddocumenthook
6319 % \bidi@@end}}
6320
6321 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6322 \bidi@csgappto{\bidi@begin@#1@hook}}
6323
6324 % Patch \begin<space> and \end<space> in newer LaTeX releases
6325 % \begin and \end in older ones.

```



```

6326 \expandafter\bidipatchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6327 {\csname #1\endcsname}
6328 {\bidicsuse{@bidi@begin@#1@hook}%
6329 \csname #1\endcsname}
6330 {}
6331 {\bidi@warning{%
6332   Patching '\string\begin' failed!\MessageBreak
6333   '\string\bidiatBeginEnvironment' will not work@gobble}}
6334
6335
6336
6337 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6338 \bidi@csgappto{@bidi@end@#1@hook}}
6339
6340 \expandafter\bidipatchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6341 {\csname end#1\endcsname}
6342 {\bidicsuse{@bidi@end@#1@hook}%
6343 \csname end#1\endcsname}
6344 {}
6345 {\bidi@warning{%
6346   Patching '\string\end' failed!\MessageBreak
6347   '\string\bidiatEndEnvironment' will not work@gobble}}
6348
6349
6350
6351 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6352 \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6353
6354 \expandafter\bidipretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6355 {\bidicsuse{@bidi@beforebegin@#1@hook}}
6356 {}
6357 {\bidi@warning{%
6358   Patching '\string\begin' failed!\MessageBreak
6359   '\string\bidiatBeforeBeginEnvironment' will not work@gobble}}
6360
6361 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6362 \bidi@csgappto{@bidi@afterend@#1@hook}}
6363
6364 \expandafter\bidipatchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6365 {\if@ignore}
6366 {\bidicsuse{@bidi@afterend@#1@hook}%
6367 \if@ignore}
6368 {}
6369 {\bidi@warning{%
6370   Patching '\string\end' failed!\MessageBreak
6371   '\string\bidiatAfterEndEnvironment' will not work@gobble}}
6372
6373 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6374 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6375 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6376 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6377
6378 % From David Carlisle:
6379 % The \stpelt redefinition below belongs to Heiko Oberdiek

```



```

6380 % See also https://github.com/ho-tex/oberdiek/issues/26
6381
6382 \let\@bidi@stepcounter\stepcounter
6383 \let\@bidi@@stpelt\@stpelt
6384
6385 \def\@stpelt#1{%
6386   \ifcsname bidi@reset@#1@perpage\endcsname
6387     \begingroup
6388       \let\stepcounter\@bidi@stepcounter
6389       \@bidi@@stpelt{#1}%
6390     \endgroup
6391     \expandafter\@gobbletwo
6392   \fi
6393   \@bidi@@stpelt{#1}%
6394 }
6395
6396 \bidi@pretocmd\stepcounter
6397 {%
6398   \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6399     \csname bidi@stepcounterhook@@#1\endcsname
6400   }%
6401 }{-}%
6402 {\PackageWarning{biditools}{Patching `string\stepcounter' failed}}
6403
6404 \chardef\@bidi@backslash`\\
6405 \def\bidics#1{\texttt{\char\@bidi@backslash#1}}
6406
6407 % anonymous control sequences
6408 \newcount\@bidi@tempcountb
6409 \newtoks\@bidi@temptoksa
6410 \newtoks\@bidi@temptoksb
6411
6412 % Catcode (re)storing
6413 %
6414 \def\@bidi@storecatcode#1%
6415   {\escapechar\m@ne
6416    \bidi@csarg\edef{bidi@restorecatcode\string#1}%
6417     {\catcode`\string#1=
6418      \the\catcode\expandafter`\string#1}%
6419    \catcode\expandafter`\string#1=12\relax
6420    \escapechar`\\relax}
6421 \def\@bidi@restorecatcode#1%
6422   {\escapechar\m@ne
6423    \csname bidi@restorecatcode\string#1\endcsname
6424    \escapechar`\\relax}
6425
6426 % Construct a control sequence inside \edef
6427 %
6428 \def\@bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6429
6430 % Construct a control sequence out of #2, and give it to #1
6431 %
6432 \def\@bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6433

```



```

6434 % Pick an escapecharacter
6435 % this presumes that its argument is a character.
6436 %
6437 \def\bidipickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6438
6439 % Equality of strings.
6440 % the fast approach: does not work in expansion-only environment.
6441 %
6442 \def\bidiequalstring#1#2{00\fi\def\bidieqsa{#1}\def\bidieqsb{#2}%
6443   \ifx\bidieqsa\bidieqsb}
6444
6445 % Test by expansion only
6446 %
6447 \def\bidiequalstringX#1#2{00\fi
6448   \csname if\@bidiequalstringX#1&#2&\endcsname}
6449 \def\@bidiequalstringX#1#2$#3#4$\ifx#1#3%
6450   \ifx#1&true\else\bidihop@ES\@bidiequalstringX#2$#4$\fi
6451   \else false\fi}
6452 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6453
6454 % Lexicographic ordering
6455 % note the use of \def
6456 % also note the characters 0,127,255 that are used,
6457 % these are not supposed to appear in the strings
6458 %
6459 {\catcode0=12 \catcode255=12 \catcode127=12
6460 \gdef\bidistringbeforeNC#1#2{00\fi
6461   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6462 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6463   \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6464   \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6465   \else\ifnum\lccode`#1<\lccode`#3
6466     \def\bidinext{\csname iftrue\endcsname}%
6467   \else\ifnum\lccode`#1>\lccode`#3
6468     \def\bidinext{\csname iffalse\endcsname}%
6469   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6470   \fi \fi \fi \fi
6471   \bidinext}
6472 \gdef\bidistringbefore#1#2{00\fi
6473   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6474 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6475   \ifnum`#1<`#3
6476     \def\bidinext{\csname iftrue\endcsname}%
6477   \else\ifnum`#1>`#3
6478     \def\bidinext{\csname iffalse\endcsname}%
6479   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6480   \fi\fi
6481   \bidinext}
6482 }
6483
6484 % Null argument test
6485 %
6486 \def\bidieempty{}
6487 \def\bidieifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidie@null}

```




```

6488 \def\ bidi@ifEmptyX#1{\expandafter\ ifx\ csname bidi@#1@null\ endcsname\ bidi@null}
6489 %\def\ bidi@ifEmpty#1{\def\ bidi@cs@a{#1}\ ifx\ bidi@cs@a\ bidi@empty}
6490 \def\ bidi@IsEmptyList#1{00\ fi\ def\ bidi@cs@a{#1}\ ifx\ cs@a\ bidi@empty}
6491
6492 % Next character test
6493 %
6494 \def\ bidi@NextChar#1#2#3{00\ fi
6495   \let\ bidi@nxt@ch#1\ def\ bidi@nxt@a{#2}\ def\ bidi@nxt@b{#3}%
6496   \futurelet\ bidi@nxt@c\ @bidi@ifnxtc}
6497 \def\ bidi@ifNextChar#1#2#3{%
6498   \let\ bidi@nxt@ch#1\ def\ bidi@nxt@a{#2}\ def\ bidi@nxt@b{#3}%
6499   \futurelet\ bidi@nxt@c\ @bidi@ifnxtc}
6500 \def\ @bidi@ifnxtc{\ ifx\ bidi@nxt@ch\ bidi@nxt@c \expandafter\ bidi@nxt@a
6501   \else \expandafter\ bidi@nxt@b \fi}
6502
6503 % Test for defined-ness of string as control sequence.
6504 % works inside \edef
6505 %
6506 \def\ bidi@undefinedcs#1{00\ fi\ bidi@csarg\ ifx{#1}\ relax}
6507
6508 % Define uniquely defined dummy macros,
6509 % usually to serve as bumper blocks at the end of a list
6510 %
6511 \newcount\ bidi@dummies
6512 \def\ DefNewDummy#1{
6513   \if\ bidi@undefinedcs{#1}\ bidi@csarg\ edef{#1}{\ bidi@dum\ the\ bidi@dummies}
6514   \advance\ bidi@dummies\@ne
6515   \else
6516     \bidi@error{Attempt at second definition of `#1'}
6517   \fi}
6518
6519 % string case statement
6520 % use: \bidi@switch \iftest{...} in:
6521 %   item1 action1
6522 %   ...
6523 %   itemn actionn
6524 %   default defaultaction [optional]
6525 %   \endbidi@switch
6526 % inspired by Jonathan Fine: Some Basic Control Macros
6527 % Tugboat 12 #4
6528 %
6529 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{\bidi@default}
6530 \def\ bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6531 \def\ bidi@switch #1#2#3{\bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6532 #1{#2}\ bidi@switch@exit #3 \@bidi@fi
6533 \bidi@switch {#1}
6534 }
6535 % this version puts the test object in {}
6536 \def\ bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi
6537 #1{#2}\ bidi@switch@exit #3 \@bidi@fi
6538 \bidi@switch #1 in:
6539 }
6540 % this version assumes that the test object is just one character
6541 \def\ bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ ifx{#2}\ bidi@default\ bidi@switch@exit #3 \@bidi@fi

```



```

6542 #1#2\bidi@switch@exit #3 \@bidi@fi
6543 \bidi@cswitch #1 in:
6544 }
6545 % this version assumes that the test object can have an optional space
6546 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6547 #1#2 \bidi@switch@exit #3 \@bidi@fi
6548 \bidi@bswitch #1 in:
6549 }
6550 % this version can cope with significant spaces at the start of #3;
6551 % #2 is macro argument
6552 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6553 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6554 \bidi@mswitch #1 in:
6555 }
6556 % idem; #2 does not have to be enclosed in braces
6557 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6558 #1#2 \bidi@switch@exit #3 \@bidi@fi
6559 \bidi@fswitch #1 in:
6560 }
6561
6562 % Routines for taking the value of a string:
6563 % if the string is defined as control sequence
6564 % take the value of that, otherwise take the string itself
6565
6566 % String or value of control sequence
6567 %
6568 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6569
6570 % String or control sequence
6571 %
6572 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6573
6574 % String or \noexpand-ed control sequence;
6575 % for use in \edef
6576 %
6577 \newif\ifbidi@in@label
6578 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6579 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6580 \newtoks\bidi@are@these@correct
6581 \def\bidi@t@w@w#1{%
6582 \if\bidi@undefinedcs{#1}#1%
6583 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6584 \else
6585 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6586
6587 % List Manipulation .....
6588 % this assumes that #1 is a list of tokens, #2 is the name of a list
6589 %
6590 % Names of lists (and of items to pop into) are given as strings;
6591 % not as control sequences.
6592 %
6593 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6594 % basic append/prepend macro
6595 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%

```



```

6596 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\biditoks@list}
6597 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\biditoks@lista=#2#3%
6598 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list}
6599 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6600 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6601 % variations:
6602 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6603 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6604 \def\bidi@append@list@to@list#1#2{%
6605 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6606 \def\bidi@prepend@list@to@list#1#2{%
6607 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6608 \def\bidi@append@cslist@to@cslist#1#2{%
6609 \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6610 \def\bidi@prepend@cslist@to@cslist#1#2{%
6611 \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6612 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6613 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6614
6615 \let\bidi@willbeunhskip\unhskip
6616
6617 % A few list macros for the user
6618 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6619 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6620 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6621 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6622 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6623 \if\bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6624 \else\bidi@csarg\the{#1}\fi
6625 \let\bidi@willbeunhskip\bidi@oldwbuskip}
6626
6627 \def\bidi@del@tok@from@list#1#2{\begingroup
6628 \long\def\bidi@cs@liste##1#2##2\bidi@tok@SM
6629 {\bidi@toks@lista{##1}\bidi@toks@listb{##2}%
6630 \edef\bidi@cs@listb{\global\bidi@csname{#1}=
6631 {\the\bidi@toks@lista\the\bidi@toks@listb}}%
6632 \bidi@cs@listb}%
6633 \edef\bidi@cs@lista{\noexpand\bidi@cs@liste}\expandafter\the\csname#1\endcsname\noexpand
6634 \bidi@cs@lista \endgroup}
6635 \def\bidi@in@front@of@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6636 \bidi@in@front@of@cslist\bidi@cs@lista}
6637 \long\def\bidi@in@front@of@cslist#1#2{\begingroup\biditoks@lista=#2}%
6638 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list}
6639 \endgroup}
6640 \long\def\bidi@local@in@front@of@list#1#2{\bidi@toks@lista={#2}%
6641 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6642 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6643 \expandafter\the\csname#1\endcsname}%
6644 }
6645 \def\bidi@set@list#1{\bidi@csarg{\let\expandafter\bidi@cs@lista}{#1}%
6646 \bidi@set@cslist\bidi@cs@lista}
6647 \long\def\bidi@set@cslist#1#2{\begingroup\biditoks@lista={#2}%
6648 \global#1=\expandafter{\the\biditoks@lista}\endgroup}
6649

```



```

6650 %%%%%%%%%%% Stack macros
6651 %
6652 % push in terms of prepending of lists
6653 \def\bidipush@cs@onto@cs#1#2{\@bidi@prepend@to@cslist#1\expandafter{\expandafter\\expandaf
6654 \def\bidipush@onto#1{\bidi@csarg\bidi@push@onto@cs{#1}}
6655 \def\bidipush@onto@cs#1#2{\@bidi@prepend@to@cslist#1}{\{#2}}
6656 \def\bidilocal@push@onto#1#2{\let\=\relax
6657 \bidi@local@in@front@of@list{#1}{\{#2}}
6658 % pop via auxiliary macro: #1 is result, #2 is stack
6659 % two cs arguments
6660 \def\bidipop@cs@into#1#2{\edef\bidi@cs@e
6661 {\noexpand\@bidi@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bidi@pop}\bidi@cs@e}
6662 % two string arguments
6663 \def\bidipop@into#1#2{\edef\bidi@cs@e
6664 {\noexpand\@bidi@popinto\bidi@csname{#1}\bidi@csname{#2}\bidi@csarg\the{#2}\noexpand\@b
6665 \long\def\@bidi@popinto#1#2\#3#4\@bidi@pop{#1{#3}#2{#4}}
6666 \def\bidi@copy@stacktop#1#2{%
6667 \edef\bidi@cs@e{\noexpand\@bidi@copy@stacktop
6668 {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6669 \bidi@cs@e}
6670 \def\@bidi@copy@stacktop#1\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6671 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{}}
6672 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6673 \def\bidi@length@of@csstack#1{\def\#1{\advance\bidi@stack@length\@ne}%
6674 \bidi@stack@length\m@ne \the#1}
6675 % turn a stack upside down
6676 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6677 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6678 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6679 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\m@ne
6680 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6681 % \bidi@append@cslist@to@cslist\bidi@temptoksb\bidi@temptoksa% append a to b
6682 % \bidi@temptoksa\bidi@temptoksb
6683 \repeat% copy b to a
6684 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6685 % invert a stack into a list
6686 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6687 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6688 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6689 \bidi@pop@into{bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
6690 \bidi@append@list@to@list{bidi@temptoksb}{bidi@temptoksa}\repeat
6691 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6692
6693
6694 % General loop macro:
6695 % \looprepeat
6696 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<en
6697 % \untilcondition{<cond>} \whilecondition{<cond>}
6698 % \doloopbody { <loop body> }
6699 % where all control sequences in between \looprepeat and \doloopbody are optional.
6700 %
6701 % var: characters to form a control sequence;
6702 % after \forvariable{index} you can access the loop counter as \index.
6703 % This is a count register; to print it use \number\index.

```



```

6704% start,step,end: integers with obvious relations to the loop counter;
6705%   start and step have a default value of 1
6706% cond: (sequence of commands ending in) any TeX \if... test.
6707%
6708% Count down instead of up with \downtovalue; the increment given in \bystep
6709% is always positive, and is added or subtracted accordingly.
6710%
6711% Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6712% at the beginning of the loop body.
6713%
6714% Exit from middle of loop: \breaklooprepeat
6715% use this at any place in the loop; in case of a conditional use
6716%   \ifsomething ... \expandafter \breaklooprepeat \fi
6717%
6718% Note that the line ends do not cause spaces in the output.
6719%
6720% Technical details:
6721% The loop body is not executed in a group: the braces are those
6722% of a token list.
6723% The 'forvariable' variable is \let to a \count register.
6724
6725
6726
6727% Auxiliary stuff
6728\def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6729\def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6730\def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6731
6732\newcount\bidilooprepeat@depth
6733\let\endlooprepeat\relax \def\bidicsprotect{}
6734% Trace switches may later be defined by PAC_utils
6735\let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6736
6737% Main repeatloop macro
6738% - go to next level and allocate unique counter/toks if this is the
6739%   first time we visit this level
6740% - setup: gather bounds and termination conditions
6741% - scoop up body in token list; after the assignment define and
6742%   execute body
6743\def\looprepeat#1\doloopbody{\bidilooprepeat@traceinit % exit in \breakrepeatloop
6744  \advance\bidilooprepeat@depth\@ne\relax
6745  \bidilooprepeat@csargromannumeral\ifx{\bidilooprepeat@count}\relax
6746    \bidilooprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooprepeat@depth}
6747    \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6748    \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@depth}
6749  \fi \bidilooprepeat@zero \def\bidilooprepeat@sign{}\def\bidilooprepeat@comp{>}\bidilooprepeat@depth
6750  \edef\bidilooprepeat@tmp
6751    {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidilooprepeat@depth}
6752    \afterassignment\bidilooprepeat@dxbbody\bidilooprepeat@csromannumeral{\bidilooprepeat@depth}
6753    \bidilooprepeat@tmp}
6754
6755% Define and execute loop body
6756% This is done with an \edef to construct the actual sequence
6757\def\bidilooprepeat@dxbbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{%

```



```

6758 \bidi@looprepeat@csargromannumeral\the{bidi@looprepeat@wtest}%
6759 \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@toks}%
6760 \bidi@looprepeat@csargromannumeral\the{bidi@looprepeat@utest}%
6761 \global\bidi@looprepeat@csargromannumeral\advance{bidi@looprepeat@count} by \bidi@loopre
6762 \noexpand\endlooprepeat
6763 \bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@looprepeat}}%
6764 \bidi@looprepeat@csromannumeral{bidi@looprepeat@body}\ignorespaces}
6765
6766 % Stop test
6767 %% In order to stop, issue a
6768 % \breaklooprepeat which scoops up the rest of the body and exits
6769 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6770 \advance\bidi@looprepeat@depth@m@ne \bidi@looprepeat@traceexit
6771 }
6772
6773
6774 % Setup
6775 % gather bounds and termination conditions
6776 \def\bidi@looprepeat@setup#1{%
6777 \begingroup
6778 \def\forvariable##1{%
6779 \edef\bidi@looprepeat@tmp{%
6780 \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{bidi@
6781 \bidi@looprepeat@tmp}%
6782 \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{bidi@looprepeat@count}##1\ig
6783 \def\tovalue##1{%
6784 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@loop
6785 {bidi@looprepeat@csargromannumeral\the{bidi@looprepeat@wtest}}%
6786 \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@count}\bi
6787 \noexpand\expandafter \noexpand\breaklooprepeat
6788 \noexpand\fi}\ignorespaces}%
6789 \bidi@looprepeat@tmp}%
6790 \def\downvalue##1{%
6791 \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6792 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6793 \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{-##1}\else
6794 \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{##1}\fi\ignoresp
6795 \def\untilcondition##1{%
6796 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@loop
6797 {noexpand##1\relax
6798 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6799 \bidi@looprepeat@tmp}%
6800 \def\whilecondition##1{%
6801 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@loop
6802 {noexpand##1\relax \noexpand\else
6803 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6804 \bidi@looprepeat@tmp}%
6805 \fromvalue{\@ne}\bystep{\@ne}#1%
6806 \endgroup}
6807 \def\bidi@looprepeat@zero
6808 {\bidi@looprepeat@csromannumeral{bidi@looprepeat@toks}}\bidi@looprepeat@csromannumeral{b
6809 \bidi@looprepeat@csargromannumeral\def{bidi@looprepeat@body}}}}
6810
6811 %\tracingmacros2

```



```

6812%\newcount\tmpcount % used in some examples below
6813
6814%\looprepeat \forvariable{i}
6815%      \bystep{2}
6816% \doloopbody {%
6817%   \ifnum{i}=13 \expandafter\breaklooprepeat \fi
6818%   \number{i}} %
6819%}%
6820
6821%\looprepeat \forvariable{iii}
6822%      \tovalue{8}
6823% \doloopbody {}
6824%After loop: \number{iii}%
6825
6826%\looprepeat \forvariable{i}
6827%      \fromvalue{10}
6828%      \bystep{2}
6829%      \downtovalue{0}
6830% \doloopbody {\number{i}} }
6831
6832%\looprepeat \forvariable{x} \whilecondition{\ifnum{x}<7}
6833% \doloopbody {\number{x}} }
6834
6835%\looprepeat \tovalue{3} \doloopbody {Hello world! }
6836
6837%\looprepeat \forvariable{j}
6838%      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6839% \doloopbody {\number{j}} }
6840
6841%\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6842% {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6843% \doloopbody {(\number{i}.\number{j}) }
6844% }
6845
6846% infinite loop
6847%\looprepeat \doloopbody {}
6848
6849 \ExplSyntaxOn
6850 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6851 {
6852   \IfBooleanTF { #1 }
6853   {
6854     \@ifclassloaded{ #2 }
6855     { #4 }
6856     {
6857       \hook_gput_code:nnn
6858       { file / #2.\@clsextension / after }
6859       { #3 }
6860       { #4 }
6861     }
6862   }
6863   {
6864     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6865   }

```



```

6866 }
6867
6868 \seq_new:N \g__biditools_input_file_seq
6869
6870 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6871 {
6872   \str_set:Nx \l_tmpa_str { #1 }
6873   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6874   { \prg_return_true: }
6875   { \prg_return_false: }
6876 }
6877
6878 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6879 {
6880   \@ifclassloaded { #1 }
6881   {
6882     \__bidi_if_loading:nTF { #1.\@clsextension }
6883     { \prg_return_false: }
6884     { \prg_return_true: }
6885   }
6886   {
6887     \prg_return_false:
6888   }
6889 }
6890
6891 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6892 {
6893   \@ifpackageloaded { #1 }
6894   {
6895     \__bidi_if_loading:nTF { #1.\@pkgextension }
6896     { \prg_return_false: }
6897     { \prg_return_true: }
6898   }
6899   {
6900     \prg_return_false:
6901   }
6902 }
6903
6904 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6905 {
6906   \IfBooleanTF { #1 }
6907   {
6908     \bidi_if_class_loaded:nTF { #2 }
6909     { #4 }
6910     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6911   }
6912   {
6913     \bidi_if_class_loaded:nF
6914     { #2 }
6915     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6916   }
6917 }
6918
6919 \NewDocumentCommand \bidi@AfterPackage { s m o +m }

```




```

6920 {
6921   \IfBooleanTF { #1 }
6922   {
6923     \@ifpackageloaded{ #2 }
6924     { #4 }
6925     {
6926       \hook_gput_code:nnn
6927         { file / #2.\@pkgextension / after }
6928         { #3 }
6929         { #4 }
6930     }
6931   }
6932   {
6933     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6934   }
6935 }
6936
6937 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6938 {
6939   \IfBooleanTF { #1 }
6940   {
6941     \bidi_if_package_loaded:nTF { #2 }
6942     { #4 }
6943     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6944   }
6945   {
6946     \bidi_if_package_loaded:nF
6947     { #2 }
6948     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6949   }
6950 }
6951
6952 \clist_new:N \l__biditools_package_clist
6953 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6954 {
6955   Can-not~prevent~package~`#1'~from~being~loaded,~
6956   since~it~has~been~loaded~already~before~line~\msg_line_number:
6957 }
6958 \clist_new:N \g__biditools_prevent_clist
6959
6960 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6961 {
6962   \clist_set:Nx \l__biditools_package_clist { #3 }
6963   \clist_map_inline:Nn \l__biditools_package_clist
6964   {
6965     \@ifpackageloaded { ##1 }
6966     {
6967       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6968       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6969     }
6970     {
6971       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6972       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6973       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }

```



```

6974         {
6975         \tl_new:c { g__biditools_exclude_package_##1_tl }
6976         }
6977     \IfValueT { #2 }
6978     {
6979         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6980     }
6981     \disable@package@load { ##1 }
6982     { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6983     }
6984     }
6985     \clist_clear:N \l__biditools_package_clist
6986 }
6987
6988 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6989 {
6990     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6991     \clist_gclear:N \g__biditools_prevent_clist
6992 }
6993
6994 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6995 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6996
6997 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6998 {
6999     \clist_set:Nx \l__biditools_package_clist { #2 }
7000     \clist_map_inline:Nn \l__biditools_package_clist
7001     {
7002         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7003         {
7004             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7005             \reenable@package@load { ##1 }
7006             \IfBooleanT { #1 }
7007             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7008         }
7009     }
7010 }
7011
7012 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7013 {
7014     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7015     {
7016         \debug_suspend:
7017         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7018         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7019         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7020         #2
7021         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7022         \debug_resume:
7023     }
7024 }
7025
7026 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7027 {

```



```

7028 \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7029 {
7030   \debug_suspend:
7031   \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7032   \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7033   \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7034   #2
7035   \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7036   \debug_resume:
7037 }
7038 }
7039
7040 \clist_new:N \l__biditools_file_patch_clist
7041
7042 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7043 {
7044   \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7045   \clist_map_inline:Nn \l__biditools_file_patch_clist
7046   {
7047     \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7048   }
7049   \clist_clear:N \l__biditools_file_patch_clist
7050 }
7051
7052 \clist_new:N \l__biditools_package_patch_clist
7053
7054 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7055 {
7056   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7057   \clist_map_inline:Nn \l__biditools_package_patch_clist
7058   {
7059     \ApplyPatchToPackage { ##1 } [ #2 ]
7060   }
7061   \clist_clear:N \l__biditools_package_patch_clist
7062 }
7063
7064 \clist_new:N \l__biditools_class_patch_clist
7065
7066 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7067 {
7068   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7069   \clist_map_inline:Nn \l__biditools_class_patch_clist
7070   {
7071     \ApplyPatchToClass { ##1 } [ #2 ]
7072   }
7073   \clist_clear:N \l__biditools_class_patch_clist
7074 }
7075
7076 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7077 {
7078   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7079   \clist_map_inline:Nn \l__biditools_class_patch_clist
7080   {
7081     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]

```



```

7082     }
7083     \clist_clear:N \l__biditools_class_patch_clist
7084 }
7085 \ExplSyntaxOff
7086
7087 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7088 \newcommand*{\bidi@UnReplaceInput}
7089 {\undeclare@file@substitution}
7090 \newcommand*{\bidi@ReplacePackage}[2]{%
7091   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7092 }
7093 \newcommand*{\bidi@UnReplacePackage}[1]{%
7094   \undeclare@file@substitution{#1.\@pkgextension}%
7095 }
7096 \newcommand*{\bidi@ReplaceClass}[2]{%
7097   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7098 }
7099 \newcommand*{\bidi@UnReplaceClass}[1]{%
7100   \undeclare@file@substitution{#1.\@clsextension}%
7101 }
7102 \newcommand*{\bidi@BeforeFile}[1]{%
7103   \AddToHook{file/#1/before}%
7104 }
7105 \newcommand*{\bidi@AfterFile}[1]{%
7106   \AddToHook{file/#1/after}%
7107 }
7108 \newcommand*{\bidi@BeforeClass}[1]{%
7109   \bidi@BeforeFile{#1.\@clsextension}%
7110 }
7111 \newcommand*{\bidi@BeforePackage}[1]{%
7112   \bidi@BeforeFile{#1.\@pkgextension}%
7113 }
7114
7115 \long\def\bidi@protected@immediate@write#1#2#3{%
7116   \begingroup
7117     #2%
7118     \let\protect\@unexpandable@protect
7119     \edef\reserved@a{\immediate\write#1{#3}}%
7120     \reserved@a
7121   \endgroup
7122   \if@nobeak\ifvmode\nobeak\fi\fi
7123 }
7124
7125 \def\bidi@patch@AfterPackage#1{%
7126   \@ifpackageloaded{#1}{%
7127     \@firstofone
7128   }{%
7129     \AddToHook{package/#1/after}%
7130   }%
7131 }
7132
7133 \def\bidi@patch@AfterFile#1{%
7134   \IfFileLoadedTF{#1}{%
7135     \@firstofone

```



```

7136 }{%
7137   \AddToHook{file/#1/after}%
7138 }%
7139 }
7140
7141 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7142 {
7143   \bidi@patch@AfterFile{#1.#2}{%
7144     \ifnum\catcode`\@=11
7145       \input{#1-xetex-#3.def}%
7146     \else
7147       \bidi@storecatcode\@
7148       \makeatletter
7149       \input{#1-xetex-#3.def}%
7150       \bidi@restorecatcode\@
7151     \fi
7152   }%
7153 }
7154
7155 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7156 {
7157   \bidi@patch@AfterFile{#1.#3}{#2}%
7158 }
7159
7160 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7161 {
7162   \AddToHook{begindocument/before}{%
7163     \IfPackageLoadedF{#1}{%
7164       \ApplyPatchToFiles{#2}[#3][#4]%
7165     }%
7166 }
7167 }
7168
7169 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7170 {
7171   \AddToHook{begindocument/before}{%
7172     \IfPackageLoadedF{#2}{%
7173       \ifnum\catcode`\@=11
7174         \@ifclassloaded{#1}{%
7175           \input{#1-xetex-#3.def}%
7176         }{}%
7177       \else
7178         \bidi@storecatcode\@
7179         \makeatletter
7180         \@ifclassloaded{#1}{%
7181           \input{#1-xetex-#3.def}%
7182         }{}%
7183         \bidi@restorecatcode\@
7184       \fi
7185     }%
7186 }
7187 }
7188
7189 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }

```



```

7190 {
7191   \AddToHook{begindocument/before}{%
7192     \IfPackageLoadedF{#2}{%
7193       \IfPackageLoadedT{#1}{%
7194         \ifnum\catcode`\@=11
7195           \input{#1-xetex-#3.def}%
7196         \else
7197           \bidi@storecatcode\@
7198           \makeatletter
7199           \input{#1-xetex-#3.def}%
7200           \bidi@restorecatcode\@
7201         \fi
7202       }%
7203     }%
7204   }
7205 }
7206
7207 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7208 {
7209   \AddToHook{begindocument/before}{%
7210     \ifnum\catcode`\@=11
7211       \@ifpackageloaded{#1}{#2}{#3}%
7212     \else
7213       \bidi@storecatcode\@
7214       \makeatletter
7215       \@ifpackageloaded{#1}{#2}{#3}%
7216       \bidi@restorecatcode\@
7217     \fi
7218   }
7219 }
7220
7221 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7222 {
7223   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7224 }
7225
7226 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7227 {
7228   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7229 }
7230
7231 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7232 {
7233   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7234 }
7235
7236 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7237 {
7238   \bidi@patch@AfterPackage{#1}{#2}%
7239 }
7240
7241 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7242 {
7243   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%

```



7244 }

53 File `bidituftefloat.sty`

```
7245 \NeedsTeXFormat{LaTeX2e}
7246 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7247 bidi implementation of tufte float]
7248 \RequirePackage{xifthen}
7249 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7250 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7251 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7252 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7253 \newboolean{@bidituftefloat@reversegeometry}
7254 \setboolean{@bidituftefloat@reversegeometry}{false}
7255 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7256 \newboolean{@bidituftefloat@a4paper}
7257 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7258 \newboolean{@bidituftefloat@b5paper}
7259 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7260 \newboolean{@bidituftefloat@symmetric}
7261 \newboolean{@bidituftefloat@twoside}
7262 \DeclareOption{twoside}{%
7263 \@twosidetrue \mparswitchtrue%
7264 \setboolean{@bidituftefloat@twoside}{true}%
7265 \setboolean{@bidituftefloat@symmetric}{true}%
7266 }
7267 \DeclareOption{oneside}{%
7268 \@twosidefalse \mparswitchfalse%
7269 \setboolean{@bidituftefloat@twoside}{false}%
7270 \setboolean{@bidituftefloat@symmetric}{false}%
7271 }
7272 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7273 \newboolean{@bidituftefloat@debug}
7274 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
7275 \ProcessOptions
7276 %% Globally sets the length
7277 \newcommand*{\gsetlength}[2]{%
7278 \setlength{#1}{#2}%
7279 \global#1=#1\relax%
7280 }
7281
7282 %% Set the font sizes and baselines to match bidituftefloat's books
7283 \renewcommand\normalsize{%
7284 \setfontsize\normalsize\@xpt{14}%
7285 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7286 \abovedisplayshortskip \z@ \@plus3\p@
7287 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7288 \belowdisplayskip \abovedisplayskip
7289 \let\@listi\@listI}
7290 \normalbaselineskip=14pt
7291 \normalsize
7292 \renewcommand\footnotesize{%
7293 \setfontsize\footnotesize\@viipt{10}%
7294 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
```



```

7295 \abovedisplaysshortskip \z@ \@plus\p@
7296 \belowdisplaysshortskip 3\p@ \@plus\p@ \@minus2\p@
7297 \def\@listif{\leftmargin\leftmarginI
7298         \topsep 3\p@ \@plus\p@ \@minus\p@
7299         \parsep 2\p@ \@plus\p@ \@minus\p@
7300         \itemsep \parsep}%
7301 \belowdisplayskip \abovedisplayskip
7302 }
7303 %% Paragraph indentation and separation for marginal text
7304 \newcommand{\@bittuftefloat@margin@par}{%
7305 \setlength{\RaggedRightParindent}{0.5pc}%
7306 \setlength{\JustifyingParindent}{0.5pc}%
7307 \setlength{\parindent}{0.5pc}%
7308 \setlength{\parskip}{0pt}%
7309 }
7310 \RequirePackage{ragged2e}
7311 \ifthenelse{\boolean{@bittuftefloat@reversegeometry}}{%
7312 \RequirePackage[letterpaper, right=1in, top=1in, headsep=2\baselineskip, textwidth=26pc, marginpar
7313 \ifthenelse{\boolean{@bittuftefloat@afourpaper}}
7314 {\geometry{a4paper, right=24.8mm, top=27.4mm, headsep=2\baselineskip, textwidth=107mm, marginpar
7315 {}
7316 \ifthenelse{\boolean{@bittuftefloat@bfivepaper}}
7317 {\geometry{paperwidth=176mm, paperheight=250mm, right=14.66mm, top=13.88mm, textwidth=102.66mm
7318 {}}}{%
7319 \RequirePackage[letterpaper, left=1in, top=1in, headsep=2\baselineskip, textwidth=26pc, marginpar
7320 \ifthenelse{\boolean{@bittuftefloat@afourpaper}}
7321 {\geometry{a4paper, left=24.8mm, top=27.4mm, headsep=2\baselineskip, textwidth=107mm, marginpar
7322 {}
7323 \ifthenelse{\boolean{@bittuftefloat@bfivepaper}}
7324 {\geometry{paperwidth=176mm, paperheight=250mm, left=14.66mm, top=13.88mm, textwidth=102.66mm,
7325 {}}}
7326 \ifthenelse{\boolean{@bittuftefloat@symmetric}}
7327 {}
7328 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7329 \setlength\marginparpush{10pt}
7330 %% Font for margin items
7331 \newcommand{\@bittuftefloat@marginfont}{\normalfont\footnotesize}
7332 \newcommand*{\@bittuftefloat@captionfont}{\@bittuftefloat@marginfont}
7333 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bittuftefloat@captionfont}{#1}}
7334 \newcommand{\@bittuftefloat@justification}{\justifying}%
7335 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7336 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7337 \newboolean{@bittuftefloat@changepage}
7338 \IfFileExists{changepage.sty}{%
7339 \bittuftefloatDebugInfoNL{Found changepage.sty}
7340 \RequirePackage[strict]{changepage}
7341 \setboolean{@bittuftefloat@changepage}{true}
7342 }{%
7343 \bittuftefloatDebugInfoNL{Found chngpage.sty}
7344 \RequirePackage[strict]{chngpage}
7345 \setboolean{@bittuftefloat@changepage}{false}
7346 }
7347 \newboolean{@bittuftefloat@odd@page}
7348 \setboolean{@bittuftefloat@odd@page}{true}

```




```

7349 \newcommand*{\@biditytfloat@checkoddpage}{%
7350 \checkoddpage%
7351 \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7352 \ifoddpage%
7353 \setboolean{@biditytfloat@odd@page}{true}%
7354 \else%
7355 \setboolean{@biditytfloat@odd@page}{false}%
7356 \fi%
7357 }{%
7358 \ifcpoddpage%
7359 \setboolean{@biditytfloat@odd@page}{true}%
7360 \else%
7361 \setboolean{@biditytfloat@odd@page}{false}%
7362 \fi%
7363 }%
7364 }
7365 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7366 \newlength{\@biditytfloat@fullwidth}
7367 \newlength{\@biditytfloat@caption@fill}
7368 \newcommand{\@biditytfloatRecalculate}{%
7369 \setlength{\@biditytfloat@overhang}{\marginparwidth}
7370 \addtolength{\@biditytfloat@overhang}{\marginparsep}
7371
7372 \setlength{\@biditytfloat@fullwidth}{\textwidth}
7373 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7374 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7375
7376 \setlength{\@biditytfloat@caption@fill}{\textwidth}
7377 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7378 }
7379 \AtBeginDocument{\@biditytfloatRecalculate}
7380 \RequirePackage{optparams}% provides multiple optional arguments for commands
7381 \RequirePackage{placeins}
7382 \newsavebox{\@biditytfloat@margin@floatbox}
7383 \newenvironment{@biditytfloat@margin@float}[2][-.2ex]%
7384 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7385 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7386 \begin{minipage}{\marginparwidth}%
7387 \@biditytfloat@caption@font%
7388 \def\@capttype{#2}%
7389 \hbox{} \vspace*{#1}%
7390 \@biditytfloat@caption@justification%
7391 \@biditytfloat@margin@par%
7392 \noindent%
7393 }
7394 {\end{minipage}%
7395 \end{lrbox}%
7396 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7397 }
7398 \newenvironment{marginfigure}[1][-.2ex]%
7399 {\begin{@biditytfloat@margin@float}[#1]{figure}}
7400 {\end{@biditytfloat@margin@float}}
7401 \newenvironment{margintable}[1][-.2ex]%
7402 {\begin{@biditytfloat@margin@float}[#1]{table}}

```



```

7403   {\end{@bidituftefloat@margin@float}}
7404 \newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%
7405
7406 \newcommand{\@bidituftefloat@float@debug@info}{}% contains debug info generated as the float
7407 \newcommand{\@bidituftefloat@float@debug}[1]{% adds debug info to the queue for output
7408   \ifthenelse{\equal{\@bidituftefloat@float@debug@info}{}}{%
7409     {\def\@bidituftefloat@float@debug@info{#1}}%
7410     {\g@addto@macro\@bidituftefloat@float@debug@info{\MessageBreak#1}}%
7411 }
7412 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7413 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidituftefloat@float@debug}
7414 \newboolean{@bidituftefloat@float@recto}
7415 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug}
7416 \newcommand{\forceversofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug}
7417 \newsavebox{\@bidituftefloat@figure@box}
7418 \newsavebox{\@bidituftefloat@caption@box}
7419 \let\@bidituftefloat@orig@float\@float
7420 \let\@bidituftefloat@orig@endfloat\end@float
7421 \newlength{\@bidituftefloat@caption@vertical@offset}
7422 \setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
7423 \newcommand{\@bidituftefloat@stored@shortcaption}{}
7424 \newcommand{\@bidituftefloat@stored@caption}{}
7425 \newcommand{\@bidituftefloat@stored@label}{}
7426 \long\def\@bidituftefloat@caption[#1][#2]#3{%
7427   \ifthenelse{\isempty{#1}}{%
7428     {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
7429     {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
7430   \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7431   \gdef\@bidituftefloat@stored@caption{#3}%
7432 }
7433 \newcommand{\@bidituftefloat@label}[1]{%
7434   \gdef\@bidituftefloat@stored@label{#1}%
7435 }
7436 \newcommand{\@bidituftefloat@fps}{}
7437 \newboolean{@bidituftefloat@float@star}
7438 \newlength{\@bidituftefloat@float@contents@width}
7439 \newenvironment{@bidituftefloat@float}[3][htbp]%
7440   {% begin @bidituftefloat@float
7441     % Should this float be full-width or just text-width?
7442     \ifthenelse{\equal{#3}{star}}{%
7443       {\GlobalSetBoolean{@bidituftefloat@float@star}{true}}%
7444       {\GlobalSetBoolean{@bidituftefloat@float@star}{false}}%
7445     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7446     \@bidituftefloat@checkoddpage%
7447     \ifthenelse{\boolean{@bidituftefloat@odd@page}}{%
7448       {\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Dete
7449       {\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Det
7450     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7451     \renewcommand{\@bidituftefloat@fps}{#1}%
7452     \@bidituftefloat@float@debug{Allowed positions: [#1]}%
7453     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7454       {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bot
7455       {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top
7456     % Capture the contents of the \caption and \label commands to use later

```



```

7457 \global\let\@biditytfloat@orig@caption\caption%
7458 \global\let\@biditytfloat@orig@label\label%
7459 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[] [Opt]}}%
7460 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7461 % Handle subfigure package compatibility
7462 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7463   \bidi@patchcmd{\subfigure}{%
7464     \let\subfig@oldlabel=\label
7465   }{%
7466     \let\subfig@oldlabel=\@biditytfloat@orig@label
7467   }
7468   {}
7469   {}
7470   \let\subtable=\subfigure
7471 }{}% subfigure package is not loaded
7472 \@biditytfloat@orig@float{#2}[#1]%
7473 \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7474   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7475   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7476 \begin{lrbox}{\@biditytfloat@figure@box}%
7477   \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
7478 }{% end \@biditytfloat@float
7479   \par\hbox{}}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7480   \end{minipage}%
7481 \end{lrbox}%
7482 % build the caption box
7483 \begin{lrbox}{\@biditytfloat@caption@box}%
7484   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7485     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}}{\@biditytfloat@orig@cap
7486     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}}{\@biditytfloat@orig@label
7487     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7488     \end{minipage}%
7489 \end{lrbox}%
7490 % now typeset the stored boxes
7491 \begin{fullwidth}%
7492   \begin{minipage}[\floatalignment]{\linewidth}%
7493     \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7494       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7495       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7496     \end{minipage}%
7497 \end{fullwidth}%
7498 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7499 % output debug info
7500 \ifthenelse{\boolean{\@biditytfloat@debug}}{%
7501   \typeout{^^J^^J----- biditytfloat package float information -----}%
7502   \ifthenelse{\equal{\@biditytfloat@stored@label}}{}%
7503     {\typeout{Warning: Float unlabeled!}}%
7504     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7505   \typeout{Page number: [\thepage]}%
7506   \def\MessageBreak{^^J}%
7507   \typeout{\@biditytfloat@float@debug@info}%
7508   \ifthenelse{\boolean{\@biditytfloat@symmetric}}%
7509     {\typeout{Symmetric: [true]}}%
7510     {\typeout{Symmetric: [false]}}%

```



```

7511 \typeout{-----^^J^^J}%
7512 }{}%
7513 % reset commands and temp boxes and captions
7514 \gdef\@biditytfloat@float@debug@info{}%
7515 \let\caption\@biditytfloat@orig@caption%
7516 \let\label\@biditytfloat@orig@label%
7517 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{} \end{lrbox}%
7518 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{} \end{lrbox}%
7519 \gdef\@biditytfloat@stored@shortcaption{}%
7520 \gdef\@biditytfloat@stored@caption{}%
7521 \gdef\@biditytfloat@stored@label{}%
7522 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7523 }
7524 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7525 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto
7526 % asymmetric or page is odd, so caption is on the right
7527 \hbox{%
7528 \usebox{#2}%
7529 \hspace{\marginparsep}%
7530 \smash{\raisebox{#1}{\usebox{#3}}}%
7531 }
7532 \@biditytfloat@float@debug{Caption position: [right]}%
7533 }{% symmetric pages and page is even, so caption is on the left
7534 \hbox{%
7535 \smash{\raisebox{#1}{\usebox{#3}}}%
7536 \hspace{\marginparsep}%
7537 \usebox{#2}%
7538 }
7539 \@biditytfloat@float@debug{Caption position: [left]}%
7540 }%
7541 }
7542 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7543 \ifthenelse{equal{\floatalignment}{b}}%
7544 {% place caption above figure
7545 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@r
7546 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
7547 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
7548 }{% place caption below figure
7549 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@r
7550 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
7551 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
7552 }%
7553 }
7554 \renewenvironment{figure}[1][htbp]%
7555 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7556 {\end{@biditytfloat@float}}
7557 \renewenvironment{table}[1][htbp]
7558 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7559 {\end{@biditytfloat@float}}
7560 \renewenvironment{figure*}[1][htbp]%
7561 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7562 {\end{@biditytfloat@float}}
7563 \renewenvironment{table*}[1][htbp]%
7564 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}

```



```

7565 {\end{@biditytfloat@float}}
7566 \newenvironment{fullwidth}
7567   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7568     {\ifthenelse{\boolean{@biditytfloat@changeage}}{\begin{adjustwidth*}{-}\@biditytfloat@
7569     {\begin{adjustwidth}{-}\@biditytfloat@overhang}}}%
7570   }%
7571   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7572     {\ifthenelse{\boolean{@biditytfloat@changeage}}{\end{adjustwidth*}}{\end{adjustwidth}}%
7573     {\end{adjustwidth}}}%
7574 }
7575 \long\def\@caption#1[#2]#3{%
7576 \par%
7577 \addcontentsline{\csname ext@#1\endcsname}{#1}%
7578   {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7579 \begingroup%
7580   \@parboxrestore%
7581   \if@minipage%
7582     \@setminipage%
7583   \fi%
7584   \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7585   \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7586   \%@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7587 \endgroup}
7588 %%
7589 % Turns newlines into spaces. Based on code from the `titlesec' package.
7590 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7591   \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7592 }
7593 \def\@biditytfloat@newlinetospace@i{%
7594   \ifdim\lastskip>\z@\else\space\fi
7595   \ignorespaces%
7596 }
7597 \DeclareRobustCommand{\newlinetospace}[1]{%
7598   \let\@biditytfloat@orig@cr\% save the original meaning of \
7599   \def\@biditytfloat@newlinetospace}{turn \ and \* into \space
7600   \let\newline\% turn \newline into \space
7601   #1%
7602   \let\@biditytfloat@orig@cr revert to original meaning of \
7603 }
7604 \RequirePackage{fancyhdr}
7605 \pagestyle{fancy}
7606 \AtBeginDocument{%
7607   \ifthenelse{\boolean{@biditytfloat@symmetric}}
7608     {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}
7609     {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7610 }
7611 % The running heads/feet don't have rules
7612 \renewcommand{\headrulewidth}{0pt}
7613 \renewcommand{\footrulewidth}{0pt}
7614 % The 'fancy' page style is the default style for all pages.
7615 \fancyhf{} % clear header and footer fields
7616   \ifthenelse{\boolean{@biditytfloat@symmetric}}
7617     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7618     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%

```



```

7619     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7620 % The `plain' page style is used on chapter opening pages.
7621 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7622 % bottom of pages -- the folios are unexpressed.
7623 \fancypagestyle{plain}{
7624   \fancyhf{} % clear header and footer fields
7625   % Uncomment the following five lines of code if you want the opening page
7626   % of the chapter to express the folio in the lower outside corner.
7627   % \ifthenelse{\boolean{@biditytuftefloat@symmetric}}
7628   %   {\fancyfoot[LE,RO]{\thepage}}
7629   %   {\fancyfoot[RE,RO]{\thepage}}
7630 }
7631 % The `empty' page style suppresses all headers and footers.
7632 % It's used on title pages and `intentionally blank' pages.
7633 \fancypagestyle{empty}{
7634   \fancyhf{} % clear header and footer fields
7635 }
7636 \def\morefloats{% provides a total of 52 floats
7637   \ifthenelse{\isundefined{\bx@S}}{%
7638     \biditytuftefloatDebugInfoNL{Adding 34 more float slots.}
7639     \newinsert\bx@S
7640     \newinsert\bx@T
7641     \newinsert\bx@U
7642     \newinsert\bx@V
7643     \newinsert\bx@W
7644     \newinsert\bx@X
7645     \newinsert\bx@Y
7646     \newinsert\bx@Z
7647     \newinsert\bx@a
7648     \newinsert\bx@b
7649     \newinsert\bx@c
7650     \newinsert\bx@d
7651     \newinsert\bx@e
7652     \newinsert\bx@f
7653     \newinsert\bx@g
7654     \newinsert\bx@h
7655     \newinsert\bx@i
7656     \newinsert\bx@j
7657     \newinsert\bx@k
7658     \newinsert\bx@l
7659     \newinsert\bx@m
7660     \newinsert\bx@n
7661     \newinsert\bx@o
7662     \newinsert\bx@p
7663     \newinsert\bx@q
7664     \newinsert\bx@r
7665     \newinsert\bx@s
7666     \newinsert\bx@t
7667     \newinsert\bx@u
7668     \newinsert\bx@v
7669     \newinsert\bx@w
7670     \newinsert\bx@x
7671     \newinsert\bx@y
7672     \newinsert\bx@z

```



```

7673 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7674 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7675 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7676 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7677 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7678 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7679 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7680 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7681 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7682 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7683 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7684 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7685 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7686 \ifthenelse{\isundefined{\bx@AA}}{%
7687 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7688 \newinsert\bx@AA
7689 \newinsert\bx@BB
7690 \newinsert\bx@CC
7691 \newinsert\bx@DD
7692 \newinsert\bx@EE
7693 \newinsert\bx@FF
7694 \newinsert\bx@GG
7695 \newinsert\bx@HH
7696 \newinsert\bx@II
7697 \newinsert\bx@JJ
7698 \newinsert\bx@KK
7699 \newinsert\bx@LL
7700 \newinsert\bx@MM
7701 \newinsert\bx@NN
7702 \newinsert\bx@OO
7703 \newinsert\bx@PP
7704 \newinsert\bx@QQ
7705 \newinsert\bx@RR
7706 \newinsert\bx@SS
7707 \newinsert\bx@TT
7708 \newinsert\bx@UU
7709 \newinsert\bx@VV
7710 \newinsert\bx@WW
7711 \newinsert\bx@XX
7712 \newinsert\bx@YY
7713 \newinsert\bx@ZZ
7714 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7715 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7716 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7717 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7718 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7719 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7720 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7721 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7722 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7723 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7724 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7725 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7726 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE

```



```

7727         \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7728         \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7729         \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7730         \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7731         \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7732     }{%
7733     \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7734     {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7735     }%
7736 }%
7737 }
7738 \newboolean{@biditytfloat@packages@subfigure}
7739 \setboolean{@biditytfloat@packages@subfigure}{false}
7740 \AtBeginDocument{%
7741   \@ifpackageloaded{subfigure}
7742   {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7743   {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7744 }
7745 \AtBeginDocument{%
7746   \@ifpackageloaded{float}{%
7747     % Save the redefined float environment (instead of the LaTeX float environment)
7748     \let\@biditytfloat@orig@float\@float
7749     \let\@biditytfloat@orig@endfloat\endfloat
7750
7751     % Define Tuftian float styles (with the caption in the margin)
7752     \newcommand{\floatc@biditytfloatplain}[2]{%
7753       \begin{lrbox}{\@biditytfloat@caption@box}%
7754         \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7755           \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7756         }
7757       \end{minipage}%
7758       \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7759     }
7760     \newcommand{\fs@biditytfloatplain}{%
7761       \def\@fs@cfont{\@biditytfloat@caption@font}%
7762       \let\@fs@capt\floatc@biditytfloatplain%
7763       \def\@fs@pre{}%
7764       \def\@fs@post{}%
7765       \def\@fs@mid{}%
7766       \let\@fs@iftopcapt\iftrue%
7767     }
7768     \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7769     \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7770     \newcommand\floatc@biditytfloatruled[2]{%
7771       {\@fs@cfont #1} #2\par%
7772     }
7773     \newcommand\fs@biditytfloatruled{%
7774       \def\@fs@cfont{\@biditytfloat@caption@font}%
7775       \let\@fs@capt\floatc@biditytfloatplain%
7776       \def\@fs@pre{\hrule height .8pt depth 0pt width\textwidth \kern2pt}%
7777       \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7778       \def\@fs@mid{}%
7779       \let\@fs@iftopcapt\iftrue%
7780     }

```




```

7781 \newcommand\fs@biditytfloatboxed{%
7782 \def\@fs@cfont{}}%
7783 \let\@fs@capt\floatc@biditytfloatplain%
7784 \def\@fs@pre{%
7785 \setbox\@currbox\ vbox{\hbadness10000
7786 \moveleft3.4pt\ vbox{\advance\hsize by6.8pt
7787 \hrule \hbox to\hsize{\vrule\kern3pt
7788 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7789 }%
7790 \def\@fs@mid{\kern2pt}%
7791 \def\@fs@post{}}%
7792 \let\@fs@iftopcapt\iftrue%
7793 }
7794 }-%
7795 % Nothing to do
7796 }
7797 }
7798 \AtBeginDocument{%
7799 \@ifpackageloaded{algorithm}{%
7800 % Set the float style to the Tuftian version
7801 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\AL
7802 \biditytfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7803 \floatstyle{biditytfloat\ALG@floatstyle}%
7804 \restylefloat{algorithm}%
7805 }-{}%
7806 }-%
7807 % Nothing to do
7808 }
7809 }
7810 \PassOptionsToPackage{caption=false}{subfig}

```

54 File biditytfloatsidenote.sty

```

7811 \NeedsTeXFormat{LaTeX2e}
7812 \ProvidesPackage{biditytfloatsidenote}[2017/08/09 v0.4
7813 bidi implementation of tufte sidenote]
7814 \RequirePackage{xifthen}
7815 \RequirePackage{ragged2e}
7816 \RequirePackage{setspace}
7817 \RequirePackage{biditytools}
7818 \def\biditytfloatsidenotemarginpar{%
7819 \ifhmode
7820 \@bsphack
7821 \@floatpenalty -\@Mii
7822 \else
7823 \@floatpenalty-\@Miii
7824 \fi
7825 \ifinner
7826 \@parmoderr
7827 \@floatpenalty\z@
7828 \else
7829 \@next\@currbox\@freelist{}-{}%
7830 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7831 {\@floatpenalty\z@

```



```

7832         \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7833     \fi
7834     \@ifnextchar [\@bidityftesidenotexmpar\@bidityftesidenoteympar}
7835 \long\def\@bidityftesidenotexmpar[#1]#2{%
7836     \@bidityftesidenotesavemarbox\@marbox{#1}%
7837     \@bidityftesidenotesavemarbox\@currbox{#2}%
7838     \@xympar}
7839 \long\def\@bidityftesidenoteympar#1{%
7840     \@bidityftesidenotesavemarbox\@marbox{#1}%
7841     \global\setbox\@currbox\copy\@marbox
7842     \@xympar}
7843 \long\def \@bidityftesidenotesavemarbox #1#2{%
7844     \global\setbox #1%
7845         \color@vbox
7846         \vtop{%
7847             \hsize\marginparwidth
7848             \@parboxrestore
7849             \@bidityftesidenotemarginparreset
7850             #2%
7851             \@minipagefalse
7852             \outer@nobreak
7853             }%
7854     \color@endbox
7855 }
7856 \def \@bidityftesidenotemarginparreset {%
7857     \reset@font
7858     \normalsize
7859     \@minipagetrue
7860     \everypar{\@minipagefalse\everypar{} \if@RTL@footnote\beginR\else\beginL\fi}%
7861 }
7862 \def\LTRbidityftesidenotemarginpar{%
7863     \ifhmode
7864         \@bsphack
7865         \@floatpenalty -\@Mii
7866     \else
7867         \@floatpenalty-\@Miii
7868     \fi
7869     \ifinner
7870         \@parmoderr
7871         \@floatpenalty\z@
7872     \else
7873         \@next\@currbox\@freelist{}{}%
7874         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7875         {\@floatpenalty\z@
7876         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7877     \fi
7878     \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7879 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7880     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7881     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7882     \@xympar}
7883 \long\def\@LTRbidityftesidenoteympar#1{%
7884     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7885     \global\setbox\@currbox\copy\@marbox

```



```

7886 \@xympar}
7887 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7888 \global\setbox #1%
7889 \color@vbox
7890 \vtop{%
7891 \hsize\marginparwidth
7892 \@parboxrestore
7893 \@LTRbidityftesidenotemarginparreset
7894 #2%
7895 \@minipagefalse
7896 \outer@nobreak
7897 }%
7898 \color@endbox
7899 }
7900 \def \@LTRbidityftesidenotemarginparreset {%
7901 \reset@font
7902 \normalsize
7903 \@minipagetrue
7904 \everypar{\@minipagefalse\everypar}\beginL}%
7905 }
7906 \def\RTLbidityftesidenotemarginpar{%
7907 \ifhmode
7908 \@bsphack
7909 \@floatpenalty -\@Mii
7910 \else
7911 \@floatpenalty-\@Miii
7912 \fi
7913 \ifinner
7914 \@parmoderr
7915 \@floatpenalty\z@
7916 \else
7917 \@next\@currbox\@freelist{}{}%
7918 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7919 {\@floatpenalty\z@
7920 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7921 \fi
7922 \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7923 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7924 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7925 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7926 \@xympar}
7927 \long\def\@RTLbidityftesidenoteympar#1{%
7928 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7929 \global\setbox\@currbox\copy\@marbox
7930 \@xympar}
7931 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7932 \global\setbox #1%
7933 \color@vbox
7934 \vtop{%
7935 \hsize\marginparwidth
7936 \@parboxrestore
7937 \@RTLbidityftesidenotemarginparreset
7938 #2%
7939 \@minipagefalse

```



```

7940     \outer@nobreak
7941     }%
7942     \color@endbox
7943 }
7944 \def \@RTLbidituftesidenotemarginparreset {%
7945     \reset@font
7946     \normalsize
7947     \@minipagetrue
7948     \everypar{\@minipagefalse\everypar}\beginR}%
7949 }
7950 \newcommand*{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
7951 \newcommand*{\@bidituftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7952 \newcommand*{\@bidituftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7953 \newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
7954 \newcommand*{\@bidituftesidenote@LTRsidenote@font}{\@bidituftesidenote@LTRmarginfont}
7955 \newcommand*{\@bidituftesidenote@RTLSidenote@font}{\@bidituftesidenote@RTLmarginfont}
7956 \newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
7957 \newcommand*{\@bidituftesidenote@LTRmarginnote@font}{\@bidituftesidenote@LTRmarginfont}
7958 \newcommand*{\@bidituftesidenote@RTLmarginnote@font}{\@bidituftesidenote@RTLmarginfont}
7959 \newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
7960 \newcommand*{\@bidituftesidenote@LTRcitation@font}{\@bidituftesidenote@LTRmarginfont}
7961 \newcommand*{\@bidituftesidenote@RTLcitation@font}{\@bidituftesidenote@RTLmarginfont}
7962 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
7963 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRsidenote@font}{#1}}
7964 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLSidenote@font}{#1}}
7965 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
7966 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@LTRmarginnote@font}}
7967 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@RTLmarginnote@font}}
7968 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
7969 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidituftesidenote@LTRcitation@font}{#1}}
7970 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidituftesidenote@RTLcitation@font}{#1}}
7971 \newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@}
7972 \newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@}
7973 \newcommand*{\@bidituftesidenote@citation@justification}{\@bidituftesidenote@justification@}
7974 \newcommand*{\@bidituftesidenote@justification@autodetect}{\justifying}%
7975 \newcommand{\@bidituftesidenote@margin@par}{%
7976     \setlength{\RaggedRightParindent}{0.5pc}%
7977     \setlength{\JustifyingParindent}{0.5pc}%
7978     \setlength{\parindent}{0.5pc}%
7979     \setlength{\parskip}{0pt}%
7980 }
7981 %%
7982 % Globally sets the length
7983 \@ifundefined{gsetlength}{%
7984 \newcommand*{gsetlength}[2]{%
7985     \setlength{#1}{#2}%
7986     \global#1=#1\relax%
7987 }%
7988 }{}
7989
7990 %%
7991 % A function that removes leading and trailing spaces from the supplied macro.
7992 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7993 % Executing \@bidituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy

```



```

7994 % being trimmed of leading and trailing white space.
7995 \catcode\Q=3
7996 \def\@bidityftesidenote@trim@spaces#1{%
7997   % Use grouping to emulate a multi-token afterassignment queue
7998   \begingroup%
7999   % Put \toks 0 {' into the afterassignment queue
8000   \aftergroup\toks\aftergroup0\aftergroup{%
8001   % Apply \trimb to the replacement text of #1, adding a leading
8002   % \noexpand to prevent brace stripping and to serve another purpose
8003   % later.
8004   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8005   % Transfer the trimmed text back into #1.
8006   \edef#1{\the\toks0}%
8007 }
8008 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8009 % clean up any leftover bizarre Qs, and trim a leading space. In
8010 % order for \trimc to work properly we need to put back a Q first.
8011 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8012 % Execute \vfuzz assignment to remove leading space; the \noexpand
8013 % will now prevent unwanted expansion of a macro or other expandable
8014 % token at the beginning of the trimmed text. The \endgroup will feed
8015 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8016 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8017 \catcode\Q=11
8018 %%
8019 % Citations should go in the margin as sidenotes
8020
8021 \RequirePackage{natbib}
8022 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8023 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8024 \renewcommand\BR@b@bibitem[2] []{%
8025   \ifthenelse{\isempty{#1}}%
8026     {\BR@bibitem{#2}}%
8027     {\BR@bibitem{#1}{#2}}%
8028   \BR@c@bibitem{#2}%
8029 }
8030 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8031 %%
8032 % Normal \cite behavior
8033 \newcounter{@bidityftesidenote@num@bibkeys}%
8034 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
8035   % Snag the last bibentry in the list for later comparison
8036   \let\@temp@last@bibkey\@empty%
8037   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8038   \sidenote[] [#1]{%
8039     % Loop through all the bibentries, separating them with semicolons and spaces
8040     \normalsize\normalfont\@bidityftesidenote@citation@font%
8041     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8042     \@for\@temp@bibkeyx:=#2\do{%
8043       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8044         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8045         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8046         \bibentry{\@temp@bibkeyx}}%
8047     {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

8048         \bibentry{\@temp@bibkeyx};\ }%
8049         \stepcounter{@bidituftesidenote@num@bibkeys}%
8050     }%
8051 }%
8052 }
8053 \newcommand{\@biditufteLTRsidenote@normal@cite}[2][Opt]{%
8054 % Snag the last bibentry in the list for later comparison
8055 \let\@temp@last@bibkey\@empty%
8056 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8057 \LTRsidenote[] [#1]{%
8058 % Loop through all the bibentries, separating them with semicolons and spaces
8059 \normalsize\normalfont\@bidituftesidenote@LTRcitation@font%
8060 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8061 \@for\@temp@bibkeyx:=#2\do{%
8062 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8063   {\ifthenelse{equal{value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8064     \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8065     \bibentry{\@temp@bibkeyx}}%
8066   {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8067     \bibentry{\@temp@bibkeyx};\ }%
8068 \stepcounter{@bidituftesidenote@num@bibkeys}%
8069 }%
8070 }%
8071 }
8072 \newcommand{\@biditufteRTLSidenote@normal@cite}[2][Opt]{%
8073 % Snag the last bibentry in the list for later comparison
8074 \let\@temp@last@bibkey\@empty%
8075 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8076 \RTLSidenote[] [#1]{%
8077 % Loop through all the bibentries, separating them with semicolons and spaces
8078 \normalsize\normalfont\@bidituftesidenote@citation@font%
8079 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8080 \@for\@temp@bibkeyx:=#2\do{%
8081 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8082   {\ifthenelse{equal{value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8083     \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8084     \bibentry{\@temp@bibkeyx}}%
8085   {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8086     \bibentry{\@temp@bibkeyx};\ }%
8087 \stepcounter{@bidituftesidenote@num@bibkeys}%
8088 }%
8089 }%
8090 }
8091 %%
8092 % Macros for holding the list of cite keys until after the \sidenote
8093 \gdef\@bidituftesidenote@citations{}% list of cite keys
8094 \newcommand\@bidituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8095 \ifx\@bidituftesidenote@citations\@empty\else
8096 \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
8097 \fi
8098 \g@addto@macro\@bidituftesidenote@citations{#1}
8099 }
8100 \newcommand{\@bidituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8101 % Snag the last bibentry in the list for later comparison

```



```

8102 \let\@temp@last@bibkey\@empty%
8103 \for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8104 \marginpar{%
8105   \hbox{ }\vspace*{#1}%
8106   \@bidityftesidenote@citation@font%
8107   \@bidityftesidenote@citation@justification%
8108   \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8109   \vspace*{-1\baselineskip}%
8110   % Loop through all the bibentries, separating them with semicolons and spaces
8111   \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8112   \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8113     \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8114       {\ifthenelse{equal{value{\@bidityftesidenote@num@bibkeys}}{0}}{and\ }%
8115         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8116         \bibentry{\@temp@bibkeyx}}%
8117       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8118         \bibentry{\@temp@bibkeyx};\ }%
8119     \stepcounter{\@bidityftesidenote@num@bibkeys}%
8120   }%
8121 }%
8122 }
8123 %%
8124 % \cite behavior when executed within a sidenote
8125 \newcommand{\@bidityftesidenote@sidenote@citations}{% contains list of \cites in sidenote
8126 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8127 \@bidityftesidenote@add@citation{#1}
8128 }
8129 %%
8130 % Set the default \cite style. This is set and reset by the \sidenote command.
8131 \let\cite\@bidityftesidenote@normal@cite
8132 \let\LTRcite\@bidityftesidenote@normal@cite
8133 \let\RTLcite\@bidityftesidenote@normal@cite
8134 %%
8135 % Transform existing \footnotes into \sidenotes
8136 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8137 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8138 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8139 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8140 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8141 % sidenote's text block.
8142 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidityftesidenote
8143 % Set the in-text footnote mark in the same typeface as the body text itself.
8144 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8145 \providecommand*\multiplefootnotemark}{3sp}
8146 \providecommand*\multfootsep}{,}
8147 \bidi@patch@AfterPackage{bidi}{%
8148 \renewcommand{\@footnotemark}{%
8149 \leavevmode%
8150 \ifhmode%
8151   \edef\@xsf{\the\spacefactor}%
8152   \@bidityftesidenote@check@multiple@sidenotes%
8153   \nobreak%
8154 \fi%
8155 \@makefnmark%

```



```

8156 \ifhmode\spacefactor\@x@sf\fi%
8157 \relax%
8158 }%
8159 }
8160 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8161 \ifdim\lastkern=\multiplefootnotemarker\relax%
8162 \edef\@x@sf{\the\spacefactor}%
8163 \unkern%
8164 \textsuperscript{\multfootsep}%
8165 \spacefactor\@x@sf\relax%
8166 \fi
8167 }
8168 \bidi@patch@AfterPackage{bidi}{%
8169 \renewcommand\@footnotetext[2][Opt]{%
8170 \bidityftesidenotemarginpar{%
8171 \hbox{ }\vspace*{#1}%
8172 \def\baselinestretch {\setspace@singlespace}%
8173 \reset@font%
8174 \bidi@@footnotetext@font% \reset@font\footnotesize%
8175 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8176 \vspace*{-1\baselineskip}\noindent%
8177 \protected@edef\@currentlabel{%
8178 \csname p@footnote\endcsname\@thefnmark%
8179 }%
8180 \color@begingroup%
8181 \@makefnmark%
8182 \ignorespaces#2%
8183 }%
8184 \color@endgroup%
8185 }%
8186 }%
8187 \renewcommand\@LTRfootnotetext[2][Opt]{%
8188 \LTRbidityftesidenotemarginpar{%
8189 \hbox{ }\vspace*{#1}%
8190 \def\baselinestretch {\setspace@singlespace}%
8191 \reset@font%
8192 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8193 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8194 \vspace*{-1\baselineskip}\noindent%
8195 \protected@edef\@currentlabel{%
8196 \csname p@footnote\endcsname\@thefnmark%
8197 }%
8198 \color@begingroup%
8199 \@makefnmark%
8200 \ignorespaces#2%
8201 }%
8202 \color@endgroup%
8203 }%
8204 }%
8205 \renewcommand\@RTLfootnotetext[2][Opt]{%
8206 \RTLbidityftesidenotemarginpar{%
8207 \hbox{ }\vspace*{#1}%
8208 \def\baselinestretch {\setspace@singlespace}%
8209 \reset@font%

```




```

8210 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8211 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8212 \vspace*{-1\baselineskip}\noindent%
8213 \protected@edef\@currentlabel{%
8214 \csname p@footnote\endcsname\@thefnmark%
8215 }%
8216 \color@begingroup%
8217 \makefnmark{%
8218 \ignorespaces#2%
8219 }%
8220 \color@endgroup%
8221 }%
8222 }%
8223 }
8224 %
8225 % Define \sidenote command. Can handle \cite.
8226 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8227 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8228 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8229 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8230 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8231 \gdef\@bidityftesidenote@citations{}}% clear out any old citations
8232 \ifthenelse{\NOT\isempty{#2}}{%
8233 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8234 }{%
8235 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8236 }%
8237 \ifthenelse{\isempty{#1}}{%
8238 % no specific footnote number provided
8239 \stepcounter\@mpfn%
8240 \protected@xdef\@thefnmark{\thempfn}%
8241 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8242 }{%
8243 % specific footnote number provided
8244 \begingroup%
8245 \csname c@\@mpfn\endcsname #1\relax%
8246 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8247 \endgroup%
8248 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8249 }%
8250 \@bidityftesidenote@print@citations% print any citations
8251 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8252 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8253 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8254 \unskip\ignorespaces% remove extra white space
8255 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8256 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8257 }
8258 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8259 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8260 \gdef\@bidityftesidenote@citations{}}% clear out any old citations
8261 \ifthenelse{\NOT\isempty{#2}}{%
8262 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8263 }{%

```



```

8264 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
8265 }%
8266 \ifthenelse{\isempty{#1}}{%
8267 % no specific footnote number provided
8268 \stepcounter\@mpfn%
8269 \protected@xdef\@thefnmark{\thempfn}%
8270 \@footnotemark\@LTRfootnotetext [\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8271 }{%
8272 % specific footnote number provided
8273 \begingroup%
8274 \csname c@\@mpfn\endcsname #1\relax%
8275 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8276 \endgroup%
8277 \@footnotemark\@LTRfootnotetext [\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8278 }%
8279 \@bidityftesidenote@print@citations% print any citations
8280 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8281 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8282 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8283 \unskip\ignorespaces% remove extra white space
8284 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8285 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8286 }
8287 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8288 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8289 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8290 \ifthenelse{\NOT\isempty{#2}}{%
8291 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8292 }{%
8293 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
8294 }%
8295 \ifthenelse{\isempty{#1}}{%
8296 % no specific footnote number provided
8297 \stepcounter\@mpfn%
8298 \protected@xdef\@thefnmark{\thempfn}%
8299 \@footnotemark\@RTLfootnotetext [\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8300 }{%
8301 % specific footnote number provided
8302 \begingroup%
8303 \csname c@\@mpfn\endcsname #1\relax%
8304 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8305 \endgroup%
8306 \@footnotemark\@RTLfootnotetext [\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8307 }%
8308 \@bidityftesidenote@print@citations% print any citations
8309 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8310 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8311 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8312 \unskip\ignorespaces% remove extra white space
8313 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8314 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8315 }
8316 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8317 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}

```



```

8318 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8319 \bidi@patch@AfterPackage{bidi}{%
8320 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8321 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8322 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8323 }
8324 %%
8325 % Sidenote without the footnote mark
8326 \newcommand\marginnote[2] [Opt]{%
8327 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8328 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8329 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations% print any citations
8330 \@bidityftesidenote@print@citations%
8331 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8332 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8333 \let\RLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8334 }
8335 \newcommand\LTRmarginnote[2] [Opt]{%
8336 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8337 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8338 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations% print any citations
8339 \@bidityftesidenote@print@citations%
8340 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8341 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8342 \let\RLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8343 }
8344 \newcommand\RTLMarginnote[2] [Opt]{%
8345 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8346 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8347 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLMarginnote@font\@bidityftesidenote@print@citations% print any citations
8348 \@bidityftesidenote@print@citations%
8349 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8350 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8351 \let\RLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8352 }

```

55 File bidityftetoc.sty

```

8353 \NeedsTeXFormat{LaTeX2e}
8354 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8355 bidi implementation of tufte toc]
8356 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8357 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8358 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8359 %%
8360 % Turn off section numbering
8361 \setcounter{secnumdepth}{-1}
8362 \newboolean{\@bidityftetoc@toc}
8363 \setboolean{\@bidityftetoc@toc}{true}
8364 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8365 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8366 \ProcessOptions
8367 %%
8368 % Make Tufte-style section headings and TOC formatting

```



```

8369 \bidi@patch@AfterPackage{bidi}{%
8370 \titleformat{\chapter}%
8371 [display]% shape
8372 {\relax\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\begin{fullwidth}}{}}% format
8373 {\itshape\huge\thechapter}% label
8374 {0pt}% horizontal separation between label and title body
8375 {\huge\rmfamily\itshape}% before the title body
8376 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}}% after the title
8377 \titleformat{\section}%
8378 [hang]% shape
8379 {\normalfont\Large\itshape}% format applied to label+text
8380 {\thesection}% label
8381 {1em}% horizontal separation between label and title body
8382 {}% before the title body
8383 []% after the title body
8384 \titleformat{\subsection}%
8385 [hang]% shape
8386 {\normalfont\large\itshape}% format applied to label+text
8387 {\thesubsection}% label
8388 {1em}% horizontal separation between label and title body
8389 {}% before the title body
8390 []% after the title body
8391 \titleformat{\paragraph}%
8392 [runin]% shape
8393 {\normalfont\itshape}% format applied to label+text
8394 {\theparagraph}% label
8395 {1em}% horizontal separation between label and title body
8396 {}% before the title body
8397 []% after the title body
8398 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8399 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8400 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
8401 }
8402 % Subsubsection and following section headings shouldn't be used.
8403 % See Bringhurst's The Elements of Typography, section 4.2.2.
8404 \renewcommand\subsubsection{%
8405 \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8406 \MessageBreak See Robert Bringhurst's The Elements of
8407 \MessageBreak Typographic Style, section 4.2.2.
8408 \MessageBreak \noexpand\subsubsection was used}
8409 {From Bringhurst's The Elements of Typographic Style, section 4.2.2: Use as
8410 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8411 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8412 }
8413 \renewcommand\subparagraph{%
8414 \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8415 \MessageBreak See Robert Bringhurst's The Elements of
8416 \MessageBreak Typographic Style, section 4.2.2.
8417 \MessageBreak \noexpand\subparagraph was used}
8418 {From Bringhurst's The Elements of Typographic Style, section 4.2.2: Use as
8419 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8420 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8421 }
8422 % Formatting for main TOC (printed in front matter)

```



```

8423 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8424 \ifthenelse{\boolean{@bidityfttoc}}{%
8425   \bidi@patch@AfterPackage{bidi}{%
8426     \titlecontents{part}% FIXME
8427     [0em] % distance from left margin
8428     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format)
8429     {\contentslabel{2em}} % before w/label (label = ``II'')
8430     {} % before w/o label
8431     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8432     [\end{fullwidth}] % after
8433   \titlecontents{chapter}%
8434     [0em] % distance from left margin
8435     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format)
8436     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8437     {\hspace*{0em}} % before w/o label
8438     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8439     [\end{fullwidth}] % after
8440   \titlecontents{section}% FIXME
8441     [0em] % distance from left margin
8442     {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format)
8443     {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8444     {\hspace*{2em}} % before w/o label
8445     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8446     [\end{fullwidth}] % after
8447   \titlecontents{subsection}% FIXME
8448     [0em] % distance from left margin
8449     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format)
8450     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8451     {\hspace*{4em}} % before w/o label
8452     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8453     [\end{fullwidth}] % after
8454   \titlecontents{paragraph}% FIXME
8455     [0em] % distance from left margin
8456     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format)
8457     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8458     {\hspace*{6em}} % before w/o label
8459     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
8460     [\end{fullwidth}] % after
8461 }%
8462 }{}
8463 %%
8464 % Format lists of figures/tables
8465 \renewcommand\listoffigures{%
8466   \@ifundefined{chapter}%
8467     {\section*{\listfigurename}}%
8468     {\chapter*{\listfigurename}}%
8469 %   \begin{fullwidth}%
8470 %     \@starttoc{lof}%
8471 %   \end{fullwidth}%
8472 }
8473 \renewcommand\listoftables{%
8474   \@ifundefined{chapter}%
8475     {\section*{\listtablename}}%
8476     {\chapter*{\listtablename}}%

```



```

8477 % \begin{fullwidth}%
8478 % \starttoc{lot}%
8479 % \end{fullwidth}%
8480 }
8481 \newcommand{\@biditytetoc@lof@line}[2]{%
8482 % #1 is the figure/table number and its caption text
8483 % #2 is the page number on which the figure/table appears
8484 \leftskip 0.0em
8485 \rightskip 0em
8486 \parfillskip 0em plus 1fil
8487 \parindent 0.0em
8488 \@afterindenttrue
8489 \interlinepenalty\@M
8490 \leavevmode
8491 \@tempdima 2.0em
8492 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8493 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8494 {#1}\nobreak\quad\nobreak#2%
8495 \par%
8496 }
8497 \renewcommand*\l@figure{\@biditytetoc@lof@line}
8498 \let\l@table\l@figure

```

56 File `bidituftegeneralstructure.sty`

```

8499 \NeedsTeXFormat{LaTeX2e}
8500 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8501 bidi implementation of tufte general structure]
8502 \renewcommand\small{%
8503   \@setfontsize\small\@ixpt{12}%
8504   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8505   \abovedisplayshortskip \z@ \@plus2\p@
8506   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8507   \def\@listi{\leftmargin\leftmargini
8508     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8509     \parsep 2\p@ \@plus\p@ \@minus\p@
8510     \itemsep \parsep}%
8511   \belowdisplayskip \abovedisplayskip
8512 }
8513 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8514 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8515 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8516 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8517 \renewcommand\LARGE{\@setfontsize\LARGE\@xvpt{18}}
8518 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8519 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8520 \setlength\leftmargini {1pc}
8521 \setlength\leftmarginii {1pc}
8522 \setlength\leftmarginiii {1pc}
8523 \setlength\leftmarginiv {1pc}
8524 \setlength\leftmarginv {1pc}
8525 \setlength\leftmarginvi {1pc}
8526 \setlength\labelsep {0.5pc}
8527 \setlength\labelwidth {\leftmargini}

```



```

8528 \addtolength\labelwidth{-\labelsep}
8529 \setlength{\parindent}{1.0pc}%
8530 \setlength{\parskip}{0pt}%
8531 \RequirePackage{ragged2e}
8532 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8533 % Paragraph indentation and separation for normal text
8534 \newcommand{\@biditytgeneralstructure@reset@par}{%
8535   \setlength{\RaggedRightParindent}{1.0pc}%
8536   \setlength{\JustifyingParindent}{1.0pc}%
8537   \setlength{\parindent}{1pc}%
8538   \setlength{\parskip}{0pt}%
8539 }
8540 \@biditytgeneralstructure@reset@par
8541 % Require paralist package for tighter lists
8542 \RequirePackage{paralist}
8543 % Add rightmargin to compactenum
8544 \def\@compactenum@{%
8545   \expandafter\list\csname label\@enumctr\endcsname{%
8546     \usecounter{\@enumctr}%
8547     \rightmargin=2em% added this
8548     \parsep\plparsep
8549     \itemsep\plitemsep
8550     \topsep\pltopsep
8551     \partopsep\plpartopsep
8552     \def\makelabel##1{\hss\llap{##1}}}}
8553 %%
8554 % An environment for paragraph-style section
8555 \providecommand\newthought[1]{%
8556   \advvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8557   \noindent\textbf{#1}%
8558 }
8559 %%
8560 % Redefine the display environments (quote, quotation, etc.)
8561 \renewenvironment{verse}
8562   {\let\@centercr
8563     \list{}{\itemsep \z@
8564       \itemindent -1pc%
8565       \listparindent\itemindent
8566       \rightmargin \leftmargin
8567       \advance\leftmargin 1pc}%
8568   \small%
8569   \item\relax}
8570 {\endlist}
8571 \renewenvironment{quotation}
8572   {\list{}{\listparindent 1pc%
8573     \itemindent \listparindent
8574     \rightmargin \leftmargin
8575     \parsep \z@ \@plus\p@}%
8576   \small%
8577   \item\relax\noindent\ignorespaces}
8578 {\endlist}
8579 \renewenvironment{quote}
8580   {\list{}{\rightmargin\leftmargin}%
8581   \small%

```



```

8582             \item\relax}
8583             {\endlist}
8584 % Italicize description run-in headings (instead of the default bold)
8585 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8586 %%
8587 % Redefine \bibsection to not mark the running heads.
8588 % (Code modified from natbib.sty.)
8589 \@ifundefined{chapter}%
8590   {\renewcommand\bibsection{\section*{\refname}}}
8591   {\@ifundefined{NAT@sectionbib}%
8592     {\renewcommand\bibsection{\chapter{\bibname}}}
8593     {\renewcommand\bibsection{\section*{\bibname}}}}
8594 \RequirePackage{multicol}
8595 \renewenvironment{theindex}{%
8596   \@ifundefined{chapter}%
8597     {\section*{\indexname}}%
8598     {\chapter{\indexname}}%
8599   \begin{fullwidth}%
8600   \small%
8601   \parskip0pt%
8602   \parindent0pt%
8603   \let\item\@idxitem%
8604   \begin{multicols}{3}%
8605 }{%
8606   \end{multicols}%
8607   \end{fullwidth}%
8608 }
8609 \AtBeginDocument{%
8610 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8611 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8612 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}
8613 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8614 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8615 \NeedsTeXFormat{LaTeX2e}
8616 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8617 bidi implementation of tufte hyperref]
8618 %%
8619 % Color
8620 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8621 \newboolean{@bidituftehyperref@loadhyper}
8622 \setboolean{@bidituftehyperref@loadhyper}{true}
8623 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8624 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8625 \ProcessOptions
8626 %% Loads the hyperref package and sets some default options.
8627 \newcommand{\bidituftehyperrefLoadHyperref}{%
8628 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8629 \hypersetup{%
8630   bookmarksdepth = section,
8631   citecolor = DarkGreen,
8632   linkcolor = DarkBlue,

```




```

8633 %   pagecolor = DarkBlue,
8634   urlcolor = DarkGreen,
8635 }%
8636 }
8637 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8638   \bidituftehyperrefLoadHyperref%
8639 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8640   \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8641 }

```

58 File bidituftetitle.sty

```

8642 \NeedsTeXFormat{LaTeX2e}
8643 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8644 bidi implementation of tufte title]
8645 \RequirePackage{biditools}
8646 %%
8647 % `titlepage' option -- creates a full title page with \maketitle
8648 \newboolean{@bidituftetitle@titlepage}
8649 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8650 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8651 % Default `book' and `handout' options
8652 \@ifclassloaded{book}{%
8653 \ExecuteOptions{titlepage}}{%
8654 \@ifclassloaded{article}{%
8655 \ExecuteOptions{notitlepage}}%
8656 {}
8657 \ProcessOptions
8658 %%
8659 % Modified \title, \author, and \date commands. These store the
8660 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8661 \newcommand{\plaintitle}{}% plain-text-only title
8662 \newcommand{\plainauthor}{}% plain-text-only author
8663 \newcommand{\plainpublisher}{}% plain-text-only publisher
8664 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8665 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8666 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8667 \newcommand{\@publisher}{}% full publisher with \thanks{}
8668 \newcommand{\thedata}{\today}
8669 \bidi@patch@AfterPackage{bidi}{%
8670 \renewcommand{\thanks}[1]{\footnote{#1}}
8671 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8672 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8673 }
8674 \renewcommand{\title}[2] []{%
8675   \gdef\@title{#2}%
8676   \begingroup%
8677     % TODO store contents of \thanks command
8678     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8679     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8680     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8681     \protected@xdef\thanklesstitle{#2}%
8682   \endgroup%
8683   \ifthenelse{\isempty{#1}}%

```



```

8684   {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8685   {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8686   \@ifundefined{hypersetup}%
8687     {}% hyperref is not loaded; do nothing
8688     {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8689 }
8690 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8691 \renewcommand{\author}[2] []{%
8692   \ifthenelse{\isempty{#2}}{-}{\gdef\@author{#2}}%
8693   \begingroup%
8694     % TODO store contents of \thanks command
8695     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8696     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8697     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8698     \protected@xdef\thanklessauthor{#2}%
8699   \endgroup%
8700   \ifthenelse{\isempty{#1}}%
8701     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8702     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8703   \@ifundefined{hypersetup}%
8704     {}% hyperref is not loaded; do nothing
8705     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8706 }
8707 \renewcommand{\date}[1] {%
8708   \gdef\@date{#1}%
8709   \begingroup%
8710     % TODO store contents of \thanks command
8711     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8712     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8713     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8714     \protected@xdef\thedata{#1}%
8715   \endgroup%
8716 }
8717 %%
8718 % Provides a \publisher command to set the publisher
8719 \newcommand{\publisher}[2] []{%
8720   \gdef\@publisher{#2}%
8721   \begingroup%
8722     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8723     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8724     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8725     \protected@xdef\thanklesspublisher{#2}%
8726   \endgroup%
8727   \ifthenelse{\isempty{#1}}
8728     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8729     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8730 }
8731 %%
8732 % Produces a full title page
8733 \newcommand{\maketitlepage}[0] {%
8734   \cleardoublepage%
8735   {%
8736     \bfseries%
8737     \begin{fullwidth}%

```



```

8738 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8739 \vspace{11.5pc}%
8740 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8741 \vfill%
8742 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8743 \end{fullwidth}%
8744 }
8745 \thispagestyle{empty}%
8746 \clearpage%
8747 }
8748 %%
8749 % Title block
8750 \bidi@AfterEndPreamble{%
8751 \renewcommand{\maketitle}{%
8752 \newpage%
8753 \global\@topnum\z@% prevent floats from being placed at the top of the page
8754 \begingroup%
8755 \setlength{\parindent}{0pt}%
8756 \setlength{\parskip}{4pt}%
8757 \let\@title\@empty%
8758 \let\@author\@empty%
8759 \let\@date\@empty%
8760 \gdef\@title{\LARGE\itshape\@title\par}%
8761 \gdef\@author{\Large\itshape\@author\par}%
8762 \gdef\@date{\Large\itshape\@date\par}%
8763 \@title%
8764 \@author%
8765 \@date%
8766 \endgroup%
8767 \thispagestyle{plain}% suppress the running head
8768 }%
8769 }
8770 %%
8771 % Title page (if the `titlepage' option was passed to the bidityfttitle-handout
8772 % class.)
8773 \bidi@AfterEndPreamble{%
8774 \ifthenelse{\boolean{@bidityfttitle@titlepage}}
8775 {\renewcommand{\maketitle}{\maketitlepage}}
8776 {}
8777 }
8778 %%
8779 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8780 % without headers and footers
8781 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8782 \hbox{}
8783 %\vspace*{\fill}
8784 %\begin{center}
8785 % This page intentionally contains only this sentence.
8786 %\end{center}
8787 %\vspace{\fill}
8788 \thispagestyle{empty}
8789 \newpage
8790 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```



59 File `biditufte-handout.cls`

```
8791 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8792 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8793 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8794 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8795 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8796 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8797 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8798 \ProcessOptions\relax
8799 \LoadClass{article}
8800 \RequirePackage{bidituftefloat}
8801 \RequirePackage{bidituftesidenote}
8802 \RequirePackage{bidituftetoc}
8803 \RequirePackage{bidituftegeneralstructure}
8804 \RequirePackage{bidituftehyperref}
8805 \RequirePackage{bidituftetitle}
8806 \renewenvironment{abstract}
8807   {\begin{quotation}}
8808   {\end{quotation}}
8809 \AtBeginDocument{%
8810 \IfFileExists{biditufte-handout.cfg}
8811   {\input{biditufte-handout.cfg}
8812   \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8813   {}%
8814 }
```

60 File `biditufte-book.cls`

```
8815 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8816 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8817 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8818 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8819 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8820 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8821 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8822 \ProcessOptions\relax
8823 \LoadClass{book}
8824 \RequirePackage{bidituftefloat}
8825 \RequirePackage{bidituftesidenote}
8826 \RequirePackage{bidituftetoc}
8827 \RequirePackage{bidituftegeneralstructure}
8828 \RequirePackage{bidituftehyperref}
8829 \RequirePackage{bidituftetitle}
8830 %%
8831 % Set up any book-specific stuff now
8832 %%
8833 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8834 % to the opening page of Chapter 1. The running heads, when they appear,
8835 % contain only the (arabic) page number in the outside corner.
8836 %\newif\if@mainmatter \@mainmattertrue
8837 \renewcommand\frontmatter{%
8838   \cleardoublepage%
8839   \@mainmatterfalse%
```



```

8840 \pagenumbering{arabic}%
8841 %\pagestyle{plain}%
8842 \fancyhf{}%
8843 \ifthenelse{\boolean{@biditytfloat@twoside}}%
8844 {\fancyhead[LE,RO]{\thepage}}%
8845 {\fancyhead[RE,RO]{\thepage}}%
8846 }
8847 %%
8848 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8849 % numbering---it continues where it left off in the front matter.
8850 \renewcommand\mainmatter{%
8851 \cleardoublepage%
8852 \@mainmattertrue%
8853 \fancyhf{}%
8854 \ifthenelse{\boolean{@biditytfloat@twoside}}%
8855 {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}%
8856 \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8857 \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8858 {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8859 }
8860 %%
8861 % The back matter contains appendices, indices, glossaries, endnotes,
8862 % bibliographies, list of contributors, illustration credits, etc.
8863 \renewcommand\backmatter{%
8864 \if@openright%
8865 \cleardoublepage%
8866 \else%
8867 \clearpage%
8868 \fi%
8869 \@mainmatterfalse%
8870 }
8871 %%
8872 % Only show the chapter titles in the table of contents
8873 \setcounter{tocdepth}{0}
8874 \AtBeginDocument{%
8875 \IfFileExists{biditytufte-book.cfg}
8876 {\input{biditytufte-book.cfg}
8877 \ClassInfo{biditytufte-book}{Loading biditytufte-book configuration file \@gobble}}
8878 {}%
8879 }

```

61 File bidipoem.sty

```

8880 \NeedsTeXFormat{LaTeX2e}
8881 \ProvidesPackage{bidipoem}%
8882 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8883
8884 % Usage:
8885 %
8886 % \Setversedim #1#2 % define the layout (within a group):
8887 % #1 = length of both half-verses
8888 % #2 = separation distance = length of a connection, if present
8889 % Variant:
8890 % \Setversedim #1[#2]#3 % for half-verses of unequal length

```



```

8891 % #1 = length of first (=right) half-verse
8892 % #2 = length of second (=left) half-verse
8893 % #3 = separation distance = length of a connection, if present
8894 %
8895 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8896 % #1 = text of first (=right) half-verse
8897 % #2 = text of second (=left) half-verse
8898 % Variant:
8899 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8900 % #1 = text of first (=right) half-verse
8901 % #2 = text of connection
8902 % #3 = text of second (=left) half-verse
8903 %
8904 % Alternative (if preferred):
8905 %
8906 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8907
8908
8909 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8910
8911 % define the layout, verses will be centered
8912
8913 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8914 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8915
8916 \newcommand*{\Setversesdim}[2]{% set lengths of half-verse, [separation]
8917 \bidipoem@hvind \textwidth
8918 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8919 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8920 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8921
8922 \def \bidipoem@set@verseI [#1]{% optional parameter
8923 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8924
8925 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8926 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8927 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8928
8929 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8930 \ifdim Opt > \bidipoem@hvind %
8931 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8932 \else
8933 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8934 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8935 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8936 \par }
8937
8938 % macro for two half verses
8939 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8940 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8941 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8942 \bidipoem@half@verses@next}
8943
8944 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second

```



```

8945 \traditionalconnverses {#1}{#2}{#3}}
8946
8947
8948 {\catcode`\^^M=\active % these lines must end with %
8949 \gdef\traditionalpoem@obeylines{\catcode`\^^M\active \let^^M\traditionalpoem@par}%
8950 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8951 {\catcode`\^^M=\active % these lines must end with %
8952 \gdef\modernpoem@obeylines{\catcode`\^^M\active \let^^M\modernpoem@par}%
8953 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8954 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8955 \def\poemmarginskip{1em plus 1fil minus 1em}
8956 \def\poemextrabaseskip{0\baselineskip}
8957 \def\poemskip{\medskip}
8958 \newcommand{\bidipoem@openbox}{\leavevmode
8959 \hbox to.77778em{%
8960 \hfil\vrule
8961 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8962 \vrule\hfil}}
8963 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8964 \newdimen\versewidth
8965 \newtoks\bidipoem@p@ftn
8966 \def\poem@verse#1{%
8967 \ifdim\wd#1>\new@poem@width
8968 \xdef\new@poem@width{\the\wd#1}%
8969 \ifdim\new@poem@width>\poem@width
8970 \xdef\poem@width{\new@poem@width}%
8971 \global\let\poem@needrun\relax
8972 \fi
8973 \fi
8974 \hbox to\poem@width{\unhbox#1}%
8975 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8976 }
8977 \def\poem@linebegin{\vadjust{}}\hskip\@flushglue\hskip\poemmarginskip\relax}
8978 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8979 \def\poem@lineversesep{%
8980 \nobreak
8981 \hskip\z@ plus 1filll%
8982 \penalty600%
8983 \hskip\poemcolsepskip
8984 \hskip\z@ plus -2filll%
8985 \vadjust{}}%
8986 \nobreak
8987 \hskip\z@ plus 1filll%
8988 }
8989 \def\poem@lineparsebegin{%
8990 \halign\bgroup
8991 \global\setbox\verse@i=\hbox{%
8992 \let\@footnotetext\bidipoem@p@ftntext%
8993 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8994 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8995 \let\@xfootnotenext\bidipoem@p@xftntext%
8996 \let\@xfootnote\bidipoem@p@xfootnote%
8997 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8998 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%

```



```

8999 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9000 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9001 \ignorespaces##\unskip}&&
9002 \global\setbox\verse@ii=\hbox{%
9003 \let\@footnotetext\bidipoem@p@ftntext%
9004 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9005 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9006 \let\@xfootnotenext\bidipoem@p@xftntext%
9007 \let\@xfootnote\bidipoem@p@xfootnote%
9008 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9009 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9010 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9011 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9012 \ignorespaces##\unskip}
9013 \cr
9014 }
9015 \def\poem@lineparseend{%
9016 \crr\egroup
9017 \vskip-\baselineskip
9018 }
9019 \def\traditionalpoem@cr{%
9020 \cr\poem@line
9021 }
9022 \newbox\verse@i
9023 \newbox\verse@ii
9024 \newif\ifpoem@started
9025
9026 \def\poem@line{%
9027 \poem@lineparseend
9028 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9029 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9030 \ifpoem@started
9031 \ifdim\wd\verse@ii>\z@\else
9032 \nopagebreak[3]
9033 \fi
9034 \leavevmode
9035 \poem@linebegin
9036 \poem@verse\verse@i
9037 \ifdim\wd\verse@ii>\z@
9038 \poem@lineversesep
9039 \poem@verse\verse@ii
9040 \fi
9041 \poem@lineend
9042 % \nopagebreak
9043 \par
9044 \vskip\poemextrabaselineskip
9045 \fi
9046 \poem@lineparsebegin
9047 }
9048 \def\@traditionalpoem{%
9049 \stepcounter{poem@no}
9050 \ifnum\max@poem@no<\number\c@poem@no%
9051 \xdef\poem@width{\z@}%
9052 \else

```




```

9053 \xdef\poem@width{\poem@prop{poem@width}}%
9054 \fi
9055 \xdef\new@poem@width{\z@}%
9056 \global\versewidth=\poem@width
9057 \poemskip\par
9058 \begingroup
9059 \tabskip=\z@
9060 \parskip=\z@
9061 \parindent=\z@
9062 \parfillskip=\z@
9063 \rightskip=\z@
9064 \leftskip=\z@
9065 \widowpenalty=10000% No break between verses of the same line.
9066 \clubpenalty=10000% Same as above. Not really needed.
9067 \def\newblock{\hfil\poemblocksep\hfil\null}%
9068 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9069 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9070 \global\poem@startedfalse
9071 \csname poem@obeylines\endcsname
9072 \let\poem@obeylines\relax
9073 \poem@lineparsebegin
9074 }
9075 \def\@endtraditionalpoem{%
9076 \cr
9077 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9078 \noalign{%
9079 \skip0=\poemextrabaselineskip
9080 \vskip-\skip0
9081 \vskip-\baselineskip
9082 }%
9083 \fi\fi
9084 \poem@lineparseend
9085 \endgroup
9086 \par
9087 \vskip\baselineskip
9088 \poemskip
9089 \ifdim\new@poem@width<\poem@width
9090 \global\let\poem@needrun\relax
9091 \fi
9092 \poem@write@aux{poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9093 \ifx\AtEndDocument\undefined\poem@finish\fi
9094 \@endparenv
9095 }
9096
9097
9098 \long\def\bidipoem@p@ftntext#1{%
9099 \edef\@temp{x\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
9100 \global\bidipoem@p@ftn\expandafter{\@temp{#1}}}%
9101 \long\def\bidipoem@p@LTRftntext#1{%
9102 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
9103 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9104 \long\def\bidipoem@p@RTLftntext#1{%
9105 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
9106 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%

```



```

9107
9108 \long\def\bidipoem@p@xftntext[#1]#2{%
9109   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}
9110
9111 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9112   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}
9113
9114 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9115   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9116
9117 \def\bidipoem@p@xfootnote[#1]{%
9118   \begingroup
9119     \csname c@\@mpfn\endcsname #1\relax
9120     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9121   \endgroup
9122   \@footnotemark\bidipoem@p@xftntext[#1]}
9123
9124 \def\bidipoem@p@xLTRfootnote[#1]{%
9125   \begingroup
9126     \csname c@\@mpfn\endcsname #1\relax
9127     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9128   \endgroup
9129   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9130
9131 \def\bidipoem@p@xRTLfootnote[#1]{%
9132   \begingroup
9133     \csname c@\@mpfn\endcsname #1\relax
9134     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9135   \endgroup
9136   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9137
9138
9139
9140 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9141 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9142 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9143 \def\poem@finish{%
9144 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9145 \ifx\poem@needrun\relax
9146 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
9147 \global\let\poem@needrun\undefined
9148 \fi
9149 }
9150 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9151 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9152 \ifx\max@poem@no\undefined
9153   \def\max@poem@no{0}%
9154 \fi
9155 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9156 \newcommand{\poem@write@aux}[2]{%
9157   \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9158   \@x
9159 }
9160 \def\@modernpoem{%

```



```

9161 \par
9162 \beginngroup
9163 \parskip=\z@
9164 \parindent=\z@
9165 \def\[\{\@settab\@tabplus\ignorespaces}%
9166 \def\]\{\@tabminus\ignorespaces}%
9167 \def\newblock{\poemblocksep}%
9168 \let\newpoem@tabcr\@tabcr
9169 \def\modernpoem@par{% Redefine \par for possible \obeylines
9170 \ifpoem@started\else
9171 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9172 \@stopfield
9173 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9174 \@contfield
9175 \fi
9176 \fi
9177 \ifpoem@started\newpoem@tabcr\fi}%
9178 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9179 \global\poem@startedfalse
9180 \csname poem@obeylines\endcsname
9181 \let\poem@obeylines\relax
9182 \begin{tabbing}%
9183 }
9184 \def\@endmodernpoem{%
9185 \global\poem@startedfalse
9186 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9187 \@stopfield
9188 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9189 \@contfield
9190 \fi
9191 \ifpoem@started\else\let\@stopline\@stopfield\fi
9192 \end{tabbing}%
9193 \endgroup
9194 \par
9195 \if@nparlist \else
9196 \ifdim\lastskip >\z@
9197 \@tempkipa\lastskip \vskip -\lastskip
9198 \advance\@tempkipa\parskip \advance\@tempkipa -\@outerparskip
9199 \vskip\@tempkipa
9200 \fi
9201 \@endparenv
9202 \fi
9203 }
9204 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9205 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9206 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9207 \gdef\@startfield{%
9208 \global\setbox\@curfield\hbox\bgroup%
9209 \let\@footnotetext\bidipoem@p@ftntext%
9210 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9211 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9212 \let\@xfootnotenext\bidipoem@p@xftntext%
9213 \let\@xfootnote\bidipoem@p@xfootnote%
9214 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%

```



```

9215 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9216 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9217 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9218 \color@begingroup}
9219 \gdef\@stopfield{%
9220 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9221 \gdef\@contfield{%
9222 \global\setbox\@curfield\hbox\bgroup%
9223 \let\@footnotetext\bidipoem@p@ftntext%
9224 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9225 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9226 \let\@xfootnotenext\bidipoem@p@xftntext%
9227 \let\@xfootnote\bidipoem@p@xfootnote%
9228 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9229 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9230 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9231 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9232 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9233 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9234 \renewenvironment{theindex}{%
9235 \if@twocolumn
9236 \@restonecolfalse
9237 \else
9238 \@restonecoltrue
9239 \fi
9240 \columnseprule \z@
9241 \columnsep 35\p@
9242 \twocolumn[\@makeschapterhead{\indexname}]%
9243 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9244 \thispagestyle{plain}\parindent\z@
9245 \parskip\z@ \@plus .3\p@\relax
9246 \let\item\@idxitem
9247 }{%
9248 \if@restonecol\onecolumn\else\clearpage\fi}
9249 \renewcommand*\head@style{%
9250 \interlinepenalty \@M
9251 \hyphenpenalty=\@M \exhyphenpenalty=\@M
9252 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizelax}
9253 \renewcommand*\@regtocline[3]{%
9254 \ifnum #1>\c@tocdepth
9255 \else
9256 \vskip\z@\@plus.2\p@
9257 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9258 \if@RTL\rightskip\else\leftskip\fi\unitindent
9259 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9260 \parfillskip\z@
9261 \@tempdima\unitindent
9262 \parindent\z@
9263 \leavevmode
9264 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9265 \hskip 1em \nobreak{\slshape #3}\par

```



```

9266     }%
9267 \fi}
9268 \if@oldtoc
9269 \renewcommand*\l@part[2]{%
9270   \ifnum \c@tocdepth >-2\relax
9271     \addpenalty{-\@highpenalty}%
9272     \addvspace{2.25em \@plus\p@}%
9273     \begingroup
9274       \setlength\@tempdima{3em}%
9275       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9276       \parfillskip -\@pnumwidth
9277       {\leavevmode
9278         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9279         \nobreak
9280         \global\@nobreaktrue
9281         \everypar{\global\@nobreakfalse\everypar{}}%
9282       \endgroup
9283 \fi}
9284 \else
9285   \renewcommand*\l@part{%
9286     \ifnum \c@tocdepth >-2\relax
9287       \addpenalty{-\@highpenalty}%
9288       \addvspace{2.25em \@plus \p@}%
9289       \@regtocline{0}%
9290     \fi}
9291 \fi
9292 \if@oldtoc
9293 \renewcommand*\l@chapter[2]{%
9294   \addpenalty{-\@highpenalty}%
9295   \vskip 1.0em \@plus\p@
9296   \setlength\@tempdima{1.5em}%
9297   \begingroup
9298   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9299   \parfillskip -\@pnumwidth
9300   \leavevmode \bfseries
9301   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9302   \hskip -\if@RTL\rightskip\else\leftskip\fi
9303   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9304   \penalty\@highpenalty
9305   \endgroup}
9306 \else
9307 \renewcommand*\l@chapter{\@regtocline{0}}
9308 \fi
9309 \renewenvironment{abstract}{%
9310   \titlepage
9311   \null\vfil
9312   \section*{\SectFont \abstractname}
9313   \noindent\ignorespaces}
9314 {\par\vfil\null\endtitlepage}
9315 \renewenvironment{thebibliography}[1]
9316 {\chapter*{\bibname}%
9317   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9318   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9319   \bidi@thebibliography@font@hook%

```



```

9320     \list{\@biblabel{\@arabic\c@enumiv}}%
9321         {\settowidth\labelwidth{\@biblabel{#1}}%
9322           \leftmargin\labelwidth
9323           \advance\leftmargin\labelsep
9324           \@openbib@code
9325           \usecounter{enumiv}}%
9326         \let\p@enumiv\@empty
9327         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9328     \sloppy\clubpenalty4000\widowpenalty4000%
9329     \sfcode`. \@m}
9330     {\def\@noitemerr
9331       {\@latex@warning{Empty `thebibliography' environment}}}%
9332     \endlist}
9333 \renewcommand*\left@footnoterule{%
9334   \kern-3\p@
9335   \kern.5\baselineskip
9336   \hrule\@width\unitindent
9337   \kern.4\baselineskip
9338 }
9339 \renewcommand*\right@footnoterule{%
9340   \kern-3\p@
9341   \kern.5\baselineskip
9342   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9343   \kern.4\baselineskip}
9344 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9345 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9346 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9347 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9348 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9349 \renewcommand*\theequation{%
9350   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9351 \renewcommand*\thefigure{%
9352   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9353 \renewcommand*\thetable{%
9354   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9355 \renewcommand*\maketitle{%
9356   \begin{titlepage}%
9357     \let\footnotesize\small
9358     \let\right@footnoterule\relax
9359     \let\left@footnoterule\relax
9360     \let\textwidth\footnoterule\relax
9361     \let \footnote \thanks
9362     \long\def\@makefntext##1{\parindent\z@
9363       \def\labelitemi{\textendash}\@revlabeltrue
9364       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9365     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9366     \if@compatibility\setcounter{page}{0}\fi
9367     \null\vfil
9368     \vskip 60\p@
9369     \begin{center}%
9370       \TitleFont
9371       {\LARGE \def\\{\penalty -\@M}
9372         \if@allcaps
9373           \expandafter\uc@nothanks\@title\thanks\relax

```



```

9374     \else
9375         \@title
9376     \fi\par}%
9377 \vskip 3em%
9378 {\large
9379     \lineskip .75em \parindent\z@
9380     \begin{tabular}[t]{c}%
9381         \if@allcaps
9382             \expandafter\uc@authornothanks\@author\and\relax
9383         \else
9384             \@author
9385         \fi
9386     \end{tabular}\par}%
9387 \vskip 1.5em%
9388 {\large
9389     \if@allcaps
9390         \uppercase\expandafter{\@date}%
9391     \else
9392         \@date
9393     \fi\par}%
9394     \end{center}\par
9395     \@thanks
9396     \vfil\null
9397 \end{titlepage}%
9398 \setcounter{footnote}{0}%
9399 \global\let\thanks\relax
9400 \global\let\maketitle\relax
9401 \global\let\@thanks\@empty
9402 \global\let\@author\@empty
9403 \global\let\@title\@empty
9404 \global\let\@date\@empty
9405 \global\let\title\relax
9406 \global\let\author\relax
9407 \global\let\date\relax
9408 \global\let\and\relax
9409 }

```

63 File boek-xetex-bidi.def

```

9410 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9411 \renewenvironment{theindex}{%
9412     \if@twocolumn
9413         \@restonecolfalse
9414     \else
9415         \@restonecoltrue
9416     \fi
9417     \columnseprule \z@
9418     \columnsep 35\p@
9419     \twocolumn[\@makeschapterhead{\indexname}]%
9420     \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9421     \thispagestyle{plain}\parindent\z@
9422     \parskip\z@ \@plus .3\p@\relax
9423     \let\item\@idxitem
9424 }{%

```



```

9425 \if@restonecol\onecolumn\else\clearpage\fi}
9426 \renewcommand*\head@style{%
9427   \interlinepenalty \@M
9428   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9429   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9430 \renewcommand*\regtocoline[3]{%
9431   \ifnum #1>\c@tocdepth
9432   \else
9433     \vskip\z@\@plus.2\p@
9434     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
9435     \if@RTL\rightskip\else\leftskip\fi\unitindent
9436     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9437     \parfillskip\z@
9438     \@tempdima\unitindent
9439     \parindent\z@
9440     \leavevmode
9441     \hbox{ }\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9442     \hskip 1em \nobreak{\slshape #3}\par
9443     }%
9444   \fi}
9445 \if@oldtoc
9446 \renewcommand*\l@part[2]{%
9447   \ifnum \c@tocdepth >-2\relax
9448     \addpenalty{-\@highpenalty}%
9449     \addvspace{2.25em \@plus\p@}%
9450     \begingroup
9451       \setlength\@tempdima{3em}%
9452       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9453       \parfillskip -\@pnumwidth
9454       {\leavevmode
9455         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9456         \nobreak
9457         \global\@nobraektrue
9458         \everypar{\global\@nobraekfalse\everypar{}}%
9459       \endgroup
9460   \fi}
9461 \else
9462   \renewcommand*\l@part{%
9463     \ifnum \c@tocdepth >-2\relax
9464       \addpenalty{-\@highpenalty}%
9465       \addvspace{2.25em \@plus \p@}%
9466       \@regtocoline{0}%
9467     \fi}
9468 \fi
9469 \if@oldtoc
9470 \renewcommand*\l@chapter[2]{%
9471   \addpenalty{-\@highpenalty}%
9472   \vskip 1.0em \@plus\p@
9473   \setlength\@tempdima{1.5em}%
9474   \begingroup
9475     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9476     \parfillskip -\@pnumwidth
9477     \leavevmode \bfseries
9478     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima

```




```

9479 \hskip -\if@RTL\rightskip\else\leftskip\fi
9480 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9481 \penalty\@highpenalty
9482 \endgroup}
9483 \else
9484 \renewcommand*\l@chapter{\@regtocline{0}}
9485 \fi
9486 \renewcommand*\left@footnoterule{%
9487 \kern-3\p@
9488 \kern.5\baselineskip
9489 \hrule\@width\unitindent
9490 \kern.4\baselineskip
9491 }
9492 \renewcommand*\right@footnoterule{%
9493 \kern-3\p@
9494 \kern.5\baselineskip
9495 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9496 \kern.4\baselineskip}
9497 \renewenvironment{abstract}{%
9498 \titlepage
9499 \null\vfil
9500 \section*\SectFont \abstractname}
9501 \noindent\ignorespaces}
9502 {\par\vfil\null\endtitlepage}
9503 \renewenvironment{thebibliography}[1]
9504 {\chapter*{\bibname}%
9505 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9506 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9507 \bidi@thebibliography@font@hook%
9508 \list{\@biblabel{\@arabic\c@enumiv}}%
9509 {\settowidth\labelwidth{\@biblabel{#1}}%
9510 \leftmargin\labelwidth
9511 \advance\leftmargin\labelsep
9512 \openbib@code
9513 \usecounter{enumiv}%
9514 \let\p@enumiv\@empty
9515 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9516 \sloppy\clubpenalty4000\widowpenalty4000%
9517 \sfcode`. \@m}
9518 {\def\@noitemerr
9519 {\@latex@warning{Empty `thebibliography' environment}}%
9520 \endlist}
9521 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9522 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9523 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9524 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9525 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9526 \renewcommand*\theequation{%
9527 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9528 \renewcommand*\thefigure{%
9529 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9530 \renewcommand*\thetable{%
9531 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9532 \renewcommand*\maketitle{%

```



```

9533 \begin{titlepage}%
9534   \let\footnotesize\small
9535   \let\right@footnoterule\relax
9536   \let\left@footnoterule\relax
9537   \let\textwidth@footnoterule\relax
9538   \let \footnote \thanks
9539   \long\def\@makefntext##1{\parindent\z@
9540     \def\labelitemi{\textendash}\@revlabeltrue
9541     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9542   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9543   \if@compatibility\setcounter{page}{0}\fi
9544   \null\vfil
9545   \vskip 60\p@
9546   \begin{center}%
9547     \TitleFont
9548     {\LARGE \def\{\{\penalty -\@M}
9549       \if@allcaps
9550         \expandafter\uc@nothanks\@title\thanks\relax
9551       \else
9552         \@title
9553       \fi\par}%
9554     \vskip 3em%
9555     {\large
9556       \lineskip .75em \parindent\z@
9557       \begin{tabular}[t]{c}%
9558         \if@allcaps
9559           \expandafter\uc@authornothanks\@author\and\relax
9560         \else
9561           \@author
9562         \fi
9563       \end{tabular}\par}%
9564     \vskip 1.5em%
9565     {\large
9566       \if@allcaps
9567         \uppercase\expandafter{\@date}%
9568       \else
9569         \@date
9570       \fi\par}%
9571     \end{center}\par
9572     \@thanks
9573     \vfil\null
9574   \end{titlepage}%
9575   \setcounter{footnote}{0}%
9576   \global\let\thanks\relax
9577   \global\let\maketitle\relax
9578   \global\let\@thanks\@empty
9579   \global\let\@author\@empty
9580   \global\let\@title\@empty
9581   \global\let\@date\@empty
9582   \global\let\title\relax
9583   \global\let\author\relax
9584   \global\let\date\relax
9585   \global\let\and\relax
9586 }

```



64 File `bookest-xetex-bidi.def`

```
9587 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9588 \def\@makechapterhead#1{%
9589   \vspace*{20\p@}
9590   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9591     \ifnum \c@secnumdepth >\m@ne
9592       \if@mainmatter
9593         {\colorA\huge\scshape \@chapapp\space \thechapter}
9594         \par\nobreak
9595         \vskip 10\p@
9596       \fi
9597     \fi
9598     \interlinepenalty\@M
9599   {\colorB\hrule}
9600   \vskip 15\p@
9601   \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9602     {\colorA\Huge \bfseries #1}\par\nobreak
9603   \if@RTL\end{flushleft}\else\end{flushright}\fi
9604   \vskip 5\p@
9605   {\colorB\hrule}
9606   \vskip 30\p@
9607   }}
9608 \def\@makeschapterhead#1{%
9609   \vspace*{20\p@}
9610   {\parindent \z@ \raggedright \normalfont
9611     {\colorB\hrule}
9612     \vskip 15\p@
9613     \begin{center}
9614       {\colorA\Huge \bfseries #1}\par\nobreak
9615     \end{center}
9616     \vskip 5\p@
9617     {\colorB\hrule}
9618     \vskip 30\p@
9619     }}
```

65 File `book-xetex-bidi.def`

```
9620 \ProvidesFile{book-xetex-bidi.def}[2025/02/02 v1.2 bidi adaptations for standard book class
9621 \renewenvironment{theindex}
9622   {\if@twocolumn
9623     \@restonecolfalse
9624   \else
9625     \@restonecoltrue
9626   \fi
9627   \columnseprule \z@
9628   \columnsep 35\p@
9629   \twocolumn[\@makeschapterhead{\indexname}]%
9630   \@mkboth{\MakeUppercase\indexname}%
9631     {\MakeUppercase\indexname}%
9632   \thispagestyle{plain}\parindent\z@
9633   \parskip\z@ \@plus .3\p@\relax
9634   \let\item\@idxitem}
9635   {\if@restonecol\onecolumn\else\clearpage\fi}
```



```

9636 \IfClassLoadedF{bookest}{%
9637   \if@titlepage
9638   \renewcommand\maketitle{\begin{titlepage}%
9639     \let\footnotesize\small
9640     \let\right@footnoterule\relax
9641     \let\left@footnoterule\relax
9642     \let\textwidth@footnoterule\relax
9643     \let \footnote \thanks
9644     \let \LTRfootnote \LTRthanks
9645     \let \RTLfootnote \RTLthanks
9646     \null\vfil
9647     \vskip 60\p@
9648     \begin{center}%
9649       {\LARGE \@title \par}%
9650       \vskip 3em%
9651       {\large
9652         \lineskip .75em%
9653         \begin{tabular}[t]{c}%
9654           \@author
9655           \end{tabular}\par}%
9656         \vskip 1.5em%
9657         {\large \@date \par}%           % Set date in \large size.
9658     \end{center}\par
9659     \@thanks
9660     \vfil\null
9661   \end{titlepage}%
9662   \setcounter{footnote}{0}%
9663   \global\let\thanks\relax
9664   \global\let\LTRthanks\relax
9665   \global\let\RTLthanks\relax
9666   \global\let\maketitle\relax
9667   \global\let\@thanks\@empty
9668   \global\let\@author\@empty
9669   \global\let\@date\@empty
9670   \global\let\@title\@empty
9671   \global\let\title\relax
9672   \global\let\author\relax
9673   \global\let\date\relax
9674   \global\let\and\relax
9675 }
9676 \else
9677 \renewcommand\maketitle{\par
9678   \begingroup
9679     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9680     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9681     \long\def\@makefntext##1{\parindent 1em\noindent
9682       \hb@xt@1.8em{%
9683         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9684     \if@twocolumn
9685       \ifnum \col@number=\@ne
9686         \@maketitle
9687       \else
9688         \twocolumn[\@maketitle]%
9689       \fi

```



```

9690 \else
9691 \newpage
9692 \global\@topnum\z@ % Prevents figures from going at top of page.
9693 \@maketitle
9694 \fi
9695 \thispagestyle{plain}\@thanks
9696 \endgroup
9697 \setcounter{footnote}{0}%
9698 \global\let\thanks\relax
9699 \global\let\LTRthanks\relax
9700 \global\let\RTLthanks\relax
9701 \global\let\maketitle\relax
9702 \global\let\@maketitle\relax
9703 \global\let\@thanks\@empty
9704 \global\let\@author\@empty
9705 \global\let\@date\@empty
9706 \global\let\@title\@empty
9707 \global\let\title\relax
9708 \global\let\author\relax
9709 \global\let\date\relax
9710 \global\let\and\relax
9711 }
9712 \def\@maketitle{%
9713 \newpage
9714 \null
9715 \vskip 2em%
9716 \begin{center}%
9717 \let \footnote \thanks
9718 \let \LTRfootnote \LTRthanks
9719 \let \RTLfootnote \RTLthanks
9720 {\LARGE \@title \par}%
9721 \vskip 1.5em%
9722 {\large
9723 \lineskip .5em%
9724 \begin{tabular}[t]{c}%
9725 \@author
9726 \end{tabular}\par}%
9727 \vskip 1em%
9728 {\large \@date}%
9729 \end{center}%
9730 \par
9731 \vskip 1.5em}
9732 \fi}
9733 \IfPackageLoadedF{tocloft}{%
9734 \renewcommand*\l@part[2]{%
9735 \ifnum \c@tocdepth >-2\relax
9736 \addpenalty{-\@highpenalty}%
9737 \addvspace{2.25em \@plus\p}%
9738 \setlength\@tempdima{3em}%
9739 \begingroup
9740 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9741 \parfillskip -\@pnumwidth
9742 {\leavevmode
9743 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

9744     \nobreak
9745     \global\@nobreaktrue
9746     \everypar{\global\@nobreakfalse\everypar{}}%
9747 \endgroup
9748 \fi}
9749 \renewcommand*\l@chapter[2]{%
9750 \ifnum \c@tocdepth >\m@ne
9751   \addpenalty{-\@highpenalty}%
9752   \vskip 1.0em \@plus\p@
9753   \setlength\@tempdima{1.5em}%
9754   \begingroup
9755     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9756     \parfillskip -\@pnumwidth
9757     \leavevmode \bfseries
9758     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9759     \hskip -\if@RTL\rightskip\else\leftskip\fi
9760     #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
9761     \penalty\@highpenalty
9762   \endgroup
9763 \fi}
9764 }
9765 \renewcommand\left@footnoterule{%
9766 \kern-3\p@
9767 \hrule\@width.4\columnwidth
9768 \kern2.6\p@}
9769 \renewcommand\right@footnoterule{%
9770 \kern-3\p@
9771 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9772 \kern2.6\p@}
9773 \renewcommand\theequation
9774 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9775 \renewcommand \thefigure
9776 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9777 \renewcommand \thetable
9778 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9779 \renewcommand \thechapter {\@arabic\c@chapter}
9780 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9781 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9782 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9783 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9784 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9785 \def\@makechapterhead#1{%
9786 \vspace*{50\p@}%
9787 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9788 \ifnum \c@secnumdepth >\m@ne
9789 \if@mainmatter
9790 \huge\bfseries \@chapapp\space \thechapter
9791 \par\nobreak
9792 \vskip 20\p@
9793 \fi
9794 \fi
9795 \interlinepenalty\@M
9796 \Huge \bfseries #1\par\nobreak
9797 \vskip 40\p@

```



```

9798 }}
9799 \def\@makeschapterhead#1{%
9800   \vspace*{50\p@}%
9801   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9802     \normalfont
9803     \interlinepenalty\@M
9804     \Huge \bfseries #1\par\nobreak
9805     \vskip 40\p@
9806   }}
9807 \renewcommand\backmatter{%
9808   \if@openright
9809     \cleardoublepage
9810   \else
9811     \clearpage
9812   \fi
9813   \@mainmatterfalse}
9814 \renewenvironment{thebibliography}[1]
9815   {\chapter*{\bibname}%
9816     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9817     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9818     \bidi@thebibliography@font@hook%
9819     \list{\@biblabel{\@arabic\c@enumiv}}%
9820       {\settowidth\labelwidth{\@biblabel{#1}}%
9821         \leftmargin\labelwidth
9822         \advance\leftmargin\labelsep
9823         \@openbib@code
9824         \usecounter{enumiv}%
9825         \let\p@enumiv\@empty
9826         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9827     \sloppy
9828     \clubpenalty4000
9829     \@clubpenalty \clubpenalty
9830     \widowpenalty4000%
9831     \sfcode`.\@m}
9832   {\def\@noitemerr
9833     {\@latex@warning{Empty `thebibliography' environment}}%
9834     \endlist}

```

66 File breqn-xetex-bidi.def

```

9835 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9836 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9837   \everydisplay\expandafter{\the\everydisplay \display@setup}%
9838   \if@noskipsec \leavevmode \fi
9839   \if@inlabel \leavevmode \global\@inlabelfalse \fi
9840   \if\eq@group\else\eq@prelim\fi
9841   \setkeys{breqn}{#1}%
9842   \the\eqstyle
9843   \eq@setnumber
9844   \begingroup
9845   \eq@setup@a
9846   \eq@startup
9847 }
9848 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%

```



```

9849 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9850 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9851 \global\let\GRP@label\@empty
9852 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9853 \global\grp@linewidth\z@\global\grp@wdNum\z@
9854 \global\let\grp@eqs@numbered\@False
9855 \global\let\grp@aligned\@True
9856 \global\let\grp@shiftnumber\@False
9857 \eq@prelim
9858 \setkeys{breqn}{#1}%
9859 \if\grp@hasNumber \grp@setnumber \fi
9860 }
9861 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9862 \let\display@setup\dseries@display@setup
9863 % Question: should this be the default for dseries???
9864 \global\eq@wdCond\z@
9865 \@dmath[layout={M},#1]%
9866 \mathsurround\z@\@math \penalty\@Mi
9867 \let\endmath\ends@math
9868 \def\premath{%
9869 \ifdim\lastskip<.3em \unskip
9870 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9871 }%
9872 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9873 \ignorespaces
9874 }
9875 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9876 \renewenvironment{dsuspend}{%
9877 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9878 \parshape 1 \displayindent \displaywidth\relax
9879 \hsize=\columnwidth \noindent\ignorespaces
9880 }{%
9881 \par\egroup
9882 \global\setbox\GRP@box\vbox{%
9883 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9884 \unvbox\GRP@box
9885 }%
9886 \global\GRP@queue\@xp{\the\GRP@queue
9887 \@elt{\let\eq@isIntertext\@True}}%
9888 }%
9889 }

```

67 File cals-xetex-bidi.def

```

9890 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9891 \renewcommand\cals@setup@alignment[1]{%
9892 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9893 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9894 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9895 }
9896 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9897 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9898 \if@RTLtab\cals@activate@rtl\fi
9899 \let\cals@thead@tokens=\relax

```




```

9900 \let\cals@tfoot@tokens=\relax
9901 \let\cals@tbreak@tokens=\relax
9902 \cals@tfoot@height=0pt \relax
9903 \let\cals@last@context=n%
9904 \let\cals@current@context=b%
9905 \parindent=0pt \relax%
9906 \cals@setup@alignment{#1}%
9907 \cals@setpadding{Ag}\cals@setcellprevdepth{A1}\cals@set@tohsize%
9908 %% Alignment inside is independent on center/flushright outside
9909 \parfillskip=0pt plus1fil\relax
9910 \let\cals@borderL=\relax
9911 \let\cals@borderR=\relax
9912 \let\cals@borderT=\relax
9913 \let\cals@borderB=\relax
9914 \setbox\cals@backup@row=\box\voidb@x\relax
9915 \cals@AtBeginTable
9916 }{% End of the table
9917 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9918 \renewcommand\alignL{%
9919 \if@RTLtab
9920 \cals@vfillAdd\cals@paddingL
9921 \else
9922 \cals@vfillDrop\cals@paddingL
9923 \fi
9924 \cals@vfillDrop\cals@paddingR}
9925 \renewcommand\alignR{%
9926 \if@RTLtab
9927 \cals@vfillDrop\cals@paddingL
9928 \else
9929 \cals@vfillAdd\cals@paddingL
9930 \fi
9931 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9932 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9933 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9934 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9935 \renewcommand*\caption@par{%
9936 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9937 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9938 \def\CT@setup{%
9939 \@tempdimb\col@sep
9940 \@tempdimc\col@sep
9941 \def\CT@color{%
9942 \global\let\CT@do@color\CT@do@color
9943 \bidicolor}}
9944 \def\@classz{\@classx

```



```

9945 \@tempcnta \count@
9946 \prepnext@tok
9947 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9948 \@addtopreamble{\if@RTLtab\beginL\fi%
9949 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9950 \ifcase \@chnum
9951 \hskip\stretch{.5}\kern\z@
9952 \d@llarbegin
9953 \insert@column
9954 \d@llarend\hskip\stretch{.5}\or
9955 \d@llarbegin \insert@column \d@llarend \hfill \or
9956 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9957 $\vcenter
9958 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9959 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9960 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9961 \fi
9962 \if@RTLtab\endR\fi\egroup\egroup
9963 \begingroup
9964 \CT@setup
9965 \CT@column@color
9966 \CT@row@color
9967 \CT@cell@color
9968 \CT@do@color
9969 \endgroup
9970 \@tempdima\ht\z@
9971 \advance\@tempdima\minrowclearance
9972 \vrule\@height\@tempdima\@width\z@
9973 \unhbox\z@\if@RTLtab\endL\fi}%
9974 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

9975 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9976 \long\def\color@b@x#1#2#3{%
9977 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9978 \setbox\z@\hbox{\kern\fbboxsep\setcolor\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9979 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9980 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9981 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9982 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9983 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9984 \DeclareRobustCommand\color{%
9985 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
9986 \def\@declaredcolor#1{%
9987 \@ifundefined{\string\color @#1}%
9988 {\c@lor@error{`#1'}}%
9989 {\expandafter\let\expandafter\current@color
9990 \csname\string\color @#1\endcsname
9991 \set@color}%
9992 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9993 \def\@undeclaredcolor[#1]#2{%
9994 \@ifundefined{color@#1}%
9995 {\c@lor@error{model `#1'}}%

```



```

9996     {\csname color@#1\endcsname\current@color{#2}%
9997       \set@color}%
9998   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9999 \DeclareRobustCommand\bidicolor{%
10000   \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
10001 \def\@bidiundeclaredcolor[#1]#2{%
10002   \@ifundefined{color@#1}%
10003     {\c@lor@error{model `#1'}}%
10004     {\csname color@#1\endcsname\current@color{#2}%
10005       \set@color}%
10006   \ignorespaces}
10007 \def\@bidideclaredcolor#1{%
10008   \@ifundefined{\string\color @#1}%
10009     {\c@lor@error{`#1'}}%
10010     {\expandafter\let\expandafter\current@color
10011       \csname\string\color @#1\endcsname
10012       \set@color}%
10013   \ignorespaces}
10014 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10015 \def\color@fbox#1#2#3{%
10016   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10017 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

72 File combine-xetex-bidi.def

```

10018 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10019 \renewcommand{\c@ll@chapsecii}[2]{%
10020   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10021   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10022   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10023 }
10024 \renewcommand{\c@ll@chapseci}{%
10025   \setlength\@tempdima{0em}%
10026   \begingroup
10027     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10028     \parfillskip -\@pnumwidth
10029     \leavevmode
10030 }
10031 \renewenvironment{tocindent}[1]{%
10032   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10033 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10034 \IfClassLoadedT{memoir}{\endinput}
10035 \RequirePackage{graphicx}
10036 \renewcommand*{\CROP@ulc}{%
10037   \if@RTLmain%
10038     \begin{picture}(0,0)
10039       \unitlength\p@\thinline
10040       \put(-40,0){\circle{10}}
10041       \put(-30,-5){\line(0,1){10}}
10042       \put(-35,0){\line(1,0){30}}
10043       \put(-10,30){\circle{10}}

```



```

10044     \put(-5,30){\line(1,0){10}}
10045     \put(0,35){\line(0,-1){30}}
10046   \end{picture}%
10047   \else%
10048   \begin{picture}(0,0)
10049     \unitlength\p@\thinlines
10050     \put(-30,0){\circle{10}}
10051     \put(-30,-5){\line(0,1){10}}
10052     \put(-35,0){\line(1,0){30}}
10053     \put(0,30){\circle{10}}
10054     \put(-5,30){\line(1,0){10}}
10055     \put(0,35){\line(0,-1){30}}
10056   \end{picture}%
10057   \fi%
10058 }
10059 \renewcommand*\CROP@urc{%
10060   \if@RTLmain%
10061     \begin{picture}(0,0)
10062       \unitlength\p@\thinlines
10063       \put(20,0){\circle{10}}
10064       \put(30,-5){\line(0,1){10}}
10065       \put(35,0){\line(-1,0){30}}
10066       \put(-10,30){\circle{10}}
10067       \put(-5,30){\line(1,0){10}}
10068       \put(0,35){\line(0,-1){30}}
10069     \end{picture}%
10070   \else%
10071     \begin{picture}(0,0)
10072       \unitlength\p@\thinlines
10073       \put(30,0){\circle{10}}
10074       \put(30,-5){\line(0,1){10}}
10075       \put(35,0){\line(-1,0){30}}
10076       \put(0,30){\circle{10}}
10077       \put(-5,30){\line(1,0){10}}
10078       \put(0,35){\line(0,-1){30}}
10079     \end{picture}%
10080   \fi%
10081 }
10082 \renewcommand*\CROP@llc{%
10083   \if@RTLmain%
10084     \begin{picture}(0,0)
10085       \unitlength\p@\thinlines
10086       \put(-40,0){\circle{10}}
10087       \put(-30,-5){\line(0,1){10}}
10088       \put(-35,0){\line(1,0){30}}
10089       \put(-10,-30){\circle{10}}
10090       \put(-5,-30){\line(1,0){10}}
10091       \put(0,-35){\line(0,1){30}}
10092     \end{picture}%
10093   \else%
10094     \begin{picture}(0,0)
10095       \unitlength\p@\thinlines
10096       \put(-30,0){\circle{10}}
10097       \put(-30,-5){\line(0,1){10}}

```



```

10098     \put(-35,0){\line(1,0){30}}
10099     \put(0,-30){\circle{10}}
10100     \put(-5,-30){\line(1,0){10}}
10101     \put(0,-35){\line(0,1){30}}
10102 \end{picture}%
10103 \fi%
10104 }
10105 \renewcommand*\CROP@lrc{%
10106   \if@RTLmain%
10107     \begin{picture}(0,0)
10108       \unitlength\p@\thinlines
10109       \put(20,0){\circle{10}}
10110       \put(30,-5){\line(0,1){10}}
10111       \put(35,0){\line(-1,0){30}}
10112       \put(-10,-30){\circle{10}}
10113       \put(-5,-30){\line(1,0){10}}
10114       \put(0,-35){\line(0,1){30}}
10115     \end{picture}%
10116   \else%
10117     \begin{picture}(0,0)
10118       \unitlength\p@\thinlines
10119       \put(30,0){\circle{10}}
10120       \put(30,-5){\line(0,1){10}}
10121       \put(35,0){\line(-1,0){30}}
10122       \put(0,-30){\circle{10}}
10123       \put(-5,-30){\line(1,0){10}}
10124       \put(0,-35){\line(0,1){30}}
10125     \end{picture}%
10126   \fi%
10127 }
10128 \@ifpackagewith{crop}{cam}{%
10129 \CROP@execopt{cam}%
10130 }{}

```

74 File cutwin-xetex-bidi.def

```

10131 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10132 \renewcommand*{\c@twcompctr}[2]{%
10133   \def\c@twfirst{1}
10134   \loop\advance\c@twwinlines\m@ne
10135   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10136   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10137   \c@twprune{\c@twslicea}{\c@twlftside}%
10138   \c@twprune{\c@twsliceb}{\c@twrtside}%
10139   \ifnum\c@twfirst=\@ne
10140     \setbox#2=\vbox{\unvbox#2\hbox
10141       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10142     \else
10143       \setbox#2=\vbox{\unvbox#2\hbox
10144       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\
10145   \fi
10146   \def\c@twfirst{2}
10147   \ifnum\c@twwinlines>\z@\repeat}
10148 \renewcommand*{\c@twcompodctr}[2]{%

```



```

10149 \def\c@twrounds{1}
10150 \def\c@twfirst{1}
10151 \@for\c@twlspec:=\c@twb\do{%
10152   \ifnum\c@twrounds=1
10153     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10154     \c@twprune{\c@twslicea}{\c@twlspec}%
10155     \def\c@twrounds{2}
10156   \else
10157     \setbox\c@twliceb=\vsplit#1 to\baselineskip % second of pair
10158     \c@twprune{\c@twliceb}{\c@twlspec}%
10159     \ifnum\c@twfirst=1
10160       \setbox#2=\vbox{\unvbox#2\hbox
10161         to\hsize{\ifRTL\box\c@twliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
10162         \def\c@twfirst{2}
10163       \else
10164         \setbox#2=\vbox{\unvbox#2\hbox
10165           to\hsize{\ifRTL\box\c@twliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twlicea\el
10166         \fi
10167     \def\c@twrounds{1}
10168   \fi}}

```

75 File cuted-xetex-bidi.def

```

10169 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10170
10171 \def\RTL@outputdblcol{%
10172   \if@firstcolumn
10173     \global\@firstcolumnfalse
10174     \global\setbox\@leftcolumn\copy\@outputbox
10175     \splitmaxdepth\maxdimen
10176     \vbadness\maxdimen
10177     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10178     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10179     \toks@\expandafter{\topmark}%
10180     \xdef\@firstcoltopmark{\the\toks@}%
10181     \toks@\expandafter{\splitfirstmark}%
10182     \xdef\@firstcolfirstmark{\the\toks@}%
10183     \ifx\@firstcolfirstmark\@empty
10184       \global\let\@setmarks\relax
10185     \else
10186       \gdef\@setmarks{%
10187         \let\firstmark\@firstcolfirstmark
10188         \let\topmark\@firstcoltopmark}%
10189     \fi
10190   \else
10191     \global\@firstcolumntrue
10192     \setbox\@outputbox\vbox{%
10193       \hb@xt@\textwidth{%
10194         \hskip \columnwidth
10195         \hfil
10196         {\normalcolor\vrule \@width\columnseprule}%
10197         \hfil
10198         \hb@xt@\columnwidth{%
10199           \bidi@firstcolumn@status@write%

```



```

10200     \box\@leftcolumn \hss}%
10201     \hskip -\textwidth
10202     \hb@xt@\columnwidth{%
10203     \bidi@lastcolumn@status@write%
10204     \box\@outputbox \hss}%
10205     \hskip \columnsep
10206     \hskip \columnwidth }}%
10207 \ifvoid\hold@viper
10208 \else
10209     \setbox\@outputbox \vbox to\textheight{%
10210         \box\hold@viper
10211         \box\@outputbox
10212         \vss
10213         }%
10214 \fi
10215 \@combinedblfloats
10216 \setmarks
10217 \@outputpage
10218 \begingroup
10219 \@dblfloatplacement
10220 \@startdblcolumn
10221 \@whilesw\if@fcolmade \fi{\@outputpage
10222 \@startdblcolumn}%
10223 \ifvoid\@viper
10224 \else
10225     \global\setbox\@viper\vbox{%
10226         \vskip-\stripsep
10227         \unvbox\@viper
10228         }%
10229     \@viperoutput
10230 \fi
10231 \endgroup
10232 \fi}%
10233
10234 \def\LTR@outputdblcol{%
10235 \if@firstcolumn
10236     \global\@firstcolumnfalse
10237     \global\setbox\@leftcolumn\copy\@outputbox
10238     \splitmaxdepth\maxdimen
10239     \vbadness\maxdimen
10240     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10241     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10242     \toks@\expandafter{\topmark}%
10243     \xdef\@firstcoltopmark{\the\toks@}%
10244     \toks@\expandafter{\splitfirstmark}%
10245     \xdef\@firstcolfirstmark{\the\toks@}%
10246     \ifx\@firstcolfirstmark\@empty
10247         \global\let\@setmarks\relax
10248     \else
10249         \gdef\@setmarks{%
10250             \let\firstmark\@firstcolfirstmark
10251             \let\topmark\@firstcoltopmark}%
10252 \fi
10253 \else

```



```

10254 \global\@firstcolumntrue
10255 \setbox\@outputbox\vbox{%
10256 \hb@xt@\textwidth{%
10257 \hb@xt@\columnwidth{%
10258 \bidi@firstcolumn@status@write%
10259 \box\@leftcolumn \hss}%
10260 \hfil
10261 {\normalcolor\vrule \@width\columnseprule}%
10262 \hfil
10263 \hb@xt@\columnwidth{%
10264 \bidi@lastcolumn@status@write%
10265 \box\@outputbox \hss}}}%
10266 \ifvoid\hold@viper
10267 \else
10268 \setbox\@outputbox \vbox to\textheight{%
10269 \box\hold@viper
10270 \box\@outputbox
10271 \vss
10272 }%
10273 \fi
10274 \@combinedblfloats
10275 \@setmarks
10276 \@outputpage
10277 \beginingroup
10278 \@dblfloatplacement
10279 \@startdblcolumn
10280 \@whilesw\if@colmade \fi{\@outputpage
10281 \@startdblcolumn}%
10282 \ifvoid\@viper
10283 \else
10284 \global\setbox\@viper\vbox{%
10285 \vskip-\stripsep
10286 \unvbox\@viper
10287 }%
10288 \@viperoutput
10289 \fi
10290 \endgroup
10291 \fi}%
10292
10293 \def\@addviper{%
10294 \insertfalse
10295 \def\var@thecol@num{2}%
10296 \if@firstcolumn
10297 \def\var@thecol@num{1}%
10298 \@reqcolroom=.5\@pageht
10299 \ht@viper=\@reqcolroom
10300 \advance\@reqcolroom by\ht\@viper
10301 \advance\@reqcolroom by\stripsep
10302 \else
10303 \@reqcolroom=\@colht
10304 \advance\@reqcolroom by\@pageht
10305 \ht@viper.5\@reqcolroom
10306 \@reqcolroom=\ht@viper
10307 \advance\@reqcolroom by\ht\@viper

```




```

10308 \advance\@reqcolroom by\stripsep
10309 \global\setbox\@holdpg\vbox{%
10310 \setbox\cuted@@tempbox@a\vbox{%
10311 \aftergroup\unvbox
10312 \unvcopy\@leftcolumn
10313 \unskip\unkern\unpenalty
10314 \setbox\@tempboxa\lastbox
10315 \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10316 %% keeps lastbox
10317 \aftergroup\@leftcolumn
10318 \else
10319 %% removes lastbox
10320 \aftergroup\cuted@@tempbox@a
10321 \fi
10322 }%
10323 \unskip\unkern\unpenalty
10324 \on@stripcols@break
10325 \the\At@ViperColsBreak
10326 \unvbox\@holdpg
10327 }%
10328 \global\At@ViperColsBreak{}%
10329 \ht@viper=.5\ht\@holdpg
10330 \ifdim\ht@viper>\@colht
10331 \ht@viper=\@colht
10332 \fi
10333 \fi
10334 %%
10335 %% calculations for breaking
10336 %%
10337 \ifvoid\hold@viper
10338 \ht@hold@viper=\z@
10339 \else
10340 \ht@hold@viper=\ht\hold@viper
10341 \fi
10342 \cuted@@tempdim@b\ht@viper
10343 \set@split@topskip@to\topskip
10344 \loop
10345 \xdef\saved@tempdim@b{\the\cuted@@tempdim@b}%
10346 \setbox\cuted@@varbox@a\copy\@holdpg
10347 \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10348 %% set leftcolumn boxes
10349 \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10350 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10351 \xdef\var@@leftcolumn@badness{\the\badness}%
10352 %% set rightcolumn boxes
10353 \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10354 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10355 \xdef\var@@rightcolumn@badness{\the\badness}%
10356 %% analyzing split goodness
10357 \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10358 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10359 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10360 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10361 \cuted@@wlog@debug{CUTED [-----]}%

```



```

10362     ^^JLeft: \the\ht\cuted@@tempbox@c
10363     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10364     ^^JRight: \the\ht\cuted@@varbox@c
10365     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10366     ^^JSplit: \the\cuted@@tempdim@b
10367     ^^JExtra height: \the\cuted@@tempdim@spread
10368     }%
10369     \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10370     \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10371     \cuted@@tempdim@spread=\z@
10372     \fi
10373     \fi
10374     \ifdim\cuted@@tempdim@spread<\z@
10375     \if@left@column@spread
10376     \if@right@column@shrink
10377     \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10378     \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@sp
10379     \else
10380     \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\rela
10381     \fi
10382     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox
10383     \ifnum\badness<\cuted@@column@badness
10384     \cuted@@tempdim@b=\cuted@@tempdim@a
10385     \cuted@@tempdim@spread=\z@
10386     \fi
10387     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10388     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@
10389     \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10390     \else
10391     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10392     \unvcopy\cuted@@tempbox@c
10393     }%
10394     \ifnum\badness<\cuted@@column@badness
10395     \@tempdimb=\ht\cuted@@varbox@c
10396     \cuted@@tempdim@spread=\z@
10397     \fi
10398     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10399     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10400     \unvcopy\cuted@@varbox@c
10401     }%
10402     \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10403     \fi
10404     \else
10405     \if@right@column@shrink
10406     \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10407     \else
10408     \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10409     \cuted@@tempdim@spread=\z@
10410     \fi
10411     \fi
10412     \fi
10413     \else
10414     \ifdim\cuted@@tempdim@spread>\z@
10415     \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht

```



```

10416         \cuted@@tempdim@b=\@colht
10417         \cuted@@tempdim@spread=\z@
10418         \fi
10419     \fi
10420 \fi
10421 \ifdim\cuted@@tempdim@spread<\z@
10422     \advance\cuted@@tempdim@b 1\p@
10423 \repeat
10424 \wlog{CUTED [- LAST -]}%
10425     ^^JExtra skip:\the\cuted@@tempdim@spread
10426     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10427     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10428     ^^JSplit:\saved@tempdimb
10429     ^^JOutput:\the\cuted@@tempdim@b
10430     ^^JPageshrink:\the\pageshrink
10431     ^^JPagestretch:\the\pagestretch
10432     ^^J@colht:\the\colht
10433 }%
10434 %%
10435 %% final construction of the cuted page above strip
10436 %%
10437 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10438 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10439     \cuted@@tempdim@a=\dimexpr
10440         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10441     \relax
10442     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10443     \unvbox\cuted@@tempbox@c
10444     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10445     \else
10446         \vskip-\cuted@@tempdim@spread
10447     \fi
10448     \prevdepth\z@
10449     \hrule\@height\cuted@@page@rule width\textwidth
10450     \vskip-\cuted@@page@rule
10451     \ifdim\cuted@@tempdim@a>\z@
10452         \if@left@column@spread
10453         \else
10454             \vss
10455         \fi
10456     \else
10457         \ifdim\cuted@@tempdim@a<\z@
10458             \if@left@column@shrink
10459             \else
10460                 \vss
10461             \fi
10462         \fi
10463     \fi
10464 }%
10465 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10466     ^^JCUTED [leftcolumn badness]: \number\badness
10467 }%
10468 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10469     \cuted@@tempdim@a=\dimexpr

```



```

10470         \cuted@@tempdim@b-\ht\@holdpg
10471         \relax
10472     \unvbox\@holdpg
10473     \ifdim\cuted@@tempdim@a>\z@
10474         \if@right@column@spread
10475         \else
10476             \vss
10477         \fi
10478     \else
10479         \ifdim\cuted@@tempdim@a<\z@
10480             \if@right@column@shrink
10481             \else
10482                 \vss
10483             \fi
10484         \fi
10485     \fi
10486 }%
10487 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10488 \setbox\cuted@@tempbox@var\vbox{%
10489     \hb@xt@\textwidth{%
10490         \ifRTLmain
10491             \hskip \columnwidth
10492             \hfil
10493             {\normalcolor\vrule \@width\columnseprule}%
10494             \hfil
10495             \hb@xt@\columnwidth{%
10496                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10497                 \hss
10498             }%
10499             \hskip -\textwidth
10500             \hb@xt@\columnwidth{%
10501                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10502                 \hss
10503             }%
10504             \hskip \columnsep
10505             \hskip \columnwidth
10506         \else
10507             \hb@xt@\columnwidth{%
10508                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10509                 \hss
10510             }%
10511             \hfil
10512             {\normalcolor\vrule \@width\columnseprule}%
10513             \hfil
10514             \hb@xt@\columnwidth{%
10515                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10516                 \hss
10517             }%
10518         \fi
10519     }%
10520 }%
10521 %%
10522 %% finalize cuted page
10523 %%

```



```

10524 \ifvoid\hold@viper
10525   \global\setbox\hold@viper\vbox{%
10526     \unvbox\cuted@tempbox@var
10527     \penalty\interlinepenalty
10528     \vskip\stripsep
10529     \the\preCutedStrip
10530     \ifnum\outputpenalty<-\@Mii
10531       \vskip -\parskip
10532     \fi
10533     \outputpenalty\z@
10534   }%
10535 \else
10536   \global\setbox\hold@viper\vbox{%
10537     \unvbox\hold@viper
10538     \cuted@tempbox@var
10539     \penalty\interlinepenalty
10540     \vskip\stripsep
10541     \the\preCutedStrip
10542     \ifnum\outputpenalty<-\@Mii
10543       \vskip -\parskip
10544     \fi
10545     \outputpenalty\z@
10546   }%
10547 \fi
10548 \ifdim\@colht>\@reqcolroom
10549   \global\setbox\hold@viper\vbox{%
10550     \unvbox\hold@viper
10551     \box\@viper
10552     \penalty\interlinepenalty
10553     \the\postCutedStrip
10554     \vskip\stripsep
10555     \ifnum\outputpenalty<-\@Mii
10556       \vskip -\parskip
10557     \fi
10558     \outputpenalty\z@
10559   }%
10560 \inserttrue
10561 \global\@firstcolumntrue
10562 \advance\ht@hold@viper by-\ht\hold@viper
10563 \global\advance\@colht by\ht@hold@viper
10564 \ifdim\@colht<2.5\baselineskip
10565   \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10566     too tall on page \thepage (\var@thecol@num column)}%
10567   \@emptycol
10568   \if@firstcolumn
10569   \else
10570     \@emptycol
10571   \fi
10572   \global\@lastvipertrue
10573 \else
10574   \global\vsizel\@colht
10575   \global\@colroom\@colht
10576   \checkfloats\cuted@tempdim@a
10577   \ifdim\cuted@tempdim@a>\z@

```



```

10578         \global\advance\@colroom by-\cuted@tempdim@a
10579     \fi
10580     \ifdim\@colroom<\z@
10581         \global\@colroom1\p@
10582         \ifdim\cuted@tempdim@a>\@colht
10583             \@latex@warning@no@line{TOP and/or BOT FLOAT's
10584                 to large on \thepage (\var@thecol@num column)}%
10585         \fi
10586         \@emptycol
10587         \if@firstcolumn
10588         \else
10589             \@emptycol
10590         \fi
10591         \global\@lastvipertrue
10592     \fi
10593 \fi
10594 \fi
10595 \if@insert
10596 \else
10597     \advance\ht@hold@viper by-\ht\hold@viper
10598     \global\advance\@colht by\ht@hold@viper
10599     \global\setbox\hold@viper\vbox{%
10600         \unvbox\hold@viper
10601         \set@split@topskip@to{\z@ plus2\p@}%
10602         \vsplit\@viper to\@colht
10603         \vss
10604     }%
10605     \vbox{%
10606         \global\@firstcolumnfalse
10607         \newpage
10608     \fi
10609 }

```

76 File cvthemebidicasual.sty

```

10610 \NeedsTeXFormat{LaTeX2e}
10611 \ProvidesPackage{cvthemebidicasual}
10612 \DeclareOption{blue}{}
10613 \newif\if@colourorange\@colourorangefalse
10614 \DeclareOption{orange}{\@colourorange>true}
10615 \newif\if@colourgreen\@colourgreenfalse
10616 \DeclareOption{green}{\@colourgreentrue}
10617 \newif\if@colourred\@colourredfalse
10618 \DeclareOption{red}{\@colourredtrue}
10619 \newif\if@colourgrey\@colourgreyfalse
10620 \DeclareOption{grey}{\@colourgreytrue}
10621 \DeclareOption*{
10622     \PackageWarning{cvthemebidicasual}{Unknown option '\CurrentOption'}}
10623 \ExecuteOptions{colour}
10624 \ProcessOptions\relax
10625 \renewcommand*\listitemsymbol{\textbullet}
10626 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10627 \familynamecolour{808080}
10628 \firstnamecolour{A9A9A9}

```



```

10629 \quotecolour{696969}
10630 \addresscolour{696969}
10631 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10632 \sectiontitlecolour{1E90FF}
10633 \subsectioncolour{4682B4}
10634 \definecolor{rulecolour}{gray}{0.6}
10635 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10636 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10637 \if@colourorange
10638 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10639 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10640 \sectiontitlecolour{FF8C00}
10641 \subsectioncolour{FF8C00}
10642 \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10643 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10644 \if@colourgreen
10645 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10646 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10647 \sectiontitlecolour{008000}
10648 \subsectioncolour{008000}
10649 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10650 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10651 \if@coloured
10652 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10653 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10654 \sectiontitlecolour{FF0000}
10655 \subsectioncolour{FF0000}
10656 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10657 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10658 \if@colourgrey
10659 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10660 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10661 \sectiontitlecolour{808080}
10662 \subsectioncolour{808080}
10663 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10664 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10665 \renewcommand*{\ttdefault}{pcr}
10666 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10667 \renewcommand*{\familynamefont}{\firstnamefont}
10668 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10669 \renewcommand*{\quoteontextfont}{\large\slshape}
10670 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10671 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10672 \renewcommand*{\maketitle}{%
10673   {%
10674     \ifthenelse{\isundefined{\@photo}}{%
10675       {}%
10676       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}}%
10677     \hfill%
10678     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}
10679     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[-2.5em]}%
10680   \ifthenelse{\isundefined{\@quote}}{%
10681     {}%
10682     {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\}

```



```

10683 }%
10684 \newif\if@firstfooterelement\@firstfooterelementtrue
10685 \providecommand*\footersymbol{}
10686 \renewcommand*\footersymbol{}%
10687 \if@firstfooterelement%
10688 \else%
10689 { ~-\color{footersymbolcolor}\textbullet~~}\fi}
10690 \providecommand*\makefooter{}
10691 \renewcommand*\makefooter{}%
10692 \fancypagestyle{plain}{%
10693 \fancyfoot[c]{%
10694 \parbox{0.8\textwidth}{%
10695 \centering%
10696 \addressfont\@addresscolour%
10697 \ifthenelse{\isundefined{\@address}}{}{}%
10698 \addresssymbol~\@address\\%
10699 \@firstfooterelementfalse}%
10700 \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10701 \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10702 \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10703 \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
10704 \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
10705 }%
10706 \pagestyle{plain}}
10707 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10708 \NeedsTeXFormat{LaTeX2e}
10709 \ProvidesPackage{cvthemebidiclassic}
10710 \DeclareOption{blue}{}
10711 \newif\if@colourorange\@colourorangefalse
10712 \DeclareOption{orange}{\@colourorange>true}
10713 \newif\if@colourgreen\@colourgreenfalse
10714 \DeclareOption{green}{\@colourgreentrue}
10715 \newif\if@colourred\@colourredfalse
10716 \DeclareOption{red}{\@colourredtrue}
10717 \newif\if@colourgrey\@colourgreyfalse
10718 \DeclareOption{grey}{\@colourgreytrue}
10719 \DeclareOption*{
10720 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10721 \ExecuteOptions{colour}
10722 \ProcessOptions\relax
10723 \renewcommand*\listitemsymbol{\textbullet}
10724 \firstnamecolour{}
10725 \familynamecolour{}
10726 \titlecolour{808080}
10727 \quotecolour{696969}
10728 \addresscolour{696969}
10729 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10730 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10731 \sectiontitlecolour{1E90FF}
10732 \subsectioncolour{4682B4}
10733 \if@colourorange

```




```

10734 \addresscolour{FF8C00}
10735 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10736 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10737 \sectiontitlecolour{FF8C00}
10738 \subsectioncolour{FF8C00}\fi
10739 \if@colourgreen
10740 \addresscolour{008000}
10741 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10742 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10743 \sectiontitlecolour{008000}
10744 \subsectioncolour{008000}\fi
10745 \if@colouredred
10746 \addresscolour{FF0000}
10747 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10748 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10749 \sectiontitlecolour{FF0000}
10750 \subsectioncolour{FF0000}\fi
10751 \if@colourgrey
10752 \addresscolour{808080}
10753 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10754 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10755 \sectiontitlecolour{808080}
10756 \subsectioncolour{808080}\fi
10757 \renewcommand*{\ttdefault}{pcr}
10758 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10759 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10760 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10761 \renewcommand*{\familynamefont}{\firstnamefont}
10762 \renewcommand*{\quoteftfont}{\large\slshape}
10763 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10764 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10765 \newlength{\maketitlenamemaxwidth}
10766 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10767 \newlength{\maketitlenamefullwidth}
10768 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10769 \newlength{\maketitlenamewidth}
10770 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10771 \newlength{\maketitlepicturewidth}
10772 \setlength{\maketitlepicturewidth}{\@photowidth}
10773 \newlength{\maketitledetailwidth}
10774 \renewcommand*{\recomputethemelengths}{%
10775 \setlength{\maketitledetailwidth}{\textwidth}%
10776 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10777 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10778 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10779 \recomputethemelengths
10780 \newif\if@firstdetailselement\@firstdetailselementtrue
10781 \newcommand*{\maketitledetailsnewline}{
10782 \if@firstdetailselement%
10783 \@firstdetailselementfalse%
10784 \else%
10785 \\.2em\fi}
10786 \renewcommand*{\maketitle}{%
10787 % name and title

```



```

10788 \begin{minipage}[b]{\maketitlewidth}%
10789   \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10790   \ifthenelse{equal{\@title}{}}{\[1.25em]\titlestyle{\@title}}%
10791 \end{minipage}%
10792 % optional data
10793 \begin{minipage}[b]{\maketitledetailwidth}%
10794   \bidi@raggedleft\addressfont\addresscolour%
10795   \ifthenelse{\isundefined{\@address}}{\%
10796     \maketitledetailsnewline%
10797     \addresssymbol~\@address}%
10798   \ifthenelse{\isundefined{\@mobile}}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10799   \ifthenelse{\isundefined{\@phone}}{\maketitledetailsnewline\phonesymbol~\@phone}%
10800   \ifthenelse{\isundefined{\@fax}}{\maketitledetailsnewline\faxsymbol~\@fax}%
10801   \ifthenelse{\isundefined{\@email}}{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10802   \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\extrainfo}%
10803 \end{minipage}%
10804 % optional photo
10805 \ifthenelse{\isundefined{\@photo}}{
10806   }%
10807   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10808 % optional quote
10809 \ifthenelse{\isundefined{\@quote}}{
10810   }%
10811   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10812 }

```

78 File dblfnote-xetex-bidi.def

```

10813 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10814 \let\autofooterule\relax
10815 \let\rightfootnoterule\relax
10816 \let\leftfootnoterule\relax
10817 \let\textwidthfootnoterule\relax
10818 \let\LRfootnoterule\relax
10819 \def\footnoterule{\kern-3\p@
10820   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10821 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext}
10822 \let\@footnotetext\dfn@footnotetext}
10823 \long\def\dfn@LRfootnotetext#1{\setbox\dfn@boxa\vbox{
10824   \let\insert\dfn@gobble
10825   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10826   \def\@makefnmark{\smash{\dfn@makefnmark}}
10827   \dfn@latex@LRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10828   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10829   \ifdim\dfn@dima>\z@\else
10830     \dfn@dima1sp\relax
10831     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10832   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10833     \ifvoid\dfn@ins\else
10834       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10835     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10836   \setbox\dfn@boxa\copy\dfn@ins
10837   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10838   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima

```



```

10839     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10840     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10841     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10842 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\LTRfootnotetext
10843 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10844 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10845     \let\insert\dfn@gobble
10846     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10847     \def\@makefnmark{\smash{\dfn@makefnmark}}
10848     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10849     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10850     \ifdim\dfn@dima>z@\else
10851         \dfn@dima1sp\relax
10852         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10853     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10854         \ifvoid\dfn@ins\else
10855             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10856         \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10857     \setbox\dfn@boxa\copy\dfn@ins
10858     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10859     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10860     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10861     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10862     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10863 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\RTLfootnotetext
10864 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10865 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10866     \dfn@dima\ht\footins
10867     \@tempcnta\z@ \dfn@countins
10868     \@tempdima\z@ \let\@elt\dfn@elt@getht
10869     \dfn@list\@nil
10870     \ifdim\@tempdima=\z@\else
10871     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10872     \global\setbox\dfn@ins\box\dfn@ins
10873     \@tempswatruer
10874     \ifdfn@trysingle
10875         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10876         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10877         \advance\@tempdima-\skip\footins
10878         \advance\@tempdima-\ht\dfn@boxa
10879         \ifdim\@tempdima<\z@\else \@tempswafalse
10880             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10881                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10882     \if@tempswa
10883     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10884     \global\setbox\footins\vbox{\hbox{%
10885         \hskip \DFNcolumnwidth
10886         \hskip\DFNcolumnsep
10887         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10888             \unvbox\dfn@boxb\vss}\hss}
10889         \hskip -\textwidth
10890         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10891             \vbox to\@tempdima{
10892             \setbox\@tempboxa\vbox{\footnoterule}

```



```

10893             \ifdfn@ruleboth \unvbox\@tempboxa
10894             \else \@tempdima\ht\@tempboxa
10895                 \advance\@tempdima\dp\@tempboxa
10896                 \vskip\@tempdima
10897                 \prevdepth\dp\@tempboxa \fi
10898             \unvbox\dfn@boxa\vss}\fi\hss}
10899             \hskip \DFNcolumnsep
10900             \hskip \DFNcolumnwidth}}\fi\fi
10901 \global\dfn@fnht\z@
10902 \ifx\dfn@list\@empty\else
10903     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10904     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10905     \let\@elt\relax
10906     \ifdim\dfn@dimb>\z@
10907         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10908         \insert\footins{\floatingpenalty\@MM
10909             \vbox to\dfn@dimb{}}\fi
10910     \ifdim\dfn@fnht>\@tempdima
10911         \@tempdima \advance\@tempdima-\dfn@fnht
10912         \global\dfn@fnht\@tempdima
10913         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdima}}%
10914         \xdef\dfn@afteroutput{\insert\footins{
10915             \floatingpenalty\@MM
10916             \vbox to\number\@tempdima sp{}}}%
10917         \global\let\noexpand\dfn@afteroutput\relax}%
10918     \fi\fi
10919 \fi}%
10920 \let\footnoterule\relax \dfn@latex@makecol
10921 \let\footnoterule\dfn@footnoterule}
10922 \def\dfn@LTRmakecol{{\ifvoid\footins\else
10923     \dfn@dima\ht\footins
10924     \@tempcnta\z@ \dfn@countins
10925     \@tempdima\z@ \let\@elt\dfn@elt@getht
10926     \dfn@list\@nil
10927     \ifdim\@tempdima=\z@\else
10928     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10929     \global\setbox\dfn@ins\box\dfn@ins
10930     \@tempswatrue
10931     \ifdfn@trysingle
10932         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10933         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10934         \advance\@tempdima-\skip\footins
10935         \advance\@tempdima-\ht\dfn@boxa
10936         \ifdim\@tempdima<\z@\else \@tempswafalse
10937             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10938                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10939     \if@tempswa
10940     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10941     \global\setbox\footins\vbox{\hbox{%
10942         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10943             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10944         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10945             \vbox to\@tempdima{
10946             \setbox\@tempboxa\vbox{\footnoterule}

```



```

10947         \ifdfn@ruleboth \unvbox\@tempboxa
10948         \else \@tempdima\ht\@tempboxa
10949             \advance\@tempdima\dp\@tempboxa
10950             \vskip\@tempdima
10951             \prevdepth\dp\@tempboxa \fi
10952         \unvbox\dfn@boxa\vss}\fi\hss}}\fi\fi
10953     \global\dfn@fnht\z@
10954     \ifx\dfn@list\@empty\else
10955         \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10956         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10957         \let\@elt\relax
10958         \ifdim\dfn@dimb>\z@
10959             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10960             \insert\footins{\floatingpenalty\MM
10961                 \vbox to\dfn@dimb{}}\fi
10962         \ifdim\dfn@fnht>\@tempdima
10963             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10964             \global\dfn@fnht\@tempdima
10965             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10966             \xdef\dfn@afteroutput{\insert\footins{
10967                 \floatingpenalty\MM
10968                 \vbox to\number\@tempdimb sp{}}%
10969                 \global\let\noexpand\dfn@afteroutput\relax}%
10970         \fi\fi
10971     \fi}%
10972     \let\footnoterule\relax \dfn@latex@makecol
10973     \let\footnoterule\dfn@footnoterule}
10974 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10975 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10976 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10977 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

10978 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10979 \bidi@patchcmd{\diagbox@double}{%
10980     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10981 }{\bidi@@diagbox@double@ii}{-}{-}
10982 \bidi@patchcmd{\diagbox@double}{%
10983     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10984 }{\bidi@@diagbox@double@iii}{-}{-}
10985 \newcommand*{\bidi@@diagbox@double@ii}{%
10986     \if@RTL
10987     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}
10988     \else
10989     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10990     \fi
10991 }
10992 \newcommand*{\bidi@@diagbox@double@iii}{%
10993     \if@RTL
10994     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10995     \else
10996     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
10997     \fi

```



```

10998 }
10999 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11000   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11001 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11002 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11003   \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11004 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11005 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11006   \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11007 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11008 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11009   \ifRTL
11010     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}
11011   \else
11012     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11013   \fi}
11014 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11015   \ifRTL
11016     \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11017   \else
11018     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}
11019   \fi}
11020 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11021 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11022   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11023 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11024 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11025   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11026 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11027 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11028   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11029 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11030 \newcommand*\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11031   \ifRTL
11032     \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}
11033   \else
11034     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11035   \fi}
11036 }
11037 \newcommand*\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11038   \ifRTL
11039     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11040   \else
11041     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11042   \fi}
11043 }
11044 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11045 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11046   \diagbox@setlinecolor
11047   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11048 }{%
11049   {\diagbox@setlinecolor
11050   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11051 }{-}{-}

```



```

11052 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11053 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11054   \diagbox@setlinecolor
11055   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11056 }{%
11057   {\diagbox@setlinecolor
11058   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}}%
11059 }{}{}
11060 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11061 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11062   \diagbox@setlinecolor
11063   \Line(0,\yym)(\x,0)
11064   \Line(\xm,\y)(\x,0)%
11065 }{%
11066   {\diagbox@setlinecolor
11067   \Line(0,\yym)(\x,0)
11068   \Line(\xm,\y)(\x,0)}}%
11069 }{}{}
11070 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11071   \diagbox@setlinecolor
11072   \Line(0,0)(\xxm,\y)
11073   \Line(0,0)(\x,\yym)%
11074 }{%
11075   {\diagbox@setlinecolor
11076   \Line(0,0)(\xxm,\y)
11077   \Line(0,0)(\x,\yym)}}%
11078 }{}{}
11079 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11080   \diagbox@setlinecolor
11081   \Line(0,\ym)(\x,\y)
11082   \Line(\xm,0)(\x,\y)%
11083 }{%
11084   {\diagbox@setlinecolor
11085   \Line(0,\ym)(\x,\y)
11086   \Line(\xm,0)(\x,\y)}}%
11087 }{}{}
11088 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11089   \diagbox@setlinecolor
11090   \Line(0,\y)(\xxm,0)
11091   \Line(0,\y)(\x,\ym)%
11092 }{%
11093   {\diagbox@setlinecolor
11094   \Line(0,\y)(\xxm,0)
11095   \Line(0,\y)(\x,\ym)}}%
11096 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11097 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11098 \renewcommand\SetWatermarkText[1]{%
11099   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def



```

11100 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11101 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11102   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11103
11104 \ESO@isMEMOIR{%
11105   \renewcommand\AtTextUpperLeft[1]{%
11106     \begingroup
11107       \ifodd\c@page
11108         \if@RTLmain
11109           \ESO@tempdima=\paperwidth
11110           \advance\ESO@tempdima-\textwidth
11111           \advance\ESO@tempdima-\spinmargin
11112         \else
11113           \ESO@tempdima=\spinmargin
11114         \fi
11115       \else
11116         \if@RTLmain
11117           \ESO@tempdima=\spinmargin
11118         \else
11119           \ESO@tempdima=\paperwidth
11120           \advance\ESO@tempdima-\textwidth
11121           \advance\ESO@tempdima-\spinmargin
11122         \fi
11123       \fi
11124       \ESO@tempdimb=-\uppermargin
11125       \AtPageUpperLeft{%
11126         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11127       }%
11128     \endgroup
11129   }
11130 }{%
11131   \renewcommand\AtTextUpperLeft[1]{%
11132     \begingroup
11133       \ESO@tempdima=1in\relax
11134       \if@twoside
11135         \ifodd\c@page
11136           \if@RTLmain
11137             \advance\ESO@tempdima\evensidemargin
11138           \else
11139             \advance\ESO@tempdima\oddsidemargin
11140           \fi
11141         \else
11142           \if@RTLmain
11143             \advance\ESO@tempdima\oddsidemargin
11144           \else
11145             \advance\ESO@tempdima\evensidemargin
11146           \fi
11147         \fi
11148       \else
11149         \advance\ESO@tempdima\oddsidemargin
11150       \fi
11151       \ESO@tempdimb=-1in\relax
11152       \advance\ESO@tempdimb-\topmargin
11153       \advance\ESO@tempdimb-\headheight

```




```

11154     \advance\ESO@tempdimb-\headsep
11155     \AtPageUpperLeft{%
11156       \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11157     }%
11158   \endgroup
11159 }
11160 }

```

82 File empheq-xetex-bidi.def

```

11161 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11162 \MHInternalSyntaxOn
11163 \def\EQ_tag_plus_endmark:{%
11164   \iftagsleft@
11165     \gdef\maketag@@@##1{%
11166       \hfuzz\displaywidth
11167       \if@RTL\makebox[\widthof{##1}][r]{%
11168         \hbox to \displaywidth{\m@th\normalfont##1\hss
11169           \raisebox{-\dp\EQ_mathdisplay_box
11170             -\depthof{\EQ_outerbox:}}{
11171             {\PotEndMark{\hss}}}}
11172       \else\makebox[\widthof{##1}][l]{%
11173         \hbox to \displaywidth{\m@th\normalfont##1\hss
11174           \raisebox{-\dp\EQ_mathdisplay_box
11175             -\depthof{\EQ_outerbox:}}{
11176             {\PotEndMark{\hss}}}}\fi}%
11177   \MH_else:
11178     \gdef\maketag@@@##1{%
11179       \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11180         \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
11181         \MH_addtolength:dn \@tempdima
11182         {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11183         \setlength{\@tempdimb}
11184         {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11185         +\depthof{\EQ_innerbox:}}}}
11186       \MH_if_dim:w \@tempdima>\@tempdimb
11187         \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11188           -\@tempdima+\g_EQ_bottomrow_depth_dim}
11189         \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11190       \def\EQ_next:{\raisebox{\@tempdima}}%
11191     \MH_else:
11192     \def\EQ_next:{
11193       \raisebox{-\dp\EQ_mathdisplay_box
11194         -\depthof{\EQ_outerbox:}}}%
11195     \MH_fi:\EQ_next:}}}%
11196   \MH_fi:}
11197 \def\EQ_post_process:{%
11198   \EQ_initialize:
11199   \EQ_begin_equation:
11200   \MH_if_boolean:nT {outer_mult}{
11201     \setkeys{MT_options_name:}{
11202       firstline-afterskip=0pt,
11203       lastline-preskip=0pt,
11204       multlined-width=0pt,

```



```

11205 }
11206 \ifodd \l_EQ_alignmentmode_int
11207   \setkeys{\MT_options_name:}{multlined-pos=b}
11208 \MH_else:
11209   \setkeys{\MT_options_name:}{multlined-pos=t}
11210 \MH_fi:
11211   \g@addto@macro\EQ_complete_mathdisplay:{
11212     \begin{MTmultlined}\relax}
11213 }
11214 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11215 \MH_if_boolean:nT {outer_mult}{
11216   \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11217 }
11218 \EQ_end_equation:
11219 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11220 \savecounters@
11221 \EQ_typeset_tags:
11222 \edef\l_EQ_equation_fint{\number\c@equation}
11223 \restorecounters@
11224 \Hy@linkcounter=\EQ_hyperref_link_fint
11225 \settowidth\l_EQ_totalwidth_dim{%
11226   $\EQ_left_side:\EQ_innerbox:{$}\EQ_right_side:$}%
11227 \MH_if_boolean:nTF {outer_mult}
11228   { \def\EQ_next:{_mult} }
11229   { \def\EQ_next:{} }
11230 \@nameuse{EQ_modify_linewidth_
11231   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11232 \EQ_typeset_display:
11233 \@nameuse{EQ_find_displaywidth_
11234   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11235 \MH_addtolength:dn
11236   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11237 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11238   $\EQ_left_side:
11239   \EQ_innerbox:{%
11240     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11241     \makebox[\l_EQ_displaywidth_dim][c]
11242       {\usebox{\EQ_mathdisplay_box}}}%
11243   \MH_or:
11244     \makebox[\l_EQ_displaywidth_dim][c]
11245       {\usebox{\EQ_mathdisplay_box}}}%
11246   \MH_or:
11247     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11248       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11249         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11250           \kern-\@mathmargin
11251         \MH_fi:
11252       \MH_fi:
11253     \usebox{\EQ_mathdisplay_box}}%
11254   \else\makebox[\l_EQ_displaywidth_dim][l]{%
11255     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11256     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11257       \kern-\@mathmargin
11258     \MH_fi:

```



```

11259     \MH_fi:
11260     \usebox{\EQ_mathdisplay_box}}\fi%
11261 \MH_or:
11262   \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11263     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11264     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11265     \kern-\@mathmargin
11266     \MH_fi:
11267     \MH_fi:
11268     \usebox{\EQ_mathdisplay_box}}
11269   \else\makebox[\l_EQ_displaywidth_dim][l]{%
11270     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11271     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11272     \kern-\@mathmargin
11273     \MH_fi:
11274     \MH_fi:
11275     \usebox{\EQ_mathdisplay_box}}\fi%
11276   \MH_fi:}%
11277   \EQ_right_side:$}%
11278 \begin{AmSequation*}
11279 \@nameuse{EQ_place_display_
11280   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11281 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11282 \MH_set_boolean_T:n {show_manual_tags}
11283 \MH_if_case:w \l_EQ_alignmentmode_int
11284 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11285 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11286 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11287 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11288 \MH_fi:
11289 \MH_fi:
11290 \end{AmSequation*}
11291 \global\c@equation=\l_EQ_equation_fint\relax
11292 }
11293 \AtBeginDocument{%
11294 \@ifpackageloaded{fancybox}{%
11295   \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11296   {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11297   \renewcommand*\shadowbox{%
11298     \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11299       \VerbBox\EQ_shadowbox:n}
11300     {\MH_set_boolean_F:n {shadowbox_star}
11301       \VerbBox\EQ_shadowbox:n}}
11302 \def\EQ_shadowbox:n #1{%
11303   \sbox{\z@}{\fbox{#1}}%
11304   \MH_if_boolean:nTF {shadowbox_star}{
11305     \MH_setlength:dn \@tempdima{\z@}%
11306   }{
11307     \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11308   }
11309   \raisebox{\@tempdima}{%
11310     \if@RTL\makebox[\z@][r]{%
11311       \kern\shadowsize \textcolor{shadowcolor}{%
11312         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%

```



```

11313     }%
11314     \else\makebox[\z@][l]{%
11315         \kern\shadowsize \textcolor{shadowcolor}{%
11316             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11317     }\fi%
11318     \usebox\z@\textcolor{shadowcolor}{%
11319         \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11320 }{}%
11321 }
11322 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11323 \ProvidesFile{extarticle-xetex-bidi.def}[2025/01/05 v0.5 bidi adaptations for extarticle cla
11324 \renewcommand*\l@section[2]{%
11325     \ifnum \c@tocdepth >\z@
11326         \addpenalty\@secpenalty
11327         \addvspace{1.0em \@plus\p@}%
11328         \setlength\@tempdima{1.5em}%
11329         \begingroup
11330             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11331             \parfillskip -\@pnumwidth
11332             \leavevmode \bfseries
11333             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11334             \hskip -\if@RTL\rightskip\else\leftskip\fi
11335             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11336         \endgroup
11337     \fi}
11338 \renewcommand*\l@part[2]{%
11339     \ifnum \c@tocdepth >-2\relax
11340         \addpenalty\@secpenalty
11341         \addvspace{2.25em \@plus\p@}%
11342         \begingroup
11343             \setlength\@tempdima{3em}%
11344             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11345             \parfillskip -\@pnumwidth
11346             {\leavevmode
11347             \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11348             \nobreak
11349         \endgroup
11350     \fi}
11351 \def\@part[#1]#2{%
11352     \ifnum \c@secnumdepth >\m@ne
11353         \refstepcounter{part}%
11354         \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11355     \else
11356         \addcontentsline{toc}{part}{#1}%
11357     \fi
11358     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11359     \interlinepenalty \@M
11360     \normalfont
11361     \ifnum \c@secnumdepth >\m@ne
11362         \Large\bfseries \partname-\thepart
11363     \par\nobreak

```



```

11364     \fi
11365     \huge \bfseries #2%
11366     \markboth{}{\par}%
11367     \nobreak
11368     \vskip 3ex
11369     \@afterheading}
11370 \ApplyPatchIfPackageLoaded{nameref}{%
11371   \bidi@patchcmd\NR@spart\raggedright{%
11372     \if@RTL\raggedleft\else\raggedright\fi
11373   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11374 }{%
11375   \bidi@patchcmd\@spart\raggedright{%
11376     \if@RTL\raggedleft\else\raggedright\fi
11377   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11378 }
11379 \renewenvironment{thebibliography}[1]
11380   {\section*{\refname
11381     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11382     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11383     \bidi@@thebibliography@font@hook%
11384     \list{\@biblabel{\@arabic\c@enumiv}}%
11385       {\settowidth\labelwidth{\@biblabel{#1}}%
11386         \leftmargin\labelwidth
11387         \advance\leftmargin\labelsep
11388         \@openbib@code
11389         \usecounter{enumiv}%
11390         \let\p@enumiv\@empty
11391         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11392     \sloppy\clubpenalty4000\widowpenalty4000%
11393     \sfcode`. \@m}
11394   {\def\@noitemerr
11395     {\@latex@warning{Empty `thebibliography' environment}}%
11396     \endlist}
11397 \renewcommand\left@footnoterule{%
11398   \kern-3\p@
11399   \hrule\@width.4\columnwidth
11400   \kern2.6\p@}
11401 \renewcommand\right@footnoterule{%
11402   \kern-3\p@
11403   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11404   \kern2.6\p@}
11405   \if@titlepage
11406   \renewcommand\maketitle{\begin{titlepage}%
11407     \let\footnotesize\small
11408     \let\right@footnoterule\relax
11409     \let\left@footnoterule\relax
11410     \let\textwidth@footnoterule\relax
11411     \let \footnote \thanks
11412     \null\vfil
11413     \vskip 60\p@
11414     \begin{center}%
11415       {\LARGE \@title \par}%
11416       \vskip 3em%
11417       {\large

```



```

11418     \lineskip .75em%
11419     \begin{tabular}[t]{c}%
11420         \@author
11421     \end{tabular}\par}%
11422     \vskip 1.5em%
11423     {\large \@date \par}%           % Set date in \large size.
11424 \end{center}\par
11425 \@thanks
11426 \vfil\null
11427 \end{titlepage}%
11428 \setcounter{footnote}{0}%
11429 \global\let\thanks\relax
11430 \global\let\maketitle\relax
11431 \global\let\@thanks\@empty
11432 \global\let\@author\@empty
11433 \global\let\@date\@empty
11434 \global\let\@title\@empty
11435 \global\let\title\relax
11436 \global\let\author\relax
11437 \global\let\date\relax
11438 \global\let\and\relax
11439 }
11440 \else
11441 \renewcommand\maketitle{\par
11442     \begingroup
11443         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11444         \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11445         \long\def\@makefntext##1{\parindent 1em\noindent
11446             \hb@xt@1.8em{%
11447                 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11448         \if@twocolumn
11449             \ifnum \col@number=\@ne
11450                 \@maketitle
11451             \else
11452                 \twocolumn[\@maketitle]%
11453             \fi
11454         \else
11455             \newpage
11456             \global\@topnum\z@ % Prevents figures from going at top of page.
11457             \@maketitle
11458         \fi
11459         \thispagestyle{plain}\@thanks
11460     \endgroup
11461     \setcounter{footnote}{0}%
11462     \global\let\thanks\relax
11463     \global\let\maketitle\relax
11464     \global\let\@maketitle\relax
11465     \global\let\@thanks\@empty
11466     \global\let\@author\@empty
11467     \global\let\@date\@empty
11468     \global\let\@title\@empty
11469     \global\let\title\relax
11470     \global\let\author\relax
11471     \global\let\date\relax

```



```

11472 \global\let\and\relax
11473 }
11474 \def\@maketitle{%
11475 \newpage
11476 \null
11477 \vskip 2em%
11478 \begin{center}%
11479 \let \footnote \thanks
11480 {\LARGE \@title \par}%
11481 \vskip 1.5em%
11482 {\large
11483 \lineskip .5em%
11484 \begin{tabular}[t]{c}%
11485 \@author
11486 \end{tabular}\par}%
11487 \vskip 1em%
11488 {\large \@date}%
11489 \end{center}%
11490 \par
11491 \vskip 1.5em}
11492 \fi
11493 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11494 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11495 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11496 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11497 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11498 \if@titlepage
11499 \renewcommand\maketitle{\begin{titlepage}%
11500 \let\footnotesize\small
11501 \let\right@footnoterule\relax
11502 \let\left@footnoterule\relax
11503 \let\textwidth@footnoterule\relax
11504 \let \footnote \thanks
11505 \let \LTRfootnote \LTRthanks
11506 \let \RTLfootnote \RTLthanks
11507 \null\vfil
11508 \vskip 60\p@
11509 \begin{center}%
11510 {\LARGE \@title \par}%
11511 \vskip 3em%
11512 {\large
11513 \lineskip .75em%
11514 \begin{tabular}[t]{c}%
11515 \@author
11516 \end{tabular}\par}%
11517 \vskip 1.5em%
11518 {\large \@date \par}% % Set date in \large size.
11519 \end{center}\par
11520 \@thanks
11521 \vfil\null
11522 \end{titlepage}%

```



```

11523 \setcounter{footnote}{0}%
11524 \global\let\thanks\relax
11525 \global\let\LTRthanks\relax
11526 \global\let\RTLthanks\relax
11527 \global\let\maketitle\relax
11528 \global\let\@thanks\@empty
11529 \global\let\@author\@empty
11530 \global\let\@date\@empty
11531 \global\let\@title\@empty
11532 \global\let\title\relax
11533 \global\let\author\relax
11534 \global\let\date\relax
11535 \global\let\and\relax
11536 }
11537 \else
11538 \renewcommand\maketitle{\par
11539 \begingroup
11540 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11541 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11542 \long\def\@makefntext##1{\parindent 1em\noindent
11543 \hb@xt@1.8em{%
11544 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11545 \if@twocolumn
11546 \ifnum \col@number=\@ne
11547 \@maketitle
11548 \else
11549 \twocolumn[\@maketitle]%
11550 \fi
11551 \else
11552 \newpage
11553 \global\@topnum\z@ % Prevents figures from going at top of page.
11554 \@maketitle
11555 \fi
11556 \thispagestyle{plain}\@thanks
11557 \endgroup
11558 \setcounter{footnote}{0}%
11559 \global\let\thanks\relax
11560 \global\let\LTRthanks\relax
11561 \global\let\RTLthanks\relax
11562 \global\let\maketitle\relax
11563 \global\let\@maketitle\relax
11564 \global\let\@thanks\@empty
11565 \global\let\@author\@empty
11566 \global\let\@date\@empty
11567 \global\let\@title\@empty
11568 \global\let\title\relax
11569 \global\let\author\relax
11570 \global\let\date\relax
11571 \global\let\and\relax
11572 }
11573 \def\@maketitle{%
11574 \newpage
11575 \null
11576 \vskip 2em%

```




```

11577 \begin{center}%
11578 \let \footnote \thanks
11579 \let \LTRfootnote \LTRthanks
11580 \let \RTLfootnote \RTLthanks
11581 {\LARGE \@title \par}%
11582 \vskip 1.5em%
11583 {\large
11584 \lineskip .5em%
11585 \begin{tabular}[t]{c}%
11586 \@author
11587 \end{tabular}\par}%
11588 \vskip 1em%
11589 {\large \@date}%
11590 \end{center}%
11591 \par
11592 \vskip 1.5em}
11593 \fi
11594 \renewcommand*\l@part[2]{%
11595 \ifnum \c@tocdepth >-2\relax
11596 \addpenalty{-\@highpenalty}%
11597 \addvspace{2.25em \@plus\p}%
11598 \begingroup
11599 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11600 \parfillskip -\@pnumwidth
11601 {\leavevmode
11602 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11603 \nobreak
11604 \global\@nobreaktrue
11605 \everypar{\global\@nobreakfalse\everypar{}}%
11606 \endgroup
11607 \fi}
11608 \renewcommand\theequation
11609 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11610 \renewcommand \thefigure
11611 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11612 \renewcommand \thetable
11613 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11614 \renewcommand \thechapter {\@arabic\c@chapter}
11615 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11616 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11617 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11618 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11619 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11620 \def\@makechapterhead#1{%
11621 \vspace*{50\p}%
11622 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11623 \ifnum \c@secnumdepth >\m@ne
11624 \if@mainmatter
11625 \huge\bfseries \@chapapp\space \thechapter
11626 \par\nobreak
11627 \vskip 20\p@
11628 \fi
11629 \fi
11630 \interlinepenalty\@M

```



```

11631 \Huge \bfseries #1\par\nobreak
11632 \vskip 40\p@
11633 }}
11634
11635 \def\@makeschapterhead#1{%
11636 \vspace*{50\p@}%
11637 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11638 \normalfont
11639 \interlinepenalty\@M
11640 \Huge \bfseries #1\par\nobreak
11641 \vskip 40\p@
11642 }}
11643 \renewcommand\backmatter{%
11644 \if@openright
11645 \cleardoublepage
11646 \else
11647 \clearpage
11648 \fi
11649 \@mainmatterfalse}
11650 \renewenvironment{thebibliography}[1]
11651 {\chapter*{\bibname
11652 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11653 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11654 \bidi@thebibliography@font@hook%
11655 \list{\@biblabel{\@arabic\c@enumiv}}%
11656 {\settowidth\labelwidth{\@biblabel{#1}}%
11657 \leftmargin\labelwidth
11658 \advance\leftmargin\labelsep
11659 \@openbib@code
11660 \usecounter{enumiv}%
11661 \let\p@enumiv\@empty
11662 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11663 \sloppy
11664 \clubpenalty4000
11665 \@clubpenalty \clubpenalty
11666 \widowpenalty4000%
11667 \sfcode\.\@m}
11668 {\def\@noitemerr
11669 {\@latex@warning{Empty `thebibliography' environment}}}%
11670 \endlist}

```

85 File extletter-xetex-bidi.def

```

11671 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11672 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
11673 \thispagestyle{firstpage}%
11674 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11675 \else % home address
11676 \thispagestyle{empty}%
11677 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11678 \fromaddress \*[2\parskip]%
11679 \@date \end{tabular}\par}%
11680 \fi
11681 \vspace{2\parskip}%

```



```

11682  {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
11683  \vspace{2\parskip}%
11684  #1\par\nobreak}
11685  \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11686  \stopbreaks
11687  \noindent
11688  \ifx\@empty\fromaddress\else
11689  \hspace*{\longindentation}\fi
11690  \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11691  \ignorespaces #1\ \ [6\medskipamount]%
11692  \ifx\@empty\fromsig
11693  \fromname
11694  \else \fromsig \fi\strut}%
11695  \par}
11696  \renewcommand\left@footnoterule{%
11697  \kern-\p@
11698  \hrule \@width .4\columnwidth
11699  \kern .6\p@}
11700  \renewcommand\right@footnoterule{%
11701  \kern-\p@
11702  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11703  \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11704  \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11705  \newdimen\bidi@columnwidth
11706  \def\bidi@floathook{%
11707  \bidi@columnwidth\columnwidth
11708  }
11709  \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11710  \if@bidi@csundef{ifHy@hyperfootnotes}{-}{-%
11711  \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{-%
11712  \ifHy@hyperfootnotes
11713  \let\@H@footnotetext\@footnotetext
11714  \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11715  \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11716  \let\@H@mpfootnotetext\@mpfootnotetext
11717  \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11718  \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11719  \fi
11720  }%
11721  }%
11722  }
11723  \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11724  \if@bidi@csundef{ifHy@hyperfootnotes}{-}{-%
11725  \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{-%
11726  \ifHy@hyperfootnotes
11727  \let\@H@footnotetext\@footnotetext
11728  \let\@footnotetext\@H@footnotetext
11729  \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11730  \let\@LTRfootnotetext\@HLTR@LTRfootnotetext
11731  \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11732  \let\@RTLfootnotetext\@HRTL@RTLfootnotetext

```



```

11733 \let\H@mpfootnotetext\mpfootnotetext
11734 \let\@mpfootnotetext\@H@mpfootnotetext
11735 \let\HLTR@mpLTRfootnotetext\mpLTRfootnotetext
11736 \let\@mpLTRfootnotetext\@HLTR@mpLTRfootnotetext
11737 \let\HRTL@mpRTLfootnotetext\mpRTLfootnotetext
11738 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11739 \fi
11740 }%
11741 }%
11742 }
11743 \let\autofooterule\relax
11744 \let\rightfootnoterule\relax
11745 \let\leftfootnoterule\relax
11746 \let\textwidthfootnoterule\relax
11747 \let\LRfootnoterule\relax
11748 \def\footnoterule{\kern-3\p@
11749 \hrule \@width \columnwidth \kern 2.6\p@}
11750 \newcommand{\@preamnormalfmt}{%
11751 \parindent 1em%
11752 \noindent
11753 }
11754 \newcommand{\@normalfootfmt}[1]{%
11755 \@preamnormalfmt
11756 \footfootmark
11757 \rule{z@\footnotesep\ignorespaces{\foottextfont #1}}%
11758 \@finalstrut\strutbox
11759 }
11760 \newcommand{\@normalRTLfootfmt}[1]{%
11761 \@preamnormalfmt
11762 \RTLfootfootmark
11763 \rule{z@\footnotesep\ignorespaces{\RTLfoottextfont #1}}%
11764 \@finalstrut\strutbox
11765 }
11766 \newcommand{\@normalLTRfootfmt}[1]{%
11767 \@preamnormalfmt
11768 \LTRfootfootmark
11769 \rule{z@\footnotesep\ignorespaces{\LTRfoottextfont #1}}%
11770 \@finalstrut\strutbox
11771 }
11772 \renewcommand{\@footnotetext}[1]{%
11773 \insert\footins{%
11774 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11775 \def\baselinestretch{\m@m@footnote@spacing}%
11776 \reset@font
11777 \foottextfont
11778 \@preamfntext
11779 \hsize\columnwidth
11780 \protected@edef\@currentlabel{%
11781 \csname p@footnote\endcsname\@thefnmark}%
11782 \color@begingroup
11783 \@normalfootfmt{#1}%
11784 \color@endgroup}%
11785 \m@mmf@prepare}
11786 \newcommand{\@bidi@bidiold@footnotetext}[1]{%

```



```

11787 \bidi@step@absolutefootnote@count
11788 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11789 \insert\footins{%
11790 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11791 \def\baselinestretch{\m@m@footnote@spacing}%
11792 \reset@font
11793 \foottextfont
11794 \@preamfntext
11795 \hsize\columnwidth
11796 \protected@edef\@currentlabel{%
11797 \csname p@footnote\endcsname\@thefnmark}%
11798 \color@begingroup
11799 \@normalfootfmt{#1}%
11800 \color@endgroup}%
11801 \m@mmf@prepare
11802 }
11803 \renewcommand{\@RTLfootnotetext}[1]{%
11804 \insert\footins{%
11805 \@RTLtrue%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \RTLfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalRTLfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@mmf@prepare}
11817 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11818 \bidi@step@absolutefootnote@count
11819 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11820 \insert\footins{%
11821 \@RTLtrue%
11822 \def\baselinestretch{\m@m@footnote@spacing}%
11823 \reset@font
11824 \RTLfoottextfont
11825 \@preamfntext
11826 \hsize\columnwidth
11827 \protected@edef\@currentlabel{%
11828 \csname p@footnote\endcsname\@thefnmark}%
11829 \color@begingroup
11830 \@normalRTLfootfmt{#1}%
11831 \color@endgroup}%
11832 \m@mmf@prepare
11833 }
11834 \renewcommand{\@LTRfootnotetext}[1]{%
11835 \insert\footins{%
11836 \@RTLfalse%
11837 \def\baselinestretch{\m@m@footnote@spacing}%
11838 \reset@font
11839 \LTRfoottextfont
11840 \@preamfntext

```



```

11841 \hsize\columnwidth
11842 \protected@edef\@currentlabel{%
11843   \csname p@footnote\endcsname\@thefnmark}%
11844 \color@begingroup
11845   \@normalLTRfootfmt{#1}%
11846 \color@endgroup}%
11847 \m@mmf@prepare}
11848 \renewcommand{\@mpfootnotetext}[1]{%
11849   \global\setbox\@mpfootins\vbox{%
11850     \unvbox\@mpfootins
11851     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11852     \def\baselinestretch{\m@m@footnote@spacing}%
11853     \reset@font%
11854     \foottextfont \hsize\columnwidth \@parboxrestore
11855     \protected@edef\@currentlabel{%
11856       \csname p@mpfootnote\endcsname\@thefnmark}%
11857     \color@begingroup
11858       \@normalfootfmt{#1}%
11859     \color@endgroup}}
11860 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11861   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11862   \global\setbox\@mpfootins\vbox{%
11863     \unvbox\@mpfootins
11864     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11865     \def\baselinestretch{\m@m@footnote@spacing}%
11866     \reset@font%
11867     \foottextfont \hsize\columnwidth \@parboxrestore
11868     \protected@edef\@currentlabel{%
11869       \csname p@mpfootnote\endcsname\@thefnmark}%
11870     \color@begingroup
11871       \@normalfootfmt{#1}%
11872     \color@endgroup}}
11873 \renewcommand{\@mpLTRfootnotetext}[1]{%
11874   \global\setbox\@mpfootins\vbox{%
11875     \unvbox\@mpfootins
11876     \@RTLfalse
11877     \def\baselinestretch{\m@m@footnote@spacing}%
11878     \reset@font%
11879     \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11880     \protected@edef\@currentlabel{%
11881       \csname p@mpfootnote\endcsname\@thefnmark}%
11882     \color@begingroup
11883       \@normalLTRfootfmt{#1}%
11884     \color@endgroup}}
11885 \renewcommand{\@mpRTLfootnotetext}[1]{%
11886   \global\setbox\@mpfootins\vbox{%
11887     \unvbox\@mpfootins
11888     \@RTLtrue
11889     \def\baselinestretch{\m@m@footnote@spacing}%
11890     \reset@font%
11891     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11892     \protected@edef\@currentlabel{%
11893       \csname p@mpfootnote\endcsname\@thefnmark}%
11894     \color@begingroup

```



```

11895   \@normalRTLfootfmt{#1}%
11896   \color@endgroup}}
11897 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11898   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11899   \global\setbox\@mpfootins\vbox{%
11900     \unvbox\@mpfootins
11901     \@RTLtrue
11902     \def\baselinestretch{\m@m@footnote@spacing}%
11903     \reset@font%
11904     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11905     \protected@edef\@currentlabel{%
11906       \csname p@mpfootnote\endcsname\@thefnmark}%
11907   \color@bebingroup
11908   \@normalRTLfootfmt{#1}%
11909   \color@endgroup}}
11910 \let\m@mold@footnotetext\@footnotetext
11911 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11912 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11913 \let\m@mold@mpfootnotetext\@mpfootnotetext
11914 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11915 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11916 \bidi@ensure@newcommand{\normalfootnotes}{%
11917   \@bidi@before@Hy@hyperfootnotes
11918   \let\@footnotetext\m@mold@footnotetext
11919   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11920   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11921   \let\@mpfootnotetext\m@mold@mpfootnotetext
11922   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11923   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11924   \@bidi@after@Hy@hyperfootnotes
11925   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11926 }
11927 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11928 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11929   \def\m@m@singlespace{#1}%
11930   \def\m@m@footnote@spacing{#1}%
11931   \def\m@m@float@spacing{#1} %
11932 }
11933 \setSingleSpace{1}
11934 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11935 \bidi@ensure@newcommand*{\m@mmf@prepare}{%
11936   \kern-\multiplefootnotemarker
11937   \kern\multiplefootnotemarker\relax}
11938 \bidi@ensure@newlength{\footmarkwidth}
11939 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11940 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11941 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11942 \bidi@ensure@newcommand{\footfootmark}{%
11943   \ifdim\footmarkwidth < \z@
11944     \llap{\hb@xt@ -\footmarkwidth{%
11945       \hss\normalfont\footscript{\@thefnmark}}%
11946       \hspace*{-\footmarkwidth}}}%
11947   \else
11948     \ifdim\footmarkwidth = \z@

```



```

11949     {\normalfont\footscript{\@thefnmark}}%
11950     \else
11951       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11952     \fi
11953 \fi}
11954 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11955   \ifdim\footmarkwidth < \z@
11956     \llap{\hb@xt@ -\footmarkwidth{%
11957       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11958       \hspace*{-\footmarkwidth}}%
11959   \else
11960     \ifdim\footmarkwidth = \z@
11961       {\normalfont\LTRfootscript{\@thefnmark}}%
11962     \else
11963       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11964     \fi
11965 \fi}
11966 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11967   \ifdim\footmarkwidth < \z@
11968     \llap{\hb@xt@ -\footmarkwidth{%
11969       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11970       \hspace*{-\footmarkwidth}}%
11971   \else
11972     \ifdim\footmarkwidth = \z@
11973       {\normalfont\RTLfootscript{\@thefnmark}}%
11974     \else
11975       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11976     \fi
11977 \fi}
11978 \footmarkstyle{\textsuperscript{#1}}
11979 \LTRfootmarkstyle{\textsuperscript{#1}}
11980 \RTLfootmarkstyle{\textsuperscript{#1}}
11981 \newcommand*{\bidi@normal@footmarkwidth}{%
11982   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11983 }
11984 \newcommand*{\bidi@star@footmarkwidth}{%
11985   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11986 }
11987 \bidi@normal@footmarkwidth
11988 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11989 \bidi@ensure@newcommand*{\extrafeetins}{%
11990   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11991   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11992   \bidi@joinfootnotes\@bidi@copyins@}{\unvbox\@bidi@copyins@}%
11993   \extrafeetinshook}
11994 \bidi@ensure@newcommand{\extrafeetinshook}{%
11995   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11996   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11997   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11998   \bidi@ensure@newlength{\footinsdim}
11999   \setlength{\footinsdim}{8in} % standard for \dimen\footins
12000 \bidi@ensure@newcommand{\@preamfntext}{%
12001   \interlinepenalty\interfootnotelinepenalty
12002   \floatingpenalty \@MM

```




```

12003 \splittopskip=\footnotesep
12004 \splitmaxdepth=\dp\strutbox
12005 \@parboxrestore}
12006 \def\bid@ifmulticol#1#2{\@tempswafalse
12007 \ifnum\col@number>\@ne
12008 \ifnum\count\footins>1999 \@tempwatruue \fi
12009 \fi
12010 \if@tempswa #1\else #2\fi
12011 }
12012 \def\bid@joinfootnotes#1#2#3{%
12013 \ifvoid#1
12014 \else
12015 \@tempskipa\skip#1%
12016 \bid@ifmulticol{\divide\@tempskipa\col@number}{}%
12017 \edef\bid@footskip{\vskip\the\@tempskipa\relax}%
12018 \bid@removexfootskip
12019 \ifvoid\footins
12020 \global\setbox\footins\vbox{#2#3}%
12021 \else
12022 \global\setbox\footins\vbox{%
12023 \unvbox\footins
12024 \bid@footskip
12025 #2#3%
12026 }%
12027 \fi
12028 \fi
12029 }
12030 \def\bid@reinsertfootnote#1#2#3{%
12031 \ifvoid#1%
12032 \else
12033 \insert\footins{#2#3}%
12034 \fi
12035 }
12036 \def\bid@joinmpfootnotes#1#2#3{%
12037 \ifvoid#1
12038 \else
12039 \@tempskipa\skip#1%
12040 \bid@ifmulticol{\divide\@tempskipa\col@number}{}%
12041 \edef\bid@footskip{\vskip\the\@tempskipa\relax}%
12042 \bid@removexfootskip
12043 \ifvoid\@mpfootins
12044 \global\setbox\@mpfootins\vbox{#2#3}%
12045 \else
12046 \global\setbox\@mpfootins\vbox{%
12047 \unvbox\@mpfootins
12048 \bid@footskip
12049 #2#3%
12050 }%
12051 \fi
12052 \fi
12053 }
12054 \newcount\bid@absolutepage@count
12055 \bid@absolutepage@count\@ne
12056 \newcount\bid@absolutefootnote@count

```



```

12057 \bidi@AfterOutputBoxOutputPage{%
12058   \if@filesw
12059     \edef\@tempa{%
12060       \write\@auxout{%
12061         \string\bidi@finalfootnoteperpage%
12062         {\noexpand\number\noexpand\bidi@absolutepage@count}%
12063         {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12064       }%
12065     }%
12066   \@tempa
12067   \fi
12068 }
12069 \bidi@AtEndOutputPage{%
12070   \global\advance\bidi@absolutepage@count\@ne
12071 }
12072 \newcommand*\bidi@finalfootnoteperpage}[2]{%
12073   \expandafter\gdef\csname bidi@currentpagefinalfootnote@#1\endcsname{#2}%
12074 }
12075 \newif\if@bidi@finalfootnoteperpage
12076 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12077   \if@bidi@csundef{bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count}{%
12078     \global\@bidi@finalfootnoteperpagetrue
12079   }{%
12080     \global\@bidi@finalfootnoteperpagefalse
12081     \ifnum\bidi@absolutefootnote@count=\bidi@csuse{bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count}%
12082       #1%
12083     \else
12084       #2%
12085     \fi
12086   }%
12087 }
12088 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%
12089   \bidi@ifafterfinalfootnoteperpage{%
12090     \bidi@reinsertfootnote{#1}{#2}{#3}%
12091   }{%
12092   }%
12093 }
12094 \newcommand*\bidi@step@absolutefootnote@count}{%
12095   \global\advance\bidi@absolutefootnote@count\@ne
12096 }
12097 \bidi@AfterEndDocumentCheckLabelsRerun{%
12098   \if@bidi@finalfootnoteperpage
12099     \PackageWarningNoLine{bidi}{%
12100       The absolute final footnote is not
12101       known on every page of your
12102       document. Rerun TeX to get the
12103       absolute final footnote on every page
12104       of your document%
12105     }%
12106   \fi
12107 }
12108 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12109   \extrafeetminihook}
12110 \bidi@ensure@newcommand{\extrafeetendmini}{%

```



```

12111 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12112 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12113 \extrafeetendminihook}
12114 \bidi@ensure@newcommand{\extrafeetendminihook}{%}
12115 \bidi@ensure@newcommand{\m@doextrafeetendmini}{\extrafeetendmini}
12116 \def\endminipage{%
12117 \par
12118 \unskip
12119 \m@doextrafeetendmini
12120 \ifvoid\@mpfootins
12121 \else
12122 \vskip\skip\@mpfootins
12123 \normalcolor
12124 \footnoterule
12125 \unvbox\@mpfootins
12126 \fi
12127 \@minipagefalse
12128 \color@endgroup
12129 \egroup
12130 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12131 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12132 \@namedef{@footstart#1}{%
12133 \leftskip=\z@
12134 \rightskip=\z@
12135 \parindent=\z@
12136 }%
12137 }
12138 \newinsert\footinsv@r
12139 \skip\footinsv@r\skip\footins
12140 \count\footinsv@r=1000 % no magnification
12141 \dimen\footinsv@r=\footinsdim
12142 \m@make@footstart{v@r}
12143 \newinsert\footinsv@l
12144 \skip\footinsv@l\skip\footins
12145 \count\footinsv@l=1000 % no magnification
12146 \dimen\footinsv@l=\footinsdim
12147 \m@make@footstart{v@l}
12148 \bidi@ensure@newcommand{\@footgroupv@r}{%}
12149 \newinsert\@mpfootinsv@r
12150 \skip\@mpfootinsv@r\skip\@mpfootins
12151 \newinsert\@mpfootinsv@l
12152 \skip\@mpfootinsv@l\skip\@mpfootins
12153 \bidi@ensure@newcommand{\mp@footgroupv@r}{%}
12154 \newcount\m@m@k \newdimen\m@m@h
12155 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12156 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12157 \valign{##\vfill\cr\m@mdosplits}\endR}}
12158 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12159 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12160 \valign{##\vfill\cr\m@mdosplits}\endL}}
12161 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12162 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12163 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12164 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h

```



```

12165 \setbox2 \vsplit0 to \dimen0
12166 \unvbox2 }
12167 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12168 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12169 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12170 \@bidi@before@Hy@hyperfootnotes
12171 \let\@footnotetext\@twocolfootnotetext
12172 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12173 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12174 \dimen\footinsv@r=2\footinsdim
12175 \count\footinsv@r=500\relax
12176 \m@make@twocol@footgroup{v@r}%
12177 \let\@footgroupv@r\@twocol@footgroupv@r
12178 \dimen\footinsv@l=2\footinsdim
12179 \count\footinsv@l=500\relax
12180 \bidi@make@twocol@LTRfootgroup{v@l}%
12181 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12182 \let\@mpfootnotetext\@mptwocolfootnotetext
12183 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12184 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12185 \@bidi@after@Hy@hyperfootnotes
12186 \m@make@mptwocol@footgroup{v@r}%
12187 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12188 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12189 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12190 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12191 }
12192 \newcommand{\TwoColumnFootnotes}{%
12193 \@namedef{foottextfontv@r}{\foottextfont}%
12194 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12195 \@bidi@before@Hy@hyperfootnotes
12196 \let\@footnotetext\@TwoColfootnotetext
12197 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12198 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12199 \dimen\footinsv@r=2\footinsdim
12200 \count\footinsv@r=500\relax
12201 \m@make@twocol@footgroup{v@r}%
12202 \let\@footgroupv@r\@twocol@footgroupv@r
12203 \dimen\footinsv@l=2\footinsdim
12204 \count\footinsv@l=500\relax
12205 \bidi@make@twocol@LTRfootgroup{v@l}%
12206 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12207 \let\@mpfootnotetext\@mpTwoColfootnotetext
12208 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12209 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12210 \@bidi@after@Hy@hyperfootnotes
12211 \m@make@mptwocol@footgroup{v@r}%
12212 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12213 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12214 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12215 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12216 }
12217 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12218 \if@RTL@footnote

```



```

12219   \footinsv@r
12220   \else
12221     \footinsv@l
12222   \fi
12223 { \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12224   \def\baselinestretch{\m@m@footnote@spacing}%
12225   \reset@font\foottextfont
12226   \@preamfntext
12227   \protected@edef\@currentlabel{%
12228     \csname p@footnote\endcsname\@thefnmark}%
12229   \color@begingroup
12230     \@twocolfootfmt{#1}%
12231   \color@endgroup}%
12232   \m@mmf@prepare}
12233 \newcommand{\@TwoColfootnotetext}[1]{%
12234   \bidi@step@absolute@footnote@count
12235   \if@RTL@footnote
12236     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12237   \else
12238     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12239   \fi
12240   \global\setbox
12241   \if@RTL@footnote
12242     \footinsv@r
12243   \else
12244     \footinsv@l
12245   \fi
12246   \vbox{%
12247     \unvbox
12248     \if@RTL@footnote
12249       \footinsv@r
12250     \else
12251       \footinsv@l
12252     \fi
12253     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12254     \def\baselinestretch{\m@m@footnote@spacing}%
12255     \reset@font\foottextfont
12256     \@preamfntext
12257     \protected@edef\@currentlabel{%
12258       \csname p@footnote\endcsname\@thefnmark}%
12259     \color@begingroup
12260       \@twocolfootfmt{#1}%
12261     \color@endgroup}%
12262     \m@mmf@prepare
12263     \if@RTL@footnote
12264       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12265     \else
12266       \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12267     \fi
12268 }
12269 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12270   \def\baselinestretch{\m@m@footnote@spacing}%
12271   \reset@font\LTRfoottextfont
12272   \@preamfntext

```



```

12273 \protected@edef\@currentlabel{%
12274   \csname p@footnote\endcsname\@thefnmark}%
12275 \color@begingroup
12276   \@twocolLTRfootfmt{#1}%
12277 \color@endgroup}%
12278 \m@mmf@prepare}
12279 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12280 \bidi@step@absolutefootnote@count
12281 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12282 \global\setbox\footinsv@l\vbox{%
12283 \unvbox\footinsv@l
12284 \@RTLfalse
12285 \def\baselinestretch{\m@m@footnote@spacing}%
12286 \reset@font\LTRfoottextfont
12287 \@preamfntext
12288 \protected@edef\@currentlabel{%
12289   \csname p@footnote\endcsname\@thefnmark}%
12290 \color@begingroup
12291   \@twocolLTRfootfmt{#1}%
12292 \color@endgroup}%
12293 \m@mmf@prepare
12294 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12295 }
12296 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12297 \def\baselinestretch{\m@m@footnote@spacing}%
12298 \reset@font\RTLfoottextfont
12299 \@preamfntext
12300 \protected@edef\@currentlabel{%
12301   \csname p@footnote\endcsname\@thefnmark}%
12302 \color@begingroup
12303   \@twocolRTLfootfmt{#1}%
12304 \color@endgroup}%
12305 \m@mmf@prepare}
12306 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12307 \bidi@step@absolutefootnote@count
12308 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12309 \global\setbox\footinsv@r\vbox{%
12310 \unvbox\footinsv@r
12311 \@RTLtrue
12312 \def\baselinestretch{\m@m@footnote@spacing}%
12313 \reset@font\RTLfoottextfont
12314 \@preamfntext
12315 \protected@edef\@currentlabel{%
12316   \csname p@footnote\endcsname\@thefnmark}%
12317 \color@begingroup
12318   \@twocolRTLfootfmt{#1}%
12319 \color@endgroup}%
12320 \m@mmf@prepare
12321 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12322 }
12323 \bidi@ensure@newcommand{\@preamtwofmt}{-%
12324 \hspace .45\hspace
12325 \parindent=\z@
12326 \tolerance=5000\relax

```



```

12327 \leavevmode}
12328 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12329 \@preamtwofmt
12330 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12331 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12332 \@preamtwofmt
12333 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12334 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12335 \@preamtwofmt
12336 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12337 \bidi@ensure@newcommand{\@emptwocolfootnotetext}[1]{%
12338 \global\setbox
12339 \if@RTL@footnote
12340 \@mpfootinsv@r
12341 \else
12342 \@mpfootinsv@l
12343 \fi
12344 \vbox{%
12345 \unvbox
12346 \if@RTL@footnote
12347 \@mpfootinsv@r
12348 \else
12349 \@mpfootinsv@l
12350 \fi
12351 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12352 \def\baselinestretch{\m@m@footnote@spacing}%
12353 \reset@font\foottextfont
12354 \hsize\columnwidth \@parboxrestore
12355 \protected@edef\@currentlabel{%
12356 \csname p@mpfootnote\endcsname\@thefnmark}%
12357 \color@begingroup
12358 \@twocolfootfmt{#1}%
12359 \color@endgroup}%
12360 \m@mmf@prepare}
12361 \newcommand{\@mpTwoColfootnotetext}[1]{%
12362 \if@RTL@footnote
12363 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12364 \else
12365 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12366 \fi
12367 \global\setbox
12368 \if@RTL@footnote
12369 \@mpfootinsv@r
12370 \else
12371 \@mpfootinsv@l
12372 \fi
12373 \vbox{%
12374 \unvbox
12375 \if@RTL@footnote
12376 \@mpfootinsv@r
12377 \else
12378 \@mpfootinsv@l
12379 \fi
12380 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12381 \def\baselinestretch{\m@m@footnote@spacing}%
12382 \reset@font\foottextfont
12383 \hsize\columnwidth \@parboxrestore
12384 \protected@edef\@currentlabel{%
12385 \csname p@mpfootnote\endcsname\@thefnmark}%
12386 \color@begingroup
12387 \@twocolfootfmt{#1}%
12388 \color@endgroup}%
12389 \m@mmf@prepare}
12390 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12391 \global\setbox\@mpfootinsv@l\vbox{%
12392 \unvbox\@mpfootinsv@l
12393 \@RTLfalse
12394 \def\baselinestretch{\m@m@footnote@spacing}%
12395 \reset@font\LTRfoottextfont
12396 \hsize\columnwidth \@parboxrestore
12397 \protected@edef\@currentlabel{%
12398 \csname p@mpfootnote\endcsname\@thefnmark}%
12399 \color@begingroup
12400 \@twocolLTRfootfmt{#1}%
12401 \color@endgroup}%
12402 \m@mmf@prepare}
12403 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12404 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12405 \global\setbox\@mpfootinsv@l\vbox{%
12406 \unvbox\@mpfootinsv@l
12407 \@RTLfalse
12408 \def\baselinestretch{\m@m@footnote@spacing}%
12409 \reset@font\LTRfoottextfont
12410 \hsize\columnwidth \@parboxrestore
12411 \protected@edef\@currentlabel{%
12412 \csname p@mpfootnote\endcsname\@thefnmark}%
12413 \color@begingroup
12414 \@twocolLTRfootfmt{#1}%
12415 \color@endgroup}%
12416 \m@mmf@prepare}
12417 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12418 \global\setbox\@mpfootinsv@r\vbox{%
12419 \unvbox\@mpfootinsv@r
12420 \@RTLtrue
12421 \def\baselinestretch{\m@m@footnote@spacing}%
12422 \reset@font\RTLfoottextfont
12423 \hsize\columnwidth \@parboxrestore
12424 \protected@edef\@currentlabel{%
12425 \csname p@mpfootnote\endcsname\@thefnmark}%
12426 \color@begingroup
12427 \@twocolRTLfootfmt{#1}%
12428 \color@endgroup}%
12429 \m@mmf@prepare}
12430 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12431 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12432 \global\setbox\@mpfootinsv@r\vbox{%
12433 \unvbox\@mpfootinsv@r
12434 \@RTLtrue

```




```

12435 \def\baselinestretch{\m@m@footnote@spacing}%
12436 \reset@font\RTLfoottextfont
12437 \hsize\columnwidth \@parboxrestore
12438 \protected@edef\@currentlabel{%
12439 \csname p@mpfootnote\endcsname\@thefnmark}%
12440 \color@begingroup
12441 \@twocolRTLfootfmt{#1}%
12442 \color@endgroup}%
12443 \m@m@prepare}
12444 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12445 \@namedef{@twocol@footgroup#1}{%
12446 \def\baselinestretch{\m@m@footnote@spacing}%
12447 \hsize\bidi@columnwidth
12448 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12449 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12450 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12451 \@namedef{@twocol@LTRfootgroup#1}{%
12452 \def\baselinestretch{\m@m@footnote@spacing}%
12453 \hsize\bidi@columnwidth
12454 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12455 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12456 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12457 \@namedef{@mptwocol@footgroup#1}{%
12458 \def\baselinestretch{\m@m@footnote@spacing}%
12459 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12460 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12461 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12462 \@namedef{@mptwocol@LTRfootgroup#1}{%
12463 \def\baselinestretch{\m@m@footnote@spacing}%
12464 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12465 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12466 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12467 \@namedef{foottextfontv@r}{\foottextfont} % [RS]
12468 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12469 \@bidi@before@Hy@hyperfootnotes
12470 \let@footnotetext\threecolfootnotetext
12471 \let@LTRfootnotetext\threecolLTRfootnotetext
12472 \let@RTLfootnotetext\threecolRTLfootnotetext
12473 \dimen\footinsv@r=3\footinsdim
12474 \count\footinsv@r=333\relax
12475 \m@make@threecol@footgroup{v@r}%
12476 \let@footgroupv@r\@threecol@footgroupv@r
12477 \dimen\footinsv@l=3\footinsdim
12478 \count\footinsv@l=333\relax
12479 \bidi@make@threecol@LTRfootgroup{v@l}%
12480 \let@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12481 \let@mpfootnotetext@mpthreecolfootnotetext
12482 \let@mpLTRfootnotetext@mpthreecolLTRfootnotetext
12483 \let@mpRTLfootnotetext@mpthreecolRTLfootnotetext
12484 \@bidi@after@Hy@hyperfootnotes
12485 \m@make@mpthreecol@footgroup{v@r}%
12486 \let@mp@footgroupv@r\@mpthreecol@footgroupv@r
12487 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12488 \let@mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l

```



```

12489 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12490 }
12491 \newcommand{\ThreeColumnFootnotes}{%
12492 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12493 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12494 \@bidi@before@Hy@hyperfootnotes
12495 \let\@footnotetext\@ThreeColfootnotetext
12496 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12497 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12498 \dimen\footinsv@r=3\footinsdim
12499 \count\footinsv@r=333\relax
12500 \m@make@threecol@footgroup{v@r}%
12501 \let\@footgroupv@r\@threecol@footgroupv@r
12502 \dimen\footinsv@l=3\footinsdim
12503 \count\footinsv@l=333\relax
12504 \bidi@make@threecol@LTRfootgroup{v@l}%
12505 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12506 \let\@mpfootnotetext\@mpThreeColfootnotetext
12507 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12508 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12509 \@bidi@after@Hy@hyperfootnotes
12510 \m@make@mpthreecol@footgroup{v@r}%
12511 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12512 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12513 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12514 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12515 }
12516 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12517 \if@RTL@footnote
12518 \footinsv@r
12519 \else
12520 \footinsv@l
12521 \fi
12522 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12523 \def\baselinestretch{\m@footnote@spacing}%
12524 \reset@font\foottextfont
12525 \@preamfntext
12526 \protected@edef\@currentlabel{%
12527 \csname p@footnote\endcsname\@thefnmark}%
12528 \color@begingroup
12529 \@threecolfootfmt{#1}%
12530 \color@endgroup}\m@mmf@prepare}
12531 \newcommand{\@ThreeColfootnotetext}[1]{%
12532 \bidi@step@absolute@footnote@count
12533 \if@RTL@footnote
12534 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12535 \else
12536 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12537 \fi
12538 \global\setbox
12539 \if@RTL@footnote
12540 \footinsv@r
12541 \else
12542 \footinsv@l

```



```

12543 \fi
12544 \vbox{%
12545 \unvbox
12546 \if@RTL@footnote
12547 \footinsv@r
12548 \else
12549 \footinsv@l
12550 \fi
12551 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12552 \def\baselinestretch{\m@m@footnote@spacing}%
12553 \reset@font\foottextfont
12554 \@preamfntext
12555 \protected@edef\@currentlabel{%
12556 \csname p@footnote\endcsname\@thefnmark}%
12557 \color@begingroup
12558 \@threecolfootfmt{#1}%
12559 \color@endgroup}\m@mmf@prepare
12560 \if@RTL@footnote
12561 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12562 \else
12563 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12564 \fi
12565 }
12566 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12567 \def\baselinestretch{\m@m@footnote@spacing}%
12568 \reset@font\LTRfoottextfont
12569 \@preamfntext
12570 \protected@edef\@currentlabel{%
12571 \csname p@footnote\endcsname\@thefnmark}%
12572 \color@begingroup
12573 \@threecolLTRfootfmt{#1}%
12574 \color@endgroup}\m@mmf@prepare}
12575 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12576 \bidi@step@absolutefootnote@count
12577 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12578 \global\setbox\footinsv@l\vbox{%
12579 \unvbox\footinsv@l
12580 \@RTLfalse
12581 \def\baselinestretch{\m@m@footnote@spacing}%
12582 \reset@font\LTRfoottextfont
12583 \@preamfntext
12584 \protected@edef\@currentlabel{%
12585 \csname p@footnote\endcsname\@thefnmark}%
12586 \color@begingroup
12587 \@threecolLTRfootfmt{#1}%
12588 \color@endgroup}\m@mmf@prepare
12589 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12590 }
12591 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12592 \def\baselinestretch{\m@m@footnote@spacing}%
12593 \reset@font\RTLfoottextfont
12594 \@preamfntext
12595 \protected@edef\@currentlabel{%
12596 \csname p@footnote\endcsname\@thefnmark}%

```



```

12597 \color@begingroup
12598   \@threecolRTLfootfmt{#1}%
12599 \color@endgroup}\m@mmf@prepare}
12600 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12601   \bidi@step@absolute@footnote@count
12602   \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12603   \global\setbox\footinsv@r\vbox{%
12604     \unvbox\footinsv@r
12605     \@RTLtrue
12606     \def\baselinestretch{\m@m@footnote@spacing}%
12607     \reset@font\RTLfoottextfont
12608     \@preamftext
12609     \protected@edef\@currentlabel{%
12610       \csname p@footnote\endcsname\@thefnmark}%
12611     \color@begingroup
12612       \@threecolRTLfootfmt{#1}%
12613     \color@endgroup}\m@mmf@prepare
12614     \bidi@reinsertfinalfootnote@perpage\footinsv@r\@footstartv@r\@footgroupv@r
12615   }
12616 \bidi@ensure@newcommand{\@preamthreefmt}{%
12617   \hspace{.3\hspace}
12618   \parindent=\z@
12619   \tolerance=5000\relax
12620   \leavevmode}
12621 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12622   \@preamthreefmt
12623   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12624 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12625   \@preamthreefmt
12626   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12627 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12628   \@preamthreefmt
12629   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12630 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12631   \global\setbox
12632     \if@RTL@footnote
12633     \@mpfootinsv@r
12634   \else
12635     \@mpfootinsv@l
12636   \fi
12637   \vbox{%
12638     \unvbox
12639     \if@RTL@footnote
12640     \@mpfootinsv@r
12641   \else
12642     \@mpfootinsv@l
12643   \fi
12644     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12645     \def\baselinestretch{\m@m@footnote@spacing}%
12646     \reset@font\foottextfont
12647     \hspace\columnwidth \@parboxrestore
12648     \protected@edef\@currentlabel{%
12649       \csname p@mpfootnote\endcsname\@thefnmark}%
12650   \color@begingroup

```



```

12651 \@threecolfootfmt{#1}%
12652 \color@endgroup}\m@mmf@prepare}
12653 \newcommand{\@mpThreeColfootnotetext}[1]{%
12654 \if@RTL@footnote
12655 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12656 \else
12657 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12658 \fi
12659 \global\setbox
12660 \if@RTL@footnote
12661 \@mpfootinsv@r
12662 \else
12663 \@mpfootinsv@l
12664 \fi
12665 \vbox{%
12666 \unvbox
12667 \if@RTL@footnote
12668 \@mpfootinsv@r
12669 \else
12670 \@mpfootinsv@l
12671 \fi
12672 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12673 \def\baselinestretch{\m@m@footnote@spacing}%
12674 \reset@font\foottextfont
12675 \hsize\columnwidth \@parboxrestore
12676 \protected@edef\@currentlabel{%
12677 \csname p@mpfootnote\endcsname\@thefnmark}%
12678 \color@begingroup
12679 \@threecolfootfmt{#1}%
12680 \color@endgroup}\m@mmf@prepare}
12681 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12682 \global\setbox\@mpfootinsv@l\vbox{%
12683 \unvbox\@mpfootinsv@l
12684 \@RTLfalse
12685 \def\baselinestretch{\m@m@footnote@spacing}%
12686 \reset@font\LTRfoottextfont
12687 \hsize\columnwidth \@parboxrestore
12688 \protected@edef\@currentlabel{%
12689 \csname p@mpfootnote\endcsname\@thefnmark}%
12690 \color@begingroup
12691 \@threecolLTRfootfmt{#1}%
12692 \color@endgroup}\m@mmf@prepare}
12693 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12694 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12695 \global\setbox\@mpfootinsv@l\vbox{%
12696 \unvbox\@mpfootinsv@l
12697 \@RTLfalse
12698 \def\baselinestretch{\m@m@footnote@spacing}%
12699 \reset@font\LTRfoottextfont
12700 \hsize\columnwidth \@parboxrestore
12701 \protected@edef\@currentlabel{%
12702 \csname p@mpfootnote\endcsname\@thefnmark}%
12703 \color@begingroup
12704 \@threecolLTRfootfmt{#1}%

```



```

12705 \color@endgroup}\m@mmf@prepare}
12706 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12707 \global\setbox\@mpfootinsv@r\vbox{%
12708 \unvbox\@mpfootinsv@r
12709 \RTLtrue
12710 \def\baselinestretch{\m@m@footnote@spacing}%
12711 \reset@font\RTLfoottextfont
12712 \hsize\columnwidth \@parboxrestore
12713 \protected@edef\@currentlabel{%
12714 \csname p@mpfootnote\endcsname\@thefnmark}%
12715 \color@begingroup
12716 \@threecolRTLfootfmt{#1}%
12717 \color@endgroup}\m@mmf@prepare}
12718 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12719 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12720 \global\setbox\@mpfootinsv@r\vbox{%
12721 \unvbox\@mpfootinsv@r
12722 \RTLtrue
12723 \def\baselinestretch{\m@m@footnote@spacing}%
12724 \reset@font\RTLfoottextfont
12725 \hsize\columnwidth \@parboxrestore
12726 \protected@edef\@currentlabel{%
12727 \csname p@mpfootnote\endcsname\@thefnmark}%
12728 \color@begingroup
12729 \@threecolRTLfootfmt{#1}%
12730 \color@endgroup}\m@mmf@prepare}
12731 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12732 \@namedef{@threecol@footgroup#1}{%
12733 \def\baselinestretch{\m@m@footnote@spacing}%
12734 \hsize\bidi@columnwidth
12735 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12736 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12737 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12738 \@namedef{@threecol@LTRfootgroup#1}{%
12739 \def\baselinestretch{\m@m@footnote@spacing}%
12740 \hsize\bidi@columnwidth
12741 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12742 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12743 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12744 \@namedef{@mpthreecol@footgroup#1}{%
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12747 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12748 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12749 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12750 \def\baselinestretch{\m@m@footnote@spacing}%
12751 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12752 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}}
12753 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12754 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12755 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12756 \@bidi@before@Hy@hyperfootnotes
12757 \let\@footnotetext\@fourcolfootnotetext
12758 \let\@LTRfootnotetext\@fourcolLTRfootnotetext

```



```

12759 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12760 \dimen\footinsv@r=4\footinsdim
12761 \count\footinsv@r=250\relax
12762 \m@make@fourcol@footgroup{v@r}%
12763 \let\@footgroupv@r\@fourcol@footgroupv@r
12764 \dimen\footinsv@l=4\footinsdim
12765 \count\footinsv@l=250\relax
12766 \bidi@make@fourcol@LTRfootgroup{v@l}%
12767 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12768 \let\@mpfootnotetext\@mpfourcolfootnotetext
12769 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12770 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12771 \@bidi@after@Hy@hyperfootnotes
12772 \m@make@mpfourcol@footgroup{v@r}%
12773 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12774 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12775 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12776 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12777 }
12778 \newcommand{\FourColumnFootnotes}{%
12779 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12780 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12781 \@bidi@before@Hy@hyperfootnotes
12782 \let\@footnotetext\@FourColfootnotetext
12783 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12784 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12785 \dimen\footinsv@r=4\footinsdim
12786 \count\footinsv@r=250\relax
12787 \m@make@fourcol@footgroup{v@r}%
12788 \let\@footgroupv@r\@fourcol@footgroupv@r
12789 \dimen\footinsv@l=4\footinsdim
12790 \count\footinsv@l=250\relax
12791 \bidi@make@fourcol@LTRfootgroup{v@l}%
12792 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12793 \let\@mpfootnotetext\@mpFourColfootnotetext
12794 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12795 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12796 \@bidi@after@Hy@hyperfootnotes
12797 \m@make@mpfourcol@footgroup{v@r}%
12798 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12799 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12800 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12801 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12802 }
12803 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12804 \if@RTL@footnote
12805 \footinsv@r
12806 \else
12807 \footinsv@l
12808 \fi
12809 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12810 \def\baselinestretch{\m@footnote@spacing}%
12811 \reset@font\foottextfont
12812 \@preamfntext

```



```

12813 \protected@edef\@currentlabel{%
12814   \csname p@footnote\endcsname\@thefnmark}%
12815 \color@begingroup
12816   \@fourcolfootfmt{#1}%
12817 \color@endgroup}%
12818 \m@mmf@prepare}
12819 \newcommand{\@FourColfootnotetext}[1]{%
12820 \bidi@step@absolute@footnote@count
12821 \if@RTL@footnote
12822   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12823 \else
12824   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12825 \fi
12826 \global\setbox
12827 \if@RTL@footnote
12828   \footinsv@r
12829 \else
12830   \footinsv@l
12831 \fi
12832 \vbox{%
12833 \unvbox
12834 \if@RTL@footnote
12835   \footinsv@r
12836 \else
12837   \footinsv@l
12838 \fi
12839 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12840 \def\baselinestretch{\m@m@footnote@spacing}%
12841 \reset@font\foottextfont
12842 \@preamfntext
12843 \protected@edef\@currentlabel{%
12844   \csname p@footnote\endcsname\@thefnmark}%
12845 \color@begingroup
12846   \@fourcolfootfmt{#1}%
12847 \color@endgroup}%
12848 \m@mmf@prepare
12849 \if@RTL@footnote
12850   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12851 \else
12852   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12853 \fi
12854 }
12855 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12856 \def\baselinestretch{\m@m@footnote@spacing}%
12857 \reset@font\LTRfoottextfont
12858 \@preamfntext
12859 \protected@edef\@currentlabel{%
12860   \csname p@footnote\endcsname\@thefnmark}%
12861 \color@begingroup
12862   \@fourcolLTRfootfmt{#1}%
12863 \color@endgroup}%
12864 \m@mmf@prepare}
12865 \newcommand{\@FourColLTRfootnotetext}[1]{%
12866 \bidi@step@absolute@footnote@count

```




```

12867 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12868 \global\setbox\footinsv@l\vbox{%
12869 \unvbox\footinsv@l
12870 \RTLfalse%
12871 \def\baselinestretch{\m@m@footnote@spacing}%
12872 \reset@font\LTRfoottextfont
12873 \@preamfntext
12874 \protected@edef\@currentlabel{%
12875   \csname p@footnote\endcsname\@thefnmark}%
12876 \color@begingroup
12877   \@fourcolLTRfootfmt{#1}%
12878 \color@endgroup}%
12879 \m@mmf@prepare
12880 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12881 }
12882 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12883 \def\baselinestretch{\m@m@footnote@spacing}%
12884 \reset@font\RTLfoottextfont
12885 \@preamfntext
12886 \protected@edef\@currentlabel{%
12887   \csname p@footnote\endcsname\@thefnmark}%
12888 \color@begingroup
12889   \@fourcolRTLfootfmt{#1}%
12890 \color@endgroup}%
12891 \m@mmf@prepare}
12892 \newcommand{\@FourColRTLfootnotetext}[1]{%
12893 \bidi@step@absolutefootnote@count
12894 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12895 \global\setbox\footinsv@r\vbox{%
12896 \unvbox\footinsv@r
12897 \RTLtrue
12898 \def\baselinestretch{\m@m@footnote@spacing}%
12899 \reset@font\RTLfoottextfont
12900 \@preamfntext
12901 \protected@edef\@currentlabel{%
12902   \csname p@footnote\endcsname\@thefnmark}%
12903 \color@begingroup
12904   \@fourcolRTLfootfmt{#1}%
12905 \color@endgroup}%
12906 \m@mmf@prepare
12907 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12908 }
12909 \bidi@ensure@newcommand{\@preamfourfmt}{%
12910 \hsize .25\hsize
12911 \parindent=\z@
12912 \tolerance=5000\relax
12913 \leavevmode}
12914 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12915 \@preamfourfmt
12916 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12917 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12918 \@preamfourfmt
12919 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12920 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%

```



```

12921 \@preamfourfmt
12922 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12923 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12924   \global\setbox
12925     \if@RTL@footnote
12926     \@mpfootinsv@r
12927   \else
12928     \@mpfootinsv@l
12929   \fi
12930   \vbox{%
12931     \unvbox
12932     \if@RTL@footnote
12933     \@mpfootinsv@r
12934   \else
12935     \@mpfootinsv@l
12936   \fi
12937   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12938   \def\baselinestretch{\m@m@footnote@spacing}%
12939   \reset@font\foottextfont
12940   \hsize\columnwidth \@parboxrestore
12941   \protected@edef\@currentlabel{%
12942     \csname p@mpfootnote\endcsname\@thefnmark}%
12943   \color@begingroup
12944     \@fourcolfootfmt{#1}%
12945   \color@endgroup}%
12946   \m@mmf@prepare}
12947 \newcommand{\@mpFourColfootnotetext}[1]{%
12948   \if@RTL@footnote
12949     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12950   \else
12951     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12952   \fi
12953   \global\setbox
12954     \if@RTL@footnote
12955     \@mpfootinsv@r
12956   \else
12957     \@mpfootinsv@l
12958   \fi
12959   \vbox{%
12960     \unvbox
12961     \if@RTL@footnote
12962     \@mpfootinsv@r
12963   \else
12964     \@mpfootinsv@l
12965   \fi
12966   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12967   \def\baselinestretch{\m@m@footnote@spacing}%
12968   \reset@font\foottextfont
12969   \hsize\columnwidth \@parboxrestore
12970   \protected@edef\@currentlabel{%
12971     \csname p@mpfootnote\endcsname\@thefnmark}%
12972   \color@begingroup
12973     \@fourcolfootfmt{#1}%
12974   \color@endgroup}%

```



```

12975 \m@mmf@prepare}
12976 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12977 \global\setbox\@mpfootinsv@l\vbox{%
12978 \unvbox\@mpfootinsv@l
12979 \RTLfalse
12980 \def\baselinestretch{\m@m@footnote@spacing}%
12981 \reset@font\LTRfoottextfont
12982 \hsize\columnwidth \@parboxrestore
12983 \protected@edef\@currentlabel{%
12984 \csname p@mpfootnote\endcsname\@thefnmark}%
12985 \color@begingroup
12986 \@fourcolLTRfootfmt{#1}%
12987 \color@endgroup}%
12988 \m@mmf@prepare}
12989 \newcommand{\@mpFourCollTRfootnotetext}[1]{%
12990 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12991 \global\setbox\@mpfootinsv@l\vbox{%
12992 \unvbox\@mpfootinsv@l
12993 \RTLfalse
12994 \def\baselinestretch{\m@m@footnote@spacing}%
12995 \reset@font\LTRfoottextfont
12996 \hsize\columnwidth \@parboxrestore
12997 \protected@edef\@currentlabel{%
12998 \csname p@mpfootnote\endcsname\@thefnmark}%
12999 \color@begingroup
13000 \@fourcolLTRfootfmt{#1}%
13001 \color@endgroup}%
13002 \m@mmf@prepare}
13003 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
13004 \global\setbox\@mpfootinsv@r\vbox{%
13005 \unvbox\@mpfootinsv@r
13006 \RTLtrue
13007 \def\baselinestretch{\m@m@footnote@spacing}%
13008 \reset@font\RTLfoottextfont
13009 \hsize\columnwidth \@parboxrestore
13010 \protected@edef\@currentlabel{%
13011 \csname p@mpfootnote\endcsname\@thefnmark}%
13012 \color@begingroup
13013 \@fourcolRTLfootfmt{#1}%
13014 \color@endgroup}%
13015 \m@mmf@prepare}
13016 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
13017 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13018 \global\setbox\@mpfootinsv@r\vbox{%
13019 \unvbox\@mpfootinsv@r
13020 \RTLtrue
13021 \def\baselinestretch{\m@m@footnote@spacing}%
13022 \reset@font\RTLfoottextfont
13023 \hsize\columnwidth \@parboxrestore
13024 \protected@edef\@currentlabel{%
13025 \csname p@mpfootnote\endcsname\@thefnmark}%
13026 \color@begingroup
13027 \@fourcolRTLfootfmt{#1}%
13028 \color@endgroup}%

```



```

13029 \m@mmf@prepare}
13030 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13031 \@namedef{@fourcol@footgroup#1}{%
13032 \def\baselinestretch{\m@m@footnote@spacing}%
13033 \hsize\bidi@columnwidth
13034 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13035 \m@r@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
13036 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13037 \@namedef{@fourcol@LTRfootgroup#1}{%
13038 \def\baselinestretch{\m@m@footnote@spacing}%
13039 \hsize\bidi@columnwidth
13040 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13041 \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
13042 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13043 \@namedef{@mpfourcol@footgroup#1}{%
13044 \def\baselinestretch{\m@m@footnote@spacing}%
13045 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13046 \m@r@rigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}
13047 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13048 \@namedef{@mpfourcol@LTRfootgroup#1}{%
13049 \def\baselinestretch{\m@m@footnote@spacing}%
13050 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13051 \bidi@LTR@rigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}
13052 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13053 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13054 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13055 \@bidi@before@Hy@hyperfootnotes
13056 \let\@footnotetext\@fivecolfootnotetext
13057 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13058 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13059 \dimen\footinsv@r=5\footinsdim
13060 \count\footinsv@r=200\relax
13061 \m@make@fivecol@footgroup{v@r}%
13062 \let\@footgroupv@r\@fivecol@footgroupv@r
13063 \dimen\footinsv@l=5\footinsdim
13064 \count\footinsv@l=200\relax
13065 \bidi@make@fivecol@LTRfootgroup{v@l}%
13066 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13067 \let\@mpfootnotetext\@mpfivecolfootnotetext
13068 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13069 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13070 \@bidi@after@Hy@hyperfootnotes
13071 \m@make@mpfivecol@footgroup{v@r}%
13072 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13073 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13074 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13075 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13076 }
13077 \newcommand{\FiveColumnFootnotes}{%
13078 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13079 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13080 \@bidi@before@Hy@hyperfootnotes
13081 \let\@footnotetext\@FiveColfootnotetext
13082 \let\@LTRfootnotetext\@FiveCollTRfootnotetext

```



```

13083 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13084 \dimen\footinsv@r=5\footinsdim
13085 \count\footinsv@r=200\relax
13086 \m@make@fivecol@footgroup{v@r}%
13087 \let\@footgroupv@r\@fivecol@footgroupv@r
13088 \dimen\footinsv@l=5\footinsdim
13089 \count\footinsv@l=200\relax
13090 \bidi@make@fivecol@LTRfootgroup{v@l}%
13091 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13092 \let\@mpfootnotetext\@mpFiveColfootnotetext
13093 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13094 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13095 \@bidi@after@Hy@hyperfootnotes
13096 \m@make@mpfivecol@footgroup{v@r}%
13097 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13098 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13099 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13100 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13101 }
13102 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13103 \ifRTL@footnote
13104 \footinsv@r
13105 \else
13106 \footinsv@l
13107 \fi
13108 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13109 \def\baselinestretch{\m@m@footnote@spacing}%
13110 \reset@font\foottextfont
13111 \@preamfntext
13112 \protected@edef\@currentlabel{%
13113 \csname p@footnote\endcsname\@thefnmark}%
13114 \color@begingroup
13115 \@fivecolfootfmt{#1}%
13116 \color@endgroup}%
13117 \m@mmf@prepare}
13118 \newcommand{\@FiveColfootnotetext}[1]{%
13119 \bidi@step@absolute@footnote@count
13120 \ifRTL@footnote
13121 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13122 \else
13123 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13124 \fi
13125 \global\setbox
13126 \ifRTL@footnote
13127 \footinsv@r
13128 \else
13129 \footinsv@l
13130 \fi
13131 \vbox{%
13132 \unvbox
13133 \ifRTL@footnote
13134 \footinsv@r
13135 \else
13136 \footinsv@l

```



```

13137 \fi
13138 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\foottextfont
13141 \@premfntext
13142 \protected@edef\@currentlabel{%
13143   \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145   \@fivecolfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@mmf@prepare
13148 \ifRTL@footnote
13149   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13150 \else
13151   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13152 \fi
13153 }
13154 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13155 \def\baselinestretch{\m@m@footnote@spacing}%
13156 \reset@font\LTRfoottextfont
13157 \@premfntext
13158 \protected@edef\@currentlabel{%
13159   \csname p@footnote\endcsname\@thefnmark}%
13160 \color@begingroup
13161   \@fivecolLTRfootfmt{#1}%
13162 \color@endgroup}%
13163 \m@mmf@prepare}
13164 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13165 \bidi@step@absolute@footnote@count
13166 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13167 \global\setbox\footinsv@l\vbox{%
13168 \unvbox\footinsv@l
13169 \@RTLfalse
13170 \def\baselinestretch{\m@m@footnote@spacing}%
13171 \reset@font\LTRfoottextfont
13172 \@premfntext
13173 \protected@edef\@currentlabel{%
13174   \csname p@footnote\endcsname\@thefnmark}%
13175 \color@begingroup
13176   \@fivecolLTRfootfmt{#1}%
13177 \color@endgroup}%
13178 \m@mmf@prepare
13179 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13180 }
13181 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13182 \def\baselinestretch{\m@m@footnote@spacing}%
13183 \reset@font\RTLfoottextfont
13184 \@premfntext
13185 \protected@edef\@currentlabel{%
13186   \csname p@footnote\endcsname\@thefnmark}%
13187 \color@begingroup
13188   \@fivecolRTLfootfmt{#1}%
13189 \color@endgroup}%
13190 \m@mmf@prepare}

```



```

13191 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13192   \bidi@step@absolutefootnote@count
13193   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13194   \global\setbox\footinsv@r\vbox{%
13195     \unvbox\footinsv@r
13196     \RTLtrue
13197     \def\baselinestretch{\m@m@footnote@spacing}%
13198     \reset@font\RTLfoottextfont
13199     \@preamfntext
13200     \protected@edef\@currentlabel{%
13201       \csname p@footnote\endcsname\@thefnmark}%
13202     \color@begingroup
13203       \@fivecolRTLfootfmt{#1}%
13204     \color@endgroup}%
13205     \m@mmf@prepare
13206     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13207 }
13208 \bidi@ensure@newcommand{\@preamfivefmt}{%
13209   \hsize .2\hsize
13210   \parindent=\z@
13211   \tolerance=5000\relax
13212   \leavevmode}
13213 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13214   \@preamfivefmt
13215   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13216 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13217   \@preamfivefmt
13218   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13219 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13220   \@preamfivefmt
13221   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13222 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13223   \global\setbox
13224     \if@RTL@footnote
13225     \@mpfootinsv@r
13226   \else
13227     \@mpfootinsv@l
13228   \fi
13229   \vbox{%
13230     \unvbox
13231     \if@RTL@footnote
13232     \@mpfootinsv@r
13233   \else
13234     \@mpfootinsv@l
13235   \fi
13236   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13237   \def\baselinestretch{\m@m@footnote@spacing}%
13238   \reset@font\foottextfont
13239   \hsize\columnwidth \@parboxrestore
13240   \protected@edef\@currentlabel{%
13241     \csname p@mpfootnote\endcsname\@thefnmark}%
13242   \color@begingroup
13243     \@fivecolfootfmt{#1}%
13244   \color@endgroup}%

```



```

13245 \m@mmf@prepare}
13246 \newcommand{\@mpFiveColfootnotetext}[1]{%
13247   \if@RTL@footnote
13248     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13249   \else
13250     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13251   \fi
13252   \global\setbox
13253     \if@RTL@footnote
13254     \@mpfootinsv@r
13255   \else
13256     \@mpfootinsv@l
13257   \fi
13258   \vbox{%
13259     \unvbox
13260     \if@RTL@footnote
13261     \@mpfootinsv@r
13262   \else
13263     \@mpfootinsv@l
13264   \fi
13265   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13266   \def\baselinestretch{\m@m@footnote@spacing}%
13267   \reset@font\foottextfont
13268   \hsize\columnwidth \@parboxrestore
13269   \protected@edef\@currentlabel{%
13270     \csname p@mpfootnote\endcsname\@thefnmark}%
13271   \color@begingroup
13272     \@fivecolfootfmt{#1}%
13273   \color@endgroup}%
13274   \m@mmf@prepare}
13275 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13276   \global\setbox\@mpfootinsv@l\vbox{%
13277     \unvbox\@mpfootinsv@l
13278     \@RTLfalse
13279     \def\baselinestretch{\m@m@footnote@spacing}%
13280     \reset@font\LTRfoottextfont
13281     \hsize\columnwidth \@parboxrestore
13282     \protected@edef\@currentlabel{%
13283       \csname p@mpfootnote\endcsname\@thefnmark}%
13284     \color@begingroup
13285       \@fivecolLTRfootfmt{#1}%
13286     \color@endgroup}%
13287   \m@mmf@prepare}
13288 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13289   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13290   \global\setbox\@mpfootinsv@l\vbox{%
13291     \unvbox\@mpfootinsv@l
13292     \@RTLfalse
13293     \def\baselinestretch{\m@m@footnote@spacing}%
13294     \reset@font\LTRfoottextfont
13295     \hsize\columnwidth \@parboxrestore
13296     \protected@edef\@currentlabel{%
13297       \csname p@mpfootnote\endcsname\@thefnmark}%
13298   \color@begingroup

```




```

13299   \@fivecolLTRfootfmt{#1}%
13300   \color@endgroup}%
13301   \m@mmf@prepare}
13302 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13303   \global\setbox\@mpfootinsv@r\vbox{%
13304     \unvbox\@mpfootinsv@r
13305     \RTLtrue
13306     \def\baselinestretch{\m@m@footnote@spacing}%
13307     \reset@font\RTLfoottextfont
13308     \hsize\columnwidth \@parboxrestore
13309     \protected@edef\@currentlabel{%
13310       \csname p@mpfootnote@endcsname\@thefnmark}%
13311   \color@begingroup
13312     \@fivecolRTLfootfmt{#1}%
13313   \color@endgroup}%
13314   \m@mmf@prepare}
13315 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13316   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13317   \global\setbox\@mpfootinsv@r\vbox{%
13318     \unvbox\@mpfootinsv@r
13319     \RTLtrue
13320     \def\baselinestretch{\m@m@footnote@spacing}%
13321     \reset@font\RTLfoottextfont
13322     \hsize\columnwidth \@parboxrestore
13323     \protected@edef\@currentlabel{%
13324       \csname p@mpfootnote@endcsname\@thefnmark}%
13325   \color@begingroup
13326     \@fivecolRTLfootfmt{#1}%
13327   \color@endgroup}%
13328   \m@mmf@prepare}
13329 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13330   \@namedef{@fivecol@footgroup#1}{%
13331     \def\baselinestretch{\m@m@footnote@spacing}%
13332     \hsize\bidi@columnwidth
13333     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13334     \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13335 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13336   \@namedef{@fivecol@LTRfootgroup#1}{%
13337     \def\baselinestretch{\m@m@footnote@spacing}%
13338     \hsize\bidi@columnwidth
13339     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13340     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13341 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13342   \@namedef{@mpfivecol@footgroup#1}{%
13343     \def\baselinestretch{\m@m@footnote@spacing}%
13344     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13345     \m@mrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
13346 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13347   \@namedef{@mpfivecol@LTRfootgroup#1}{%
13348     \def\baselinestretch{\m@m@footnote@spacing}%
13349     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13350     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
13351 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13352   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

13353 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
13354 \@bidi@before@Hy@hyperfootnotes
13355 \let@footnotetext@sixcolfootnotetext
13356 \let@LTRfootnotetext@sixcolLTRfootnotetext
13357 \let@RTLfootnotetext@sixcolRTLfootnotetext
13358 \dimen\footinsv@r=6\footinsdim
13359 \count\footinsv@r=166\relax
13360 \m@make@sixcol@footgroup{v@r}%
13361 \let@footgroupv@r@sixcol@footgroupv@r
13362 \dimen\footinsv@l=6\footinsdim
13363 \count\footinsv@l=166\relax
13364 \bidi@make@sixcol@LTRfootgroup{v@l}%
13365 \let@LTRfootgroupv@l@sixcol@LTRfootgroupv@l
13366 \let@mpfootnotetext@mpsixcolfootnotetext
13367 \let@mpLTRfootnotetext@mpsixcolLTRfootnotetext
13368 \let@mpRTLfootnotetext@mpsixcolRTLfootnotetext
13369 \@bidi@after@Hy@hyperfootnotes
13370 \m@make@mpsixcol@footgroup{v@r}%
13371 \let@mp@footgroupv@r@mpsixcol@footgroupv@r
13372 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13373 \let@mp@LTRfootgroupv@l@mpsixcol@LTRfootgroupv@l
13374 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13375 }
13376 \newcommand{\SixColumnFootnotes}{%
13377 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13378 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13379 \@bidi@before@Hy@hyperfootnotes
13380 \let@footnotetext@SixColfootnotetext
13381 \let@LTRfootnotetext@SixColLTRfootnotetext
13382 \let@RTLfootnotetext@SixColRTLfootnotetext
13383 \dimen\footinsv@r=6\footinsdim
13384 \count\footinsv@r=166\relax
13385 \m@make@sixcol@footgroup{v@r}%
13386 \let@footgroupv@r@sixcol@footgroupv@r
13387 \dimen\footinsv@l=6\footinsdim
13388 \count\footinsv@l=166\relax
13389 \bidi@make@sixcol@LTRfootgroup{v@l}%
13390 \let@LTRfootgroupv@l@sixcol@LTRfootgroupv@l
13391 \let@mpfootnotetext@mpSixColfootnotetext
13392 \let@mpLTRfootnotetext@mpSixColLTRfootnotetext
13393 \let@mpRTLfootnotetext@mpSixColRTLfootnotetext
13394 \@bidi@after@Hy@hyperfootnotes
13395 \m@make@mpsixcol@footgroup{v@r}%
13396 \let@mp@footgroupv@r@mpsixcol@footgroupv@r
13397 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13398 \let@mp@LTRfootgroupv@l@mpsixcol@LTRfootgroupv@l
13399 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13400 }
13401 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13402 \if@RTL@footnote
13403 \footinsv@r
13404 \else
13405 \footinsv@l
13406 \fi

```



```

13407 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13408 \def\baselinestretch{\m@m@footnote@spacing}%
13409 \reset@font\foottextfont
13410 \@preamfntext
13411 \protected@edef\@currentlabel{%
13412 \csname p@footnote\endcsname\@thefnmark}%
13413 \color@begingroup
13414 \@sixcolfootfmt{#1}%
13415 \color@endgroup}%
13416 \m@mmf@prepare}
13417 \newcommand{\@SixColfootnotetext}[1]{%
13418 \bidi@step@absolute@footnote@count
13419 \ifRTL@footnote
13420 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13421 \else
13422 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13423 \fi
13424 \global\setbox
13425 \ifRTL@footnote
13426 \footinsv@r
13427 \else
13428 \footinsv@l
13429 \fi
13430 \vbox{%
13431 \unvbox
13432 \ifRTL@footnote
13433 \footinsv@r
13434 \else
13435 \footinsv@l
13436 \fi
13437 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13438 \def\baselinestretch{\m@m@footnote@spacing}%
13439 \reset@font\foottextfont
13440 \@preamfntext
13441 \protected@edef\@currentlabel{%
13442 \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444 \@sixcolfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mmf@prepare
13447 \ifRTL@footnote
13448 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13449 \else
13450 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13451 \fi
13452 }
13453 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13454 \def\baselinestretch{\m@m@footnote@spacing}%
13455 \reset@font\LTRfoottextfont
13456 \@preamfntext
13457 \protected@edef\@currentlabel{%
13458 \csname p@footnote\endcsname\@thefnmark}%
13459 \color@begingroup
13460 \@sixcolLTRfootfmt{#1}%

```



```

13461 \color@endgroup}%
13462 \m@mmf@prepare}
13463 \newcommand{\@SixColLTRfootnotetext}[1]{%
13464 \bidi@step@absolute@footnote@count
13465 \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
13466 \global\setbox\footinsv@l\vbox{%
13467 \unvbox\footinsv@l
13468 \@RTLfalse
13469 \def\baselinestretch{\m@mm@footnote@spacing}%
13470 \reset@font\LTRfoottextfont
13471 \@preamfntext
13472 \protected@edef\@currentlabel{%
13473 \csname p@footnote\endcsname\@thefnmark}%
13474 \color@begingroup
13475 \@sixcolLTRfootfmt{#1}%
13476 \color@endgroup}%
13477 \m@mmf@prepare
13478 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13479 }
13480 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13481 \def\baselinestretch{\m@mm@footnote@spacing}%
13482 \reset@font\RTLfoottextfont
13483 \@preamfntext
13484 \protected@edef\@currentlabel{%
13485 \csname p@footnote\endcsname\@thefnmark}%
13486 \color@begingroup
13487 \@sixcolRTLfootfmt{#1}%
13488 \color@endgroup}%
13489 \m@mmf@prepare}
13490 \newcommand{\@SixColRTLfootnotetext}[1]{%
13491 \bidi@step@absolute@footnote@count
13492 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13493 \global\setbox\footinsv@r\vbox{%
13494 \unvbox\footinsv@r
13495 \@RTLtrue
13496 \def\baselinestretch{\m@mm@footnote@spacing}%
13497 \reset@font\RTLfoottextfont
13498 \@preamfntext
13499 \protected@edef\@currentlabel{%
13500 \csname p@footnote\endcsname\@thefnmark}%
13501 \color@begingroup
13502 \@sixcolRTLfootfmt{#1}%
13503 \color@endgroup}%
13504 \m@mmf@prepare
13505 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13506 }
13507 \bidi@ensure@newcommand{\@preamsixfmt}{%
13508 \hspace .16\hspace
13509 \parindent=\z@
13510 \tolerance=5000\relax
13511 \leavevmode}
13512 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13513 \@preamsixfmt
13514 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}

```



```

13515 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13516   \@preamsixfmt
13517   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13518 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13519   \@preamsixfmt
13520   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13521 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13522   \global\setbox
13523     \if@RTL@footnote
13524     \@mpfootinsv@r
13525   \else
13526     \@mpfootinsv@l
13527   \fi
13528   \vbox{%
13529     \unvbox
13530     \if@RTL@footnote
13531     \@mpfootinsv@r
13532   \else
13533     \@mpfootinsv@l
13534   \fi
13535   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13536   \def\baselinestretch{\m@m@footnote@spacing}%
13537   \reset@font\foottextfont
13538   \hsize\columnwidth \@parboxrestore
13539   \protected@edef\@currentlabel{%
13540     \csname p@mpfootnote\endcsname\@thefnmark}%
13541   \color@begingroup
13542     \@sixcolfootfmt{#1}%
13543   \color@endgroup}%
13544   \m@mmf@prepare}
13545 \newcommand{\@mpSixColfootnotetext}[1]{%
13546   \if@RTL@footnote
13547   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13548 \else
13549   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13550 \fi
13551 \global\setbox
13552   \if@RTL@footnote
13553   \@mpfootinsv@r
13554 \else
13555   \@mpfootinsv@l
13556 \fi
13557 \vbox{%
13558   \unvbox
13559   \if@RTL@footnote
13560   \@mpfootinsv@r
13561 \else
13562   \@mpfootinsv@l
13563 \fi
13564   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13565   \def\baselinestretch{\m@m@footnote@spacing}%
13566   \reset@font\foottextfont
13567   \hsize\columnwidth \@parboxrestore
13568   \protected@edef\@currentlabel{%

```



```

13569     \csname p@mpfootnote\endcsname\@thefnmark}%
13570 \color@begingroup
13571     \@sixcolfootfmt{#1}%
13572 \color@endgroup}%
13573 \m@mmf@prepare}
13574 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13575 \global\setbox\@mpfootinsv@l\vbox{%
13576     \unvbox\@mpfootinsv@l
13577     \@RTLfalse
13578     \def\baselinestretch{\m@m@footnote@spacing}%
13579     \reset@font\LTRfoottextfont
13580     \hsize\columnwidth \@parboxrestore
13581     \protected@edef\@currentlabel{%
13582         \csname p@mpfootnote\endcsname\@thefnmark}%
13583 \color@begingroup
13584     \@sixcolLTRfootfmt{#1}%
13585 \color@endgroup}%
13586 \m@mmf@prepare}
13587 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13588 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13589 \global\setbox\@mpfootinsv@l\vbox{%
13590     \unvbox\@mpfootinsv@l
13591     \@RTLfalse
13592     \def\baselinestretch{\m@m@footnote@spacing}%
13593     \reset@font\LTRfoottextfont
13594     \hsize\columnwidth \@parboxrestore
13595     \protected@edef\@currentlabel{%
13596         \csname p@mpfootnote\endcsname\@thefnmark}%
13597 \color@begingroup
13598     \@sixcolLTRfootfmt{#1}%
13599 \color@endgroup}%
13600 \m@mmf@prepare}
13601 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13602 \global\setbox\@mpfootinsv@r\vbox{%
13603     \unvbox\@mpfootinsv@r
13604     \@RTLtrue
13605     \def\baselinestretch{\m@m@footnote@spacing}%
13606     \reset@font\RTLfoottextfont
13607     \hsize\columnwidth \@parboxrestore
13608     \protected@edef\@currentlabel{%
13609         \csname p@mpfootnote\endcsname\@thefnmark}%
13610 \color@begingroup
13611     \@sixcolRTLfootfmt{#1}%
13612 \color@endgroup}%
13613 \m@mmf@prepare}
13614 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13615 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13616 \global\setbox\@mpfootinsv@r\vbox{%
13617     \unvbox\@mpfootinsv@r
13618     \@RTLtrue
13619     \def\baselinestretch{\m@m@footnote@spacing}%
13620     \reset@font\RTLfoottextfont
13621     \hsize\columnwidth \@parboxrestore
13622     \protected@edef\@currentlabel{%

```



```

13623     \csname p@mpfootnote\endcsname\@thefnmark}%
13624 \color@begingroup
13625     \@sixcolRTLfootfmt{#1}%
13626 \color@endgroup}%
13627 \m@mmf@prepare}
13628 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13629   \@namedef{@sixcol@footgroup#1}{%
13630     \def\baselinestretch{\m@m@footnote@spacing}%
13631     \hsize\bidi@columnwidth
13632     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13633     \m@rrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13634 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13635   \@namedef{@sixcol@LTRfootgroup#1}{%
13636     \def\baselinestretch{\m@m@footnote@spacing}%
13637     \hsize\bidi@columnwidth
13638     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13639     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13640 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13641   \@namedef{@mpsixcol@footgroup#1}{%
13642     \def\baselinestretch{\m@m@footnote@spacing}%
13643     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13644     \m@rrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
13645 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13646   \@namedef{@mpsixcol@LTRfootgroup#1}{%
13647     \def\baselinestretch{\m@m@footnote@spacing}%
13648     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13649     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
13650 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13651   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13652   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13653   \@bidi@before@Hy@hyperfootnotes
13654   \let\@footnotetext\@sevendcolfootnotetext
13655   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
13656   \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
13657   \dimen\footinsv@r=7\footinsdim
13658   \count\footinsv@r=142\relax
13659   \m@make@sevendcol@footgroup{v@r}%
13660   \let\@footgroupv@r\@sevendcol@footgroupv@r
13661   \dimen\footinsv@l=7\footinsdim
13662   \count\footinsv@l=142\relax
13663   \bidi@make@sevendcol@LTRfootgroup{v@l}%
13664   \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
13665   \let\@mpfootnotetext\@mpsevendcolfootnotetext
13666   \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
13667   \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
13668   \@bidi@after@Hy@hyperfootnotes
13669   \m@make@mpsevendcol@footgroup{v@r}%
13670   \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
13671   \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13672   \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
13673   \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13674 }
13675 \newcommand{\SevenColumnFootnotes}{%
13676   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

13677 \@namedef{foottextfontv@1}{\LTRfoottextfont}%
13678 \@bidi@before@Hy@hyperfootnotes
13679 \let\@footnotetext\@SevenColfootnotetext
13680 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13681 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13682 \dimen\footinsv@r=7\footinsdim
13683 \count\footinsv@r=142\relax
13684 \m@make@sevencol@footgroup{v@r}%
13685 \let\@footgroupv@r\@sevencol@footgroupv@r
13686 \dimen\footinsv@l=7\footinsdim
13687 \count\footinsv@l=142\relax
13688 \bidi@make@sevencol@LTRfootgroup{v@l}%
13689 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13690 \let\@mpfootnotetext\@mpSevenColfootnotetext
13691 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13692 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13693 \@bidi@after@Hy@hyperfootnotes
13694 \m@make@mpsevencol@footgroup{v@r}%
13695 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13696 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13697 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13698 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13699 }
13700 \bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert
13701 \if@RTL@footnote
13702 \footinsv@r
13703 \else
13704 \footinsv@l
13705 \fi
13706 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13707 \def\baselinestretch{\m@f@footnote@spacing}%
13708 \reset@font\foottextfont
13709 \@preamfntext
13710 \protected@edef\@currentlabel{%
13711 \csname p@footnote\endcsname\@thefnmark}%
13712 \color@begingroup
13713 \@sevencolfootfmt{#1}%
13714 \color@endgroup}%
13715 \m@mmf@prepare}
13716 \newcommand{\@SevenColfootnotetext}[1]{%
13717 \bidi@step@absolute@footnote@count
13718 \if@RTL@footnote
13719 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13720 \else
13721 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13722 \fi
13723 \global\setbox
13724 \if@RTL@footnote
13725 \footinsv@r
13726 \else
13727 \footinsv@l
13728 \fi
13729 \vbox{%
13730 \unvbox

```




```

13731 \if@RTL@footnote
13732   \footinsv@r
13733 \else
13734   \footinsv@l
13735 \fi
13736 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13737 \def\baselinestretch{\m@m@footnote@spacing}%
13738 \reset@font\foottextfont
13739 \@preamfntext
13740 \protected@edef\@currentlabel{%
13741   \csname p@footnote\endcsname\@thefnmark}%
13742 \color@begingroup
13743   \@sevenscolfootfmt{#1}%
13744 \color@endgroup}%
13745 \m@mmf@prepare
13746 \if@RTL@footnote
13747   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13748 \else
13749   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13750 \fi
13751 }
13752 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13753 \def\baselinestretch{\m@m@footnote@spacing}%
13754 \reset@font\LTRfoottextfont
13755 \@preamfntext
13756 \protected@edef\@currentlabel{%
13757   \csname p@footnote\endcsname\@thefnmark}%
13758 \color@begingroup
13759   \@sevenscolLTRfootfmt{#1}%
13760 \color@endgroup}%
13761 \m@mmf@prepare}
13762 \newcommand{\@SevenCollTRfootnotetext}[1]{%
13763 \bidi@step@absolute@footnote@count
13764 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13765 \global\setbox\footinsv@l\vbox{%
13766 \unvbox\footinsv@l
13767 \@RTLfalse
13768 \def\baselinestretch{\m@m@footnote@spacing}%
13769 \reset@font\LTRfoottextfont
13770 \@preamfntext
13771 \protected@edef\@currentlabel{%
13772   \csname p@footnote\endcsname\@thefnmark}%
13773 \color@begingroup
13774   \@sevenscolLTRfootfmt{#1}%
13775 \color@endgroup}%
13776 \m@mmf@prepare
13777 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13778 }
13779 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13780 \def\baselinestretch{\m@m@footnote@spacing}%
13781 \reset@font\RTLfoottextfont
13782 \@preamfntext
13783 \protected@edef\@currentlabel{%
13784   \csname p@footnote\endcsname\@thefnmark}%

```



```

13785 \color@begingroup
13786   \@sevenscolRTLfootfmt{#1}%
13787 \color@endgroup}%
13788 \m@mmf@prepare}
13789 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13790   \bidi@step@absolutefootnote@count
13791   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13792   \global\setbox\footinsv@r\vbox{%
13793     \unvbox\footinsv@r
13794     \@RTLtrue
13795     \def\baselinestretch{\m@m@footnote@spacing}%
13796     \reset@font\RTLfoottextfont
13797     \@preamfntext
13798     \protected@edef\@currentlabel{%
13799       \csname p@footnote\endcsname\@thefnmark}%
13800   \color@begingroup
13801     \@sevenscolRTLfootfmt{#1}%
13802   \color@endgroup}%
13803   \m@mmf@prepare
13804   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13805 }
13806 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13807   \hspace .142\hspace
13808   \parindent=\z@
13809   \tolerance=5000\relax
13810   \leavevmode}
13811 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
13812   \@preamsevenfmt
13813   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13814 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
13815   \@preamsevenfmt
13816   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13817 \bidi@ensure@newcommand{\@sevenscolRTLfootfmt}[1]{%
13818   \@preamsevenfmt
13819   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13820 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13821   \global\setbox
13822     \if@RTL@footnote
13823     \@mpfootinsv@r
13824   \else
13825     \@mpfootinsv@l
13826   \fi
13827   \vbox{%
13828     \unvbox
13829     \if@RTL@footnote
13830     \@mpfootinsv@r
13831   \else
13832     \@mpfootinsv@l
13833   \fi
13834   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13835   \def\baselinestretch{\m@m@footnote@spacing}%
13836   \reset@font\foottextfont
13837   \hspace\columnwidth \@parboxrestore
13838   \protected@edef\@currentlabel{%

```



```

13839     \csname p@mpfootnote\endcsname\@thefnmark}%
13840 \color@begingroup
13841   \@sevendcolfootfmt{#1}%
13842 \color@endgroup}%
13843 \m@mmf@prepare}
13844 \newcommand{\@mpSevenColfootnotetext}[1]{%
13845   \if@RTL@footnote
13846     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13847   \else
13848     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13849   \fi
13850 \global\setbox
13851   \if@RTL@footnote
13852     \@mpfootinsv@r
13853   \else
13854     \@mpfootinsv@l
13855   \fi
13856 \vbox{%
13857   \unvbox
13858   \if@RTL@footnote
13859     \@mpfootinsv@r
13860   \else
13861     \@mpfootinsv@l
13862   \fi
13863   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13864   \def\baselinestretch{\m@m@footnote@spacing}%
13865   \reset@font\foottextfont
13866   \hsize\columnwidth \@parboxrestore
13867   \protected@edef\@currentlabel{%
13868     \csname p@mpfootnote\endcsname\@thefnmark}%
13869 \color@begingroup
13870   \@sevendcolfootfmt{#1}%
13871 \color@endgroup}%
13872 \m@mmf@prepare}
13873 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{%
13874 \global\setbox\@mpfootinsv@l\vbox{%
13875   \unvbox\@mpfootinsv@l
13876   \@RTLfalse
13877   \def\baselinestretch{\m@m@footnote@spacing}%
13878   \reset@font\LTRfoottextfont
13879   \hsize\columnwidth \@parboxrestore
13880   \protected@edef\@currentlabel{%
13881     \csname p@mpfootnote\endcsname\@thefnmark}%
13882 \color@begingroup
13883   \@sevendcolLTRfootfmt{#1}%
13884 \color@endgroup}%
13885 \m@mmf@prepare}
13886 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13887   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13888 \global\setbox\@mpfootinsv@l\vbox{%
13889   \unvbox\@mpfootinsv@l
13890   \@RTLfalse
13891   \def\baselinestretch{\m@m@footnote@spacing}%
13892   \reset@font\LTRfoottextfont

```



```

13893 \hsize\columnwidth \@parboxrestore
13894 \protected@edef\@currentlabel{%
13895 \csname p@mpfootnote\endcsname\@thefnmark}%
13896 \color@begingroup
13897 \@sevenscolLTRfootfmt{#1}%
13898 \color@endgroup}%
13899 \m@mmf@prepare}
13900 \bidi@ensure@newcommand{\@mpsevenscolRTLfootnotetext}[1]{%
13901 \global\setbox\@mpfootinsv@r\vbox{%
13902 \unvbox\@mpfootinsv@r
13903 \@RTLtrue
13904 \def\baselinestretch{\m@m@footnote@spacing}%
13905 \reset@font\RTLfoottextfont
13906 \hsize\columnwidth \@parboxrestore
13907 \protected@edef\@currentlabel{%
13908 \csname p@mpfootnote\endcsname\@thefnmark}%
13909 \color@begingroup
13910 \@sevenscolRTLfootfmt{#1}%
13911 \color@endgroup}%
13912 \m@mmf@prepare}
13913 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13914 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13915 \global\setbox\@mpfootinsv@r\vbox{%
13916 \unvbox\@mpfootinsv@r
13917 \@RTLtrue
13918 \def\baselinestretch{\m@m@footnote@spacing}%
13919 \reset@font\RTLfoottextfont
13920 \hsize\columnwidth \@parboxrestore
13921 \protected@edef\@currentlabel{%
13922 \csname p@mpfootnote\endcsname\@thefnmark}%
13923 \color@begingroup
13924 \@sevenscolRTLfootfmt{#1}%
13925 \color@endgroup}%
13926 \m@mmf@prepare}
13927 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13928 \@namedef{@sevenscol@footgroup#1}{%
13929 \def\baselinestretch{\m@m@footnote@spacing}%
13930 \hsize\bidi@columnwidth
13931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13932 \m@r rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13933 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13934 \@namedef{@sevenscol@LTRfootgroup#1}{%
13935 \def\baselinestretch{\m@m@footnote@spacing}%
13936 \hsize\bidi@columnwidth
13937 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13938 \bidi@LTR rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13939 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
13940 \@namedef{@mpsevenscol@footgroup#1}{%
13941 \def\baselinestretch{\m@m@footnote@spacing}%
13942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13943 \m@r rigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}}
13944 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
13945 \@namedef{@mpsevenscol@LTRfootgroup#1}{%
13946 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13947 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13948 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}
13949 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13950 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13951 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13952 \@bidi@before@Hy@hyperfootnotes
13953 \let\@footnotetext\@eightcolfootnotetext
13954 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13955 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13956 \dimen\footinsv@r=8\footinsdim
13957 \count\footinsv@r=125\relax
13958 \m@make@eightcol@footgroup{v@r}%
13959 \let\@footgroupv@r\@eightcol@footgroupv@r
13960 \dimen\footinsv@l=8\footinsdim
13961 \count\footinsv@l=125\relax
13962 \bidi@make@eightcol@LTRfootgroup{v@l}%
13963 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13964 \let\@mpfootnotetext\@mpeightcolfootnotetext
13965 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13966 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13967 \@bidi@after@Hy@hyperfootnotes
13968 \m@make@mpeightcol@footgroup{v@r}%
13969 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13970 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13971 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13972 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13973 }
13974 \newcommand{\EightColumnFootnotes}{%
13975 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13976 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13977 \@bidi@before@Hy@hyperfootnotes
13978 \let\@footnotetext\@EightColfootnotetext
13979 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13980 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13981 \dimen\footinsv@r=8\footinsdim
13982 \count\footinsv@r=125\relax
13983 \m@make@eightcol@footgroup{v@r}%
13984 \let\@footgroupv@r\@eightcol@footgroupv@r
13985 \dimen\footinsv@l=8\footinsdim
13986 \count\footinsv@l=125\relax
13987 \bidi@make@eightcol@LTRfootgroup{v@l}%
13988 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13989 \let\@mpfootnotetext\@mpEightColfootnotetext
13990 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13991 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13992 \@bidi@after@Hy@hyperfootnotes
13993 \m@make@mpeightcol@footgroup{v@r}%
13994 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13995 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13996 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13997 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13998 }
13999 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
14000 \if@RTL@footnote

```



```

14001   \footinsv@r
14002   \else
14003     \footinsv@l
14004   \fi
14005 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14006   \def\baselinestretch{\m@m@footnote@spacing}%
14007   \reset@font\foottextfont
14008   \@preamfntext
14009   \protected@edef\@currentlabel{%
14010     \csname p@footnote\endcsname\@thefnmark}%
14011   \color@begingroup
14012     \@eightcolfootfmt{#1}%
14013   \color@endgroup}%
14014   \m@mmf@prepare}
14015 \newcommand{\@EightColFootnotetext}[1]{%
14016   \bidi@step@absolute@footnote@count
14017   \if@RTL@footnote
14018     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14019   \else
14020     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14021   \fi
14022   \global\setbox
14023   \if@RTL@footnote
14024     \footinsv@r
14025   \else
14026     \footinsv@l
14027   \fi
14028 \vbox{%
14029   \unvbox
14030   \if@RTL@footnote
14031     \footinsv@r
14032   \else
14033     \footinsv@l
14034   \fi
14035   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14036   \def\baselinestretch{\m@m@footnote@spacing}%
14037   \reset@font\foottextfont
14038   \@preamfntext
14039   \protected@edef\@currentlabel{%
14040     \csname p@footnote\endcsname\@thefnmark}%
14041   \color@begingroup
14042     \@eightcolfootfmt{#1}%
14043   \color@endgroup}%
14044   \m@mmf@prepare
14045   \if@RTL@footnote
14046     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14047   \else
14048     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14049   \fi
14050 }
14051 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14052   \def\baselinestretch{\m@m@footnote@spacing}%
14053   \reset@font\LTRfoottextfont
14054   \@preamfntext

```



```

14055 \protected@edef\@currentlabel{%
14056   \csname p@footnote\endcsname\@thefnmark}%
14057 \color@begingroup
14058   \@eightcolLTRfootfmt{#1}%
14059 \color@endgroup}%
14060 \m@mmf@prepare}
14061 \newcommand{\@EightColLTRfootnotetext}[1]{%
14062   \bidi@step@absolute@footnote@count
14063   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14064   \global\setbox\footinsv@l\vbox{%
14065     \unvbox\footinsv@l
14066     \@RTLfalse
14067     \def\baselinestretch{\m@m@footnote@spacing}%
14068     \reset@font\LTRfoottextfont
14069     \@preamftext
14070     \protected@edef\@currentlabel{%
14071       \csname p@footnote\endcsname\@thefnmark}%
14072     \color@begingroup
14073       \@eightcolLTRfootfmt{#1}%
14074     \color@endgroup}%
14075     \m@mmf@prepare
14076     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14077   }
14078 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14079   \def\baselinestretch{\m@m@footnote@spacing}%
14080   \reset@font\RTLfoottextfont
14081   \@preamftext
14082   \protected@edef\@currentlabel{%
14083     \csname p@footnote\endcsname\@thefnmark}%
14084   \color@begingroup
14085     \@eightcolRTLfootfmt{#1}%
14086   \color@endgroup}%
14087   \m@mmf@prepare}
14088 \newcommand{\@EightColRTLfootnotetext}[1]{%
14089   \bidi@step@absolute@footnote@count
14090   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14091   \global\setbox\footinsv@r\vbox{%
14092     \unvbox\footinsv@r
14093     \@RTLtrue%
14094     \def\baselinestretch{\m@m@footnote@spacing}%
14095     \reset@font\RTLfoottextfont
14096     \@preamftext
14097     \protected@edef\@currentlabel{%
14098       \csname p@footnote\endcsname\@thefnmark}%
14099     \color@begingroup
14100       \@eightcolRTLfootfmt{#1}%
14101     \color@endgroup}%
14102     \m@mmf@prepare
14103     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14104   }
14105 \bidi@ensure@newcommand{\@preameightfmt}{%
14106   \hspace .125\hspace
14107   \parindent=\z@
14108   \tolerance=5000\relax

```



```

14109 \leavevmode}
14110 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14111 \@preameightfmt
14112 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14113 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14114 \@preameightfmt
14115 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14116 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14117 \@preameightfmt
14118 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14119 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14120 \global\setbox
14121 \if@RTL@footnote
14122 \@mpfootinsv@r
14123 \else
14124 \@mpfootinsv@l
14125 \fi
14126 \vbox{%
14127 \unvbox
14128 \if@RTL@footnote
14129 \@mpfootinsv@r
14130 \else
14131 \@mpfootinsv@l
14132 \fi
14133 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14134 \def\baselinestretch{\m@m@footnote@spacing}%
14135 \reset@font\foottextfont
14136 \hsize\columnwidth \@parboxrestore
14137 \protected@edef\@currentlabel{%
14138 \csname p@mpfootnote\endcsname\@thefnmark}%
14139 \color@begingroup
14140 \@eightcolfootfmt{#1}%
14141 \color@endgroup}%
14142 \m@mmf@prepare}
14143 \newcommand{\@mpEightColfootnotetext}[1]{%
14144 \if@RTL@footnote
14145 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14146 \else
14147 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14148 \fi
14149 \global\setbox
14150 \if@RTL@footnote
14151 \@mpfootinsv@r
14152 \else
14153 \@mpfootinsv@l
14154 \fi
14155 \vbox{%
14156 \unvbox
14157 \if@RTL@footnote
14158 \@mpfootinsv@r
14159 \else
14160 \@mpfootinsv@l
14161 \fi
14162 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```




```

14163 \def\baselinestretch{\m@m@footnote@spacing}%
14164 \reset@font\foottextfont
14165 \hsize\columnwidth \@parboxrestore
14166 \protected@edef\@currentlabel{%
14167 \csname p@mpfootnote\endcsname\@thefnmark}%
14168 \color@begingroup
14169 \@eightcolfootfmt{#1}%
14170 \color@endgroup}%
14171 \m@m@m@prepare}
14172 \bidi@ensure@newcommand{\@mpEightColLTRfootnotetext}[1]{%
14173 \global\setbox\@mpfootinsv@l\vbox{%
14174 \unvbox\@mpfootinsv@l
14175 \@RTLfalse
14176 \def\baselinestretch{\m@m@footnote@spacing}%
14177 \reset@font\LTRfoottextfont
14178 \hsize\columnwidth \@parboxrestore
14179 \protected@edef\@currentlabel{%
14180 \csname p@mpfootnote\endcsname\@thefnmark}%
14181 \color@begingroup
14182 \@eightcolLTRfootfmt{#1}%
14183 \color@endgroup}%
14184 \m@m@m@prepare}
14185 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14186 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14187 \global\setbox\@mpfootinsv@l\vbox{%
14188 \unvbox\@mpfootinsv@l
14189 \@RTLfalse
14190 \def\baselinestretch{\m@m@footnote@spacing}%
14191 \reset@font\LTRfoottextfont
14192 \hsize\columnwidth \@parboxrestore
14193 \protected@edef\@currentlabel{%
14194 \csname p@mpfootnote\endcsname\@thefnmark}%
14195 \color@begingroup
14196 \@eightcolLTRfootfmt{#1}%
14197 \color@endgroup}%
14198 \m@m@m@prepare}
14199 \bidi@ensure@newcommand{\@mpEightColRTLfootnotetext}[1]{%
14200 \global\setbox\@mpfootinsv@r\vbox{%
14201 \unvbox\@mpfootinsv@r
14202 \@RTLtrue
14203 \def\baselinestretch{\m@m@footnote@spacing}%
14204 \reset@font\RTLfoottextfont
14205 \hsize\columnwidth \@parboxrestore
14206 \protected@edef\@currentlabel{%
14207 \csname p@mpfootnote\endcsname\@thefnmark}%
14208 \color@begingroup
14209 \@eightcolRTLfootfmt{#1}%
14210 \color@endgroup}%
14211 \m@m@m@prepare}
14212 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14213 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14214 \global\setbox\@mpfootinsv@r\vbox{%
14215 \unvbox\@mpfootinsv@r
14216 \@RTLtrue

```



```

14217 \def\baselinestretch{\m@m@footnote@spacing}%
14218 \reset@font\RTLfoottextfont
14219 \hsize\columnwidth \@parboxrestore
14220 \protected@edef\@currentlabel{%
14221 \csname p@m@footnote\endcsname\@thefnmark}%
14222 \color@begingroup
14223 \@eightcolRTLfootfmt{#1}%
14224 \color@endgroup}%
14225 \m@mmf@prepare}
14226 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14227 \@namedef{@eightcol@footgroup#1}{%
14228 \def\baselinestretch{\m@m@footnote@spacing}%
14229 \hsize\bidi@columnwidth
14230 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14231 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
14232 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14233 \@namedef{@eightcol@LTRfootgroup#1}{%
14234 \def\baselinestretch{\m@m@footnote@spacing}%
14235 \hsize\bidi@columnwidth
14236 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14237 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}
14238 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
14239 \@namedef{@mpeightcol@footgroup#1}{%
14240 \def\baselinestretch{\m@m@footnote@spacing}%
14241 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14242 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}
14243 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14244 \@namedef{@mpeightcol@LTRfootgroup#1}{%
14245 \def\baselinestretch{\m@m@footnote@spacing}%
14246 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14247 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}
14248 \bidi@ensure@newcommand{\nincolumnfootnotes}{%
14249 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14250 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14251 \@bidi@before@Hy@hyperfootnotes
14252 \let@footnotetext\@nincolfootnotetext
14253 \let@LTRfootnotetext\@nincolLTRfootnotetext
14254 \let@RTLfootnotetext\@nincolRTLfootnotetext
14255 \dimen\footinsv@r=9\footinsdim
14256 \count\footinsv@r=111\relax
14257 \m@make@nincol@footgroup{v@r}%
14258 \let@footgroupv@r\@nincol@footgroupv@r
14259 \dimen\footinsv@l=9\footinsdim
14260 \count\footinsv@l=111\relax
14261 \bidi@make@nincol@LTRfootgroup{v@l}%
14262 \let@LTRfootgroupv@l\@nincol@LTRfootgroupv@l
14263 \let@mpfootnotetext\@mpnincolfootnotetext
14264 \let@mpLTRfootnotetext\@mpnincolLTRfootnotetext
14265 \let@mpRTLfootnotetext\@mpnincolRTLfootnotetext
14266 \@bidi@after@Hy@hyperfootnotes
14267 \m@make@mpnincol@footgroup{v@r}%
14268 \let@mp@footgroupv@r\@mpnincol@footgroupv@r
14269 \bidi@make@mpnincol@LTRfootgroup{v@l}%
14270 \let@mp@LTRfootgroupv@l\@mpnincol@LTRfootgroupv@l

```



```

14271 \@ifstar\ bidi@star@footmarkwidth\ bidi@normal@footmarkwidth
14272 }
14273 \newcommand{\NineColumnFootnotes}{%
14274 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14275 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14276 \@bidi@before@Hy@hyperfootnotes
14277 \let\@footnotetext\@NineColfootnotetext
14278 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14279 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14280 \dimen\footinsv@r=9\footinsdim
14281 \count\footinsv@r=111\relax
14282 \m@make@ninelcol@footgroup{v@r}%
14283 \let\@footgroupv@r\@ninelcol@footgroupv@r
14284 \dimen\footinsv@l=9\footinsdim
14285 \count\footinsv@l=111\relax
14286 \bidi@make@ninelcol@LTRfootgroup{v@l}%
14287 \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
14288 \let\@mpfootnotetext\@mpNineColfootnotetext
14289 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14290 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14291 \@bidi@after@Hy@hyperfootnotes
14292 \m@make@mpninelcol@footgroup{v@r}%
14293 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14294 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14295 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14296 \@ifstar\ bidi@star@footmarkwidth\ bidi@normal@footmarkwidth
14297 }
14298 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
14299 \if@RTL@footnote
14300 \footinsv@r
14301 \else
14302 \footinsv@l
14303 \fi
14304 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14305 \def\baselinestretch{\m@footnote@spacing}%
14306 \reset@font\foottextfont
14307 \@preamfntext
14308 \protected@edef\@currentlabel{%
14309 \csname p@footnote\endcsname\@thefnmark}%
14310 \color@begingroup
14311 \@ninelcolfootfmt{#1}%
14312 \color@endgroup}%
14313 \m@mmf@prepare}
14314 \newcommand{\@NineColfootnotetext}[1]{%
14315 \bidi@step@absolute@footnote@count
14316 \if@RTL@footnote
14317 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14318 \else
14319 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14320 \fi
14321 \global\setbox
14322 \if@RTL@footnote
14323 \footinsv@r
14324 \else

```



```

14325 \footinsv@l
14326 \fi
14327 \vbox{%
14328 \unvbox
14329 \if@RTL@footnote
14330 \footinsv@r
14331 \else
14332 \footinsv@l
14333 \fi
14334 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14335 \def\baselinestretch{\m@f@footnote@spacing}%
14336 \reset@font\foottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@mmf@prepare
14344 \if@RTL@footnote
14345 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14346 \else
14347 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14348 \fi
14349 }
14350 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14351 \def\baselinestretch{\m@f@footnote@spacing}%
14352 \reset@font\LTRfoottextfont
14353 \@preamfntext
14354 \protected@edef\@currentlabel{%
14355 \csname p@footnote\endcsname\@thefnmark}%
14356 \color@begingroup
14357 \@ninecolLTRfootfmt{#1}%
14358 \color@endgroup}%
14359 \m@mmf@prepare}
14360 \newcommand{\@NineCollTRfootnotetext}[1]{%
14361 \bidi@step@absolutefootnote@count
14362 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14363 \global\setbox\footinsv@l\vbox{%
14364 \unvbox\footinsv@l
14365 \@RTLfalse
14366 \def\baselinestretch{\m@f@footnote@spacing}%
14367 \reset@font\LTRfoottextfont
14368 \@preamfntext
14369 \protected@edef\@currentlabel{%
14370 \csname p@footnote\endcsname\@thefnmark}%
14371 \color@begingroup
14372 \@ninecolLTRfootfmt{#1}%
14373 \color@endgroup}%
14374 \m@mmf@prepare
14375 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14376 }
14377 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14378 \def\baselinestretch{\m@f@footnote@spacing}%

```



```

14379 \reset@font\RTLfoottextfont
14380 \@preamfntext
14381 \protected@edef\@currentlabel{%
14382   \csname p@footnote\endcsname\@thefnmark}%
14383 \color@begingroup
14384   \@ninecolRTLfootfmt{#1}%
14385 \color@endgroup}%
14386 \m@mmf@prepare}
14387 \newcommand{\@NineColRTLfootnotetext}[1]{%
14388   \bidi@step@absolute@footnote@count
14389   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14390   \global\setbox\footinsv@r\vbox{%
14391     \unvbox\footinsv@r
14392     \@RTLtrue
14393     \def\baselinestretch{\m@m@footnote@spacing}%
14394     \reset@font\RTLfoottextfont
14395     \@preamfntext
14396     \protected@edef\@currentlabel{%
14397       \csname p@footnote\endcsname\@thefnmark}%
14398     \color@begingroup
14399       \@ninecolRTLfootfmt{#1}%
14400     \color@endgroup}%
14401     \m@mmf@prepare
14402     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14403   }
14404   \bidi@ensure@newcommand{\@preamninefmt}{%
14405     \hspace .1\hspace
14406     \parindent=\z@
14407     \tolerance=5000\relax
14408     \leavevmode}
14409   \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14410     \@preamninefmt
14411     {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14412   \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14413     \@preamninefmt
14414     {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14415   \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14416     \@preamninefmt
14417     {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14418   \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14419     \global\setbox
14420       \if@RTL@footnote
14421       \@mpfootinsv@r
14422     \else
14423       \@mpfootinsv@l
14424     \fi
14425     \vbox{%
14426       \unvbox
14427       \if@RTL@footnote
14428       \@mpfootinsv@r
14429     \else
14430       \@mpfootinsv@l
14431     \fi
14432     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

14433 \def\baselinestretch{\m@m@footnote@spacing}%
14434 \reset@font\foottextfont
14435 \hsize\columnwidth \@parboxrestore
14436 \protected@edef\@currentlabel{%
14437 \csname p@mpfootnote\endcsname\@thefnmark}%
14438 \color@begingroup
14439 \@ninecolfootfmt{#1}%
14440 \color@endgroup}%
14441 \m@mmf@prepare}
14442 \newcommand{\@mpNineColfootnotetext}[1]{%
14443 \if@RTL@footnote
14444 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14445 \else
14446 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14447 \fi
14448 \global\setbox
14449 \if@RTL@footnote
14450 \@mpfootinsv@r
14451 \else
14452 \@mpfootinsv@l
14453 \fi
14454 \vbox{%
14455 \unvbox
14456 \if@RTL@footnote
14457 \@mpfootinsv@r
14458 \else
14459 \@mpfootinsv@l
14460 \fi
14461 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14462 \def\baselinestretch{\m@m@footnote@spacing}%
14463 \reset@font\foottextfont
14464 \hsize\columnwidth \@parboxrestore
14465 \protected@edef\@currentlabel{%
14466 \csname p@mpfootnote\endcsname\@thefnmark}%
14467 \color@begingroup
14468 \@ninecolfootfmt{#1}%
14469 \color@endgroup}%
14470 \m@mmf@prepare}
14471 \bidi@ensure@newcommand{\@mpninecollTRfootnotetext}[1]{%
14472 \global\setbox\@mpfootinsv@l\vbox{%
14473 \unvbox\@mpfootinsv@l
14474 \@RTLfalse
14475 \def\baselinestretch{\m@m@footnote@spacing}%
14476 \reset@font\LTRfoottextfont
14477 \hsize\columnwidth \@parboxrestore
14478 \protected@edef\@currentlabel{%
14479 \csname p@mpfootnote\endcsname\@thefnmark}%
14480 \color@begingroup
14481 \@ninecollTRfootfmt{#1}%
14482 \color@endgroup}%
14483 \m@mmf@prepare}
14484 \newcommand{\@mpNineCollTRfootnotetext}[1]{%
14485 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14486 \global\setbox\@mpfootinsv@l\vbox{%

```



```

14487 \unvbox\@mpfootinsv@l
14488 \@RTLfalse
14489 \def\baselinestretch{\m@m@footnote@spacing}%
14490 \reset@font\LTRfoottextfont
14491 \hsize\columnwidth \@parboxrestore
14492 \protected@edef\@currentlabel{%
14493   \csname p@mpfootnote\endcsname\@thefnmark}%
14494 \color@begingroup
14495   \@ninecolLTRfootfmt{#1}%
14496 \color@endgroup}%
14497 \m@mmf@prepare}
14498 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14499   \global\setbox\@mpfootinsv@r\vbox{%
14500     \unvbox\@mpfootinsv@r
14501     \@RTLtrue
14502     \def\baselinestretch{\m@m@footnote@spacing}%
14503     \reset@font\RTLfoottextfont
14504     \hsize\columnwidth \@parboxrestore
14505     \protected@edef\@currentlabel{%
14506       \csname p@mpfootnote\endcsname\@thefnmark}%
14507     \color@begingroup
14508       \@ninecolRTLfootfmt{#1}%
14509     \color@endgroup}%
14510     \m@mmf@prepare}
14511 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14512   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14513   \global\setbox\@mpfootinsv@r\vbox{%
14514     \unvbox\@mpfootinsv@r
14515     \@RTLtrue
14516     \def\baselinestretch{\m@m@footnote@spacing}%
14517     \reset@font\RTLfoottextfont
14518     \hsize\columnwidth \@parboxrestore
14519     \protected@edef\@currentlabel{%
14520       \csname p@mpfootnote\endcsname\@thefnmark}%
14521     \color@begingroup
14522       \@ninecolRTLfootfmt{#1}%
14523     \color@endgroup}%
14524     \m@mmf@prepare}
14525 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14526   \@namedef{\@ninecol@footgroup#1}{%
14527     \def\baselinestretch{\m@m@footnote@spacing}%
14528     \hsize\bidi@columnwidth
14529     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14530     \m@r@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14531 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14532   \@namedef{\@ninecol@LTRfootgroup#1}{%
14533     \def\baselinestretch{\m@m@footnote@spacing}%
14534     \hsize\bidi@columnwidth
14535     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14536     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14537 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14538   \@namedef{\@mpninecol@footgroup#1}{%
14539     \def\baselinestretch{\m@m@footnote@spacing}%
14540     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

14541 \m@r rigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}
14542 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14543 \@namedef{@mpninecol@LTRfootgroup#1}{%
14544 \def\baselinestretch{\m@f@footnote@spacing}%
14545 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14546 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}
14547 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14548 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14549 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14550 \@bidi@before@Hy@hyperfootnotes
14551 \let\@footnotetext\@tencolfootnotetext
14552 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14553 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14554 \dimen\footinsv@r=10\footinsdim
14555 \count\footinsv@r=100\relax
14556 \m@make@tencol@footgroup{v@r}%
14557 \let\@footgroupv@r\@tencol@footgroupv@r
14558 \dimen\footinsv@l=10\footinsdim
14559 \count\footinsv@l=100\relax
14560 \bidi@make@tencol@LTRfootgroup{v@l}%
14561 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14562 \let\@mpfootnotetext\@mptencolfootnotetext
14563 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14564 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14565 \@bidi@after@Hy@hyperfootnotes
14566 \m@make@mptencol@footgroup{v@r}%
14567 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14568 \bidi@make@mptencol@LTRfootgroup{v@l}%
14569 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14570 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14571 }
14572 \newcommand{\TenColumnFootnotes}{%
14573 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14574 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14575 \@bidi@before@Hy@hyperfootnotes
14576 \let\@footnotetext\@TenColfootnotetext
14577 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14578 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14579 \dimen\footinsv@r=10\footinsdim
14580 \count\footinsv@r=100\relax
14581 \m@make@tencol@footgroup{v@r}%
14582 \let\@footgroupv@r\@tencol@footgroupv@r
14583 \dimen\footinsv@l=10\footinsdim
14584 \count\footinsv@l=100\relax
14585 \bidi@make@tencol@LTRfootgroup{v@l}%
14586 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14587 \let\@mpfootnotetext\@mpTenColfootnotetext
14588 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14589 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14590 \@bidi@after@Hy@hyperfootnotes
14591 \m@make@mptencol@footgroup{v@r}%
14592 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14593 \bidi@make@mptencol@LTRfootgroup{v@l}%
14594 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l

```




```

14595 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14596 }
14597 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14598 \if@RTL@footnote
14599 \footinsv@r
14600 \else
14601 \footinsv@l
14602 \fi
14603 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14604 \def\baselinestretch{\m@m@footnote@spacing}%
14605 \reset@font\foottextfont
14606 \@preamfntext
14607 \protected@edef\@currentlabel{%
14608 \csname p@footnote\endcsname\@thefnmark}%
14609 \color@begingroup
14610 \@tencolfootfmt{#1}%
14611 \color@endgroup}%
14612 \m@mmf@prepare}
14613 \newcommand{\@TenColfootnotetext}[1]{%
14614 \bidi@step@absolute@footnote@count
14615 \if@RTL@footnote
14616 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14617 \else
14618 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14619 \fi
14620 \global\setbox
14621 \if@RTL@footnote
14622 \footinsv@r
14623 \else
14624 \footinsv@l
14625 \fi
14626 \vbox{%
14627 \unvbox
14628 \if@RTL@footnote
14629 \footinsv@r
14630 \else
14631 \footinsv@l
14632 \fi
14633 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14634 \def\baselinestretch{\m@m@footnote@spacing}%
14635 \reset@font\foottextfont
14636 \@preamfntext
14637 \protected@edef\@currentlabel{%
14638 \csname p@footnote\endcsname\@thefnmark}%
14639 \color@begingroup
14640 \@tencolfootfmt{#1}%
14641 \color@endgroup}%
14642 \m@mmf@prepare
14643 \if@RTL@footnote
14644 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14645 \else
14646 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14647 \fi
14648 }

```



```

14649 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14650 \def\baselinestretch{\m@m@footnote@spacing}%
14651 \reset@font\LTRfoottextfont
14652 \@preamfntext
14653 \protected@edef\@currentlabel{%
14654 \csname p@footnote\endcsname\@thefnmark}%
14655 \color@begingroup
14656 \@tencolLTRfootfmt{#1}%
14657 \color@endgroup}%
14658 \m@mmf@prepare}
14659 \newcommand{\@TenColLTRfootnotetext}[1]{%
14660 \bidi@step@absolute@footnote@count
14661 \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
14662 \global\setbox\footinsv@l\vbox{%
14663 \unvbox\footinsv@l
14664 \@RTLfalse%
14665 \def\baselinestretch{\m@m@footnote@spacing}%
14666 \reset@font\LTRfoottextfont
14667 \@preamfntext
14668 \protected@edef\@currentlabel{%
14669 \csname p@footnote\endcsname\@thefnmark}%
14670 \color@begingroup
14671 \@tencolLTRfootfmt{#1}%
14672 \color@endgroup}%
14673 \m@mmf@prepare
14674 \bidi@reinsert@final@footnote@perpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14675 }
14676 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14677 \def\baselinestretch{\m@m@footnote@spacing}%
14678 \reset@font\RTLfoottextfont
14679 \@preamfntext
14680 \protected@edef\@currentlabel{%
14681 \csname p@footnote\endcsname\@thefnmark}%
14682 \color@begingroup
14683 \@tencolRTLfootfmt{#1}%
14684 \color@endgroup}%
14685 \m@mmf@prepare}
14686 \newcommand{\@TenColRTLfootnotetext}[1]{%
14687 \bidi@step@absolute@footnote@count
14688 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14689 \global\setbox\footinsv@r\vbox{%
14690 \unvbox\footinsv@r
14691 \@RTLtrue
14692 \def\baselinestretch{\m@m@footnote@spacing}%
14693 \reset@font\RTLfoottextfont
14694 \@preamfntext
14695 \protected@edef\@currentlabel{%
14696 \csname p@footnote\endcsname\@thefnmark}%
14697 \color@begingroup
14698 \@tencolRTLfootfmt{#1}%
14699 \color@endgroup}%
14700 \m@mmf@prepare
14701 \bidi@reinsert@final@footnote@perpage\footinsv@r\@footstartv@r\@footgroupv@r
14702 }

```



```

14703 \bidi@ensure@newcommand{\@preamtenfmt}{%
14704   \hsize .1\hsize
14705   \parindent=\z@
14706   \tolerance=5000\relax
14707   \leavevmode}
14708 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14709   \@preamtenfmt
14710   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14711 \bidi@ensure@newcommand{\@tencollTRfootfmt}[1]{%
14712   \@preamtenfmt
14713   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14714 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14715   \@preamtenfmt
14716   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14717 \bidi@ensure@newcommand{\@emptencolfootnotetext}[1]{%
14718   \global\setbox
14719     \if@RTL@footnote
14720     \@mpfootinsv@r
14721   \else
14722     \@mpfootinsv@l
14723   \fi
14724   \vbox{%
14725     \unvbox
14726     \if@RTL@footnote
14727     \@mpfootinsv@r
14728   \else
14729     \@mpfootinsv@l
14730   \fi
14731   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14732   \def\baselinestretch{\m@m@footnote@spacing}%
14733   \reset@font\foottextfont
14734   \hsize\columnwidth \@parboxrestore
14735   \protected@edef\@currentlabel{%
14736     \csname p@mpfootnote\endcsname\@thefnmark}%
14737   \color@begingroup
14738     \@tencolfootfmt{#1}%
14739   \color@endgroup}%
14740   \m@mmf@prepare}
14741 \newcommand{\@mpTenColfootnotetext}[1]{%
14742   \if@RTL@footnote
14743     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14744   \else
14745     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14746   \fi
14747   \global\setbox
14748     \if@RTL@footnote
14749     \@mpfootinsv@r
14750   \else
14751     \@mpfootinsv@l
14752   \fi
14753   \vbox{%
14754     \unvbox
14755     \if@RTL@footnote
14756     \@mpfootinsv@r

```



```

14757 \else
14758   \@mpfootinsv@l
14759 \fi
14760   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14761   \def\baselinestretch{\m@m@footnote@spacing}%
14762   \reset@font\foottextfont
14763   \hsize\columnwidth \@parboxrestore
14764   \protected@edef\@currentlabel{%
14765     \csname p@mpfootnote\endcsname\@thefnmark}%
14766   \color@begingroup
14767     \@tencolfootfmt{#1}%
14768   \color@endgroup}%
14769   \m@mmf@prepare}
14770 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14771   \global\setbox\@mpfootinsv@l\vbox{%
14772     \unvbox\@mpfootinsv@l
14773     \@RTLfalse
14774     \def\baselinestretch{\m@m@footnote@spacing}%
14775     \reset@font\LTRfoottextfont
14776     \hsize\columnwidth \@parboxrestore
14777     \protected@edef\@currentlabel{%
14778       \csname p@mpfootnote\endcsname\@thefnmark}%
14779     \color@begingroup
14780       \@tencolLTRfootfmt{#1}%
14781     \color@endgroup}%
14782   \m@mmf@prepare}
14783 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14784   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14785   \global\setbox\@mpfootinsv@l\vbox{%
14786     \unvbox\@mpfootinsv@l
14787     \@RTLfalse
14788     \def\baselinestretch{\m@m@footnote@spacing}%
14789     \reset@font\LTRfoottextfont
14790     \hsize\columnwidth \@parboxrestore
14791     \protected@edef\@currentlabel{%
14792       \csname p@mpfootnote\endcsname\@thefnmark}%
14793     \color@begingroup
14794       \@tencolLTRfootfmt{#1}%
14795     \color@endgroup}%
14796   \m@mmf@prepare}
14797 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14798   \global\setbox\@mpfootinsv@r\vbox{%
14799     \unvbox\@mpfootinsv@r
14800     \@RTLtrue
14801     \def\baselinestretch{\m@m@footnote@spacing}%
14802     \reset@font\RTLfoottextfont
14803     \hsize\columnwidth \@parboxrestore
14804     \protected@edef\@currentlabel{%
14805       \csname p@mpfootnote\endcsname\@thefnmark}%
14806     \color@begingroup
14807       \@tencolRTLfootfmt{#1}%
14808     \color@endgroup}%
14809   \m@mmf@prepare}
14810 \newcommand{\@mpTenColRTLfootnotetext}[1]{%

```



```

14811 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14812 \global\setbox\@mpfootinsv@r\vbox{%
14813   \unvbox\@mpfootinsv@r
14814   \RTLtrue
14815   \def\baselinestretch{\m@m@footnote@spacing}%
14816   \reset@font\RTLfoottextfont
14817   \hsize\columnwidth \@parboxrestore
14818   \protected@edef\@currentlabel{%
14819     \csname p@mpfootnote\endcsname\@thefnmark}%
14820   \color@begingroup
14821     \@tencolRTLfootfmt{#1}%
14822   \color@endgroup}%
14823   \m@m@mmf@prepare}
14824 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14825   \@namedef{@tencol@footgroup#1}{%
14826     \def\baselinestretch{\m@m@footnote@spacing}%
14827     \hsize\bidi@columnwidth
14828     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14829     \m@m@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14830 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14831   \@namedef{@tencol@LTRfootgroup#1}{%
14832     \def\baselinestretch{\m@m@footnote@spacing}%
14833     \hsize\bidi@columnwidth
14834     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14835     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14836 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14837   \@namedef{@mptencol@footgroup#1}{%
14838     \def\baselinestretch{\m@m@footnote@spacing}%
14839     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14840     \m@m@rigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14841 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14842   \@namedef{@mptencol@LTRfootgroup#1}{%
14843     \def\baselinestretch{\m@m@footnote@spacing}%
14844     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14845     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14846 \bidi@ensure@newcommand{\m@m@munvxh}[1]{%
14847   \setbox0=\vbox{\unvbox#1}
14848   \global\setbox1=\lastbox}%
14849   \unhbox1
14850   \unskip
14851   \unskip
14852   \unpenalty
14853   \hskip\m@m@ipn@skip}
14854 \bidi@ensure@newcommand{\m@m@mungebox}{%
14855   \setbox0=\hbox{\m@m@munvxh0}%
14856   \dp0=\z@
14857   \ht0=\footfudgefactor\wd0
14858   \box0
14859   \penalty0}
14860 \newskip\m@m@ipn@skip
14861 \bidi@ensure@newcommand*{\m@m@interparanoteglu}[1]{%
14862   {\foottextfont\global\m@m@ipn@skip=#1\relax}}
14863 \m@m@interparanoteglu{1em plus.3em minus.3em}
14864 \bidi@ensure@newcommand*{\m@m@makehboxofhboxes}{%

```



```

14865 \setbox0=\hbox{}}%
14866 \loop
14867   \unpenalty
14868   \setbox2=\lastbox
14869 \ifhbox2
14870   \setbox0=\hbox{\box2\unhbox0}
14871 \repeat}
14872 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14873 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14874 \newcommand*{\AddExtraParaSkip[1]}{%
14875   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14876 }
14877 \let\bidi@xparaskip\relax
14878 \@onlypreamble\AddExtraParaSkip
14879 \@onlypreamble\bidi@xparaskip
14880 \def\bidi@startparafootskip#1{%
14881   \global\advance\skip#1\bidi@paraskip
14882 }
14883 \@onlypreamble\bidi@startparafootskip
14884 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14885   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14886   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14887   \@bidi@before@Hy@hyperfootnotes
14888   \let\@footnotetext\@parafootnotetext
14889   \let\@LTRfootnotetext\@paraLTRfootnotetext
14890   \let\@RTLfootnotetext\@paraRTLfootnotetext
14891   \dimen\footinsv@r=\footinsdim
14892   \count\footinsv@r=1000\relax
14893   \let\bidi@removexfootskip\bidi@removexparafootskip
14894   \m@make@para@footgroup{v@r}%
14895   \m@make@para@footstart{v@r}%
14896   \let\@footgroupv@r\@para@footgroupv@r
14897   \let\@footstartv@r\@para@footstartv@r
14898   \dimen\footinsv@l=\footinsdim
14899   \count\footinsv@l=1000\relax
14900   \bidi@make@para@LTRfootgroup{v@l}%
14901   \m@make@para@footstart{v@l}%
14902   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14903   \let\@footstartv@l\@para@footstartv@l
14904   \let\@mpfootnotetext\@mpparafootnotetext
14905   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14906   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14907   \@bidi@after@Hy@hyperfootnotes
14908   \m@make@mppara@footgroup{v@r}%
14909   \bidi@make@mppara@LTRfootgroup{v@l}%
14910   \let\mp@footgroupv@r\@mppara@footgroupv@r
14911   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14912   \g@addto@macro\bidi@floathook{%
14913     \begingroup
14914       \foottextfont \@tempdima\normalbaselineskip
14915       \multiply \@tempdima \@cclvi
14916       \@tempdimb \columnwidth
14917       \divide \@tempdimb \@cclvi
14918       \divide \@tempdima \@tempdimb

```



```

14919     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14920     \endgroup
14921   }
14922   \AtBeginDocument{%
14923     \begingroup
14924     \foottextfont
14925     \@tempdima\footnotesep
14926     \advance\@tempdima -\ht\strutbox
14927     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14928     \advance\@tempdima.5\normalbaselineskip
14929     \bidi@xparaskip
14930     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14931     \endgroup
14932     \bidi@startparafootskip\footinsv@r
14933     \bidi@startparafootskip\footinsv@l
14934   }
14935   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14936 }
14937 \newcommand{\ParagraphFootnotes}{%
14938   \@namedef{foottextfontv@r}{\foottextfont}%
14939   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14940   \@bidi@before@Hy@hyperfootnotes
14941   \let\@footnotetext\@Parafootnotetext
14942   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14943   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14944   \dimen\footinsv@r=\footinsdim
14945   \count\footinsv@r=1000\relax
14946   \let\bidi@removexfootskip\bidi@removexparafootskip
14947   \m@make@para@footgroup{v@r}%
14948   \m@make@para@footstart{v@r}%
14949   \let\@footgroupv@r\@para@footgroupv@r
14950   \let\@footstartv@r\@para@footstartv@r
14951   \dimen\footinsv@l=\footinsdim
14952   \count\footinsv@l=1000\relax
14953   \bidi@make@para@LTRfootgroup{v@l}%
14954   \m@make@para@footstart{v@l}%
14955   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14956   \let\@footstartv@l\@para@footstartv@l
14957   \let\@mpfootnotetext\@mpParafootnotetext
14958   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14959   \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14960   \@bidi@after@Hy@hyperfootnotes
14961   \m@make@mppara@footgroup{v@r}%
14962   \bidi@make@mppara@LTRfootgroup{v@l}%
14963   \let\mp@footgroupv@r\@mppara@footgroupv@r
14964   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14965   \g@addto@macro\bidi@floathook{%
14966     \begingroup
14967     \foottextfont \@tempdima\normalbaselineskip
14968     \multiply \@tempdima \cclvi
14969     \@tempdimb \columnwidth
14970     \divide \@tempdimb \cclvi
14971     \divide \@tempdima \@tempdimb
14972     \xdef\footfudgefactor{\strip@pt\@tempdima}%

```



```

14973   \endgroup
14974 }
14975 \AtBeginDocument{%
14976   \begingroup
14977   \foottextfont
14978   \@tempdima\footnotesep
14979   \advance\@tempdima -\ht\strutbox
14980   \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14981   \advance\@tempdima.5\normalbaselineskip
14982   \bidi@xparaskip
14983   \xdef\bidi@paraskip{\the\@tempdima\relax}%
14984   \endgroup
14985   \bidi@startparafootskip\footinsv@r
14986   \bidi@startparafootskip\footinsv@l
14987 }
14988   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14989 }
14990 \newcommand{\normalRTLparaLTRfootnotes}{%
14991   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14992   \@bidi@before@Hy@hyperfootnotes
14993   \if@RTL@footnote
14994     \let\@footnotetext\m@mold@footnotetext
14995   \else
14996     \let\@footnotetext\@parafootnotetext
14997   \fi
14998   \let\@LTRfootnotetext\@paraLTRfootnotetext
14999   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
15000   \dimen\footinsv@l=\footinsdim
15001   \count\footinsv@l=1000\relax
15002   \let\bidi@removexfootskip\bidi@removexparafootskip
15003   \bidi@make@para@LTRfootgroup{v@l}%
15004   \m@make@para@footstart{v@l}%
15005   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15006   \let\@footstartv@l\@para@footstartv@l
15007   \if@RTL@footnote
15008     \let\@mpfootnotetext\m@mold@mpfootnotetext
15009   \else
15010     \let\@mpfootnotetext\@mpparafootnotetext
15011   \fi
15012   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
15013   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
15014   \@bidi@after@Hy@hyperfootnotes
15015   \bidi@make@mppara@LTRfootgroup{v@l}%
15016   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15017   \g@addto@macro\bidi@floathook{%
15018     \begingroup
15019     \LTRfoottextfont \@tempdima\normalbaselineskip
15020     \multiply \@tempdima \@cclvi
15021     \@tempdimb \columnwidth
15022     \divide \@tempdimb \@cclvi
15023     \divide \@tempdima \@tempdimb
15024     \xdef\footfudgefactor{\strip@pt\@tempdima}%
15025   \endgroup
15026 }

```




```

15027 \AtBeginDocument{%
15028   \begingroup
15029     \LTRfoottextfont
15030     \@tempdima\footnotesep
15031     \advance\@tempdima -\ht\strutbox
15032     \ifdim\@tempdima<z@ \@tempdima\z@ \fi
15033     \advance\@tempdima.5\normalbaselineskip
15034     \bidi@xparaskip
15035     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15036   \endgroup
15037   \bidi@startparafootskip\footinsv@1
15038 }
15039 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15040 }
15041 \newcommand{\NormalRTLParaLTRFootnotes}{%
15042   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15043   \@bidi@before@Hy@hyperfootnotes
15044   \ifRTL@footnote
15045     \let\@footnotetext\bidi@bidiold@footnotetext
15046   \else
15047     \let\@footnotetext\@Parafootnotetext
15048   \fi
15049   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15050   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15051   \dimen\footinsv@1=\footinsdim
15052   \count\footinsv@1=1000\relax
15053   \let\bidi@removexfootskip\bidi@removexparafootskip
15054   \bidi@make@para@LTRfootgroup{v@1}%
15055   \m@make@para@footstart{v@1}%
15056   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
15057   \let\@footstartv@1\@para@footstartv@1
15058   \ifRTL@footnote
15059     \let\@mpfootnotetext\bidi@bidiold@mpfootnotetext
15060   \else
15061     \let\@mpfootnotetext\@mpParafootnotetext
15062   \fi
15063   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15064   \let\@mpRTLfootnotetext\bidi@bidiold@mpRTLfootnotetext
15065   \@bidi@after@Hy@hyperfootnotes
15066   \bidi@make@mppara@LTRfootgroup{v@1}%
15067   \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15068   \g@addto@macro\bidi@floathook{%
15069     \begingroup
15070       \LTRfoottextfont \@tempdima\normalbaselineskip
15071       \multiply \@tempdima \@cclvi
15072       \@tempdimb \columnwidth
15073       \divide \@tempdimb \@cclvi
15074       \divide \@tempdima \@tempdimb
15075       \xdef\footfudgefactor{\strip@pt\@tempdima}%
15076     \endgroup
15077   }
15078 \AtBeginDocument{%
15079   \begingroup
15080     \LTRfoottextfont

```



```

15081     \@tempdima\footnotesep
15082     \advance\@tempdima -\ht\strutbox
15083     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15084     \advance\@tempdima.5\normalbaselineskip
15085     \bidi@xparaskip
15086     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15087     \endgroup
15088     \bidi@startparafootskip\footinsv@l
15089   }
15090   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15091 }
15092 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15093   \if@RTL@footnote
15094     \footinsv@r
15095   \else
15096     \footinsv@l
15097   \fi
15098   {%
15099   \let\bidi@RTL@everypar\@empty%
15100   \def\baselinestretch{\m@m@footnote@spacing}%
15101   \reset@font\foottextfont
15102   \@preamfntext
15103   \protected@edef\@currentlabel{%
15104     \csname p@footnote\endcsname\@thefnmark}%
15105   \setbox0=\vbox{\hsize=\maxdimen
15106     \color@begingroup
15107     \noindent \@parafootfmt{#1}%
15108     \color@endgroup}%
15109   \m@mungebox}\m@mmf@prepare}
15110 \newcommand{\@Parafootnotetext}[1]{%
15111   \bidi@step@absolutefootnote@count
15112   \if@RTL@footnote
15113     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15114   \else
15115     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15116   \fi
15117   \global\setbox
15118   \if@RTL@footnote
15119     \footinsv@r
15120   \else
15121     \footinsv@l
15122   \fi
15123   \vbox{%
15124   \unvbox
15125   \if@RTL@footnote
15126     \footinsv@r
15127   \else
15128     \footinsv@l
15129   \fi
15130   \let\bidi@RTL@everypar\@empty%
15131   \def\baselinestretch{\m@m@footnote@spacing}%
15132   \reset@font\foottextfont
15133   \@preamfntext
15134   \protected@edef\@currentlabel{%

```



```

15135 \csname p@footnote\endcsname\@thefnmark}%
15136 \setbox0=\vbox{\hsize=\maxdimen
15137 \color@begingroup
15138 \noindent \@parafootfmt{#1}%
15139 \color@endgroup}%
15140 \m@mungebox}\m@mmf@prepare
15141 \if@RTL@footnote
15142 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15143 \else
15144 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15145 \fi
15146 }
15147 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15148 \let\bidi@RTL@everypar\@empty%
15149 \def\baselinestretch{\m@m@footnote@spacing}%
15150 \reset@font\LTRfoottextfont
15151 \@preamfntext
15152 \protected@edef\@currentlabel{%
15153 \csname p@footnote\endcsname\@thefnmark}%
15154 \setbox0=\vbox{\hsize=\maxdimen
15155 \color@begingroup
15156 \noindent \@paraLTRfootfmt{#1}%
15157 \color@endgroup}%
15158 \m@mungebox}\m@mmf@prepare}
15159 \newcommand{\@ParaLTRfootnotetext}[1]{%
15160 \bidi@step@absolute@footnote@count
15161 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15162 \global\setbox\footinsv@l\vbox{%
15163 \unvbox\footinsv@l
15164 \let\bidi@RTL@everypar\@empty%
15165 \def\baselinestretch{\m@m@footnote@spacing}%
15166 \reset@font\LTRfoottextfont
15167 \@preamfntext
15168 \protected@edef\@currentlabel{%
15169 \csname p@footnote\endcsname\@thefnmark}%
15170 \setbox0=\vbox{\hsize=\maxdimen
15171 \color@begingroup
15172 \noindent \@paraLTRfootfmt{#1}%
15173 \color@endgroup}%
15174 \m@mungebox}\m@mmf@prepare
15175 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15176 }
15177 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15178 \let\bidi@RTL@everypar\@empty%
15179 \def\baselinestretch{\m@m@footnote@spacing}%
15180 \reset@font\RTLfoottextfont
15181 \@preamfntext
15182 \protected@edef\@currentlabel{%
15183 \csname p@footnote\endcsname\@thefnmark}%
15184 \setbox0=\vbox{\hsize=\maxdimen
15185 \color@begingroup
15186 \noindent \@paraRTLfootfmt{#1}%
15187 \color@endgroup}%
15188 \m@mungebox}\m@mmf@prepare}

```



```

15189 \newcommand{\@ParaRTLfootnotetext}[1]{%
15190   \bidi@step@absolutefootnote@count
15191   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15192   \global\setbox\footinsv@r\vbox{%
15193     \unvbox\footinsv@r
15194     \let\bidi@RTL@everypar\@empty%
15195     \def\baselinestretch{\m@m@footnote@spacing}%
15196     \reset@font\RTLfoottextfont
15197     \@preamfntext
15198     \protected@edef\@currentlabel{%
15199       \csname p@footnote\endcsname\@thefnmark}%
15200     \setbox0=\vbox{\hsize=\maxdimen
15201       \color@begingroup
15202       \noindent \@paraRTLfootfmt{#1}%
15203       \color@endgroup}%
15204     \m@mungebox}\m@mmf@prepare
15205     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15206 }
15207 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15208   \parindent=\z@
15209   \parfillskip=0pt \@plus 1fil
15210   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15211 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15212   \parindent=\z@
15213   \parfillskip=0pt \@plus 1fil
15214   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15215 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15216   \parindent=\z@
15217   \parfillskip=0pt \@plus 1fil
15218   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15219 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15220   \global\setbox
15221   \if@RTL@footnote
15222     \@mpfootinsv@r
15223   \else
15224     \@mpfootinsv@l
15225   \fi
15226   \vbox{%
15227     \unvbox
15228     \if@RTL@footnote
15229       \@mpfootinsv@r
15230     \else
15231       \@mpfootinsv@l
15232     \fi
15233     \let\bidi@RTL@everypar\@empty
15234     \def\baselinestretch{\m@m@footnote@spacing}%
15235     \reset@font\foottextfont
15236     \hsize\columnwidth \@parboxrestore
15237     \protected@edef\@currentlabel{%
15238       \csname p@mpfootnote\endcsname\@thefnmark}%
15239     \setbox0=\vbox{\hsize=\maxdimen
15240       \color@begingroup
15241       \noindent \@parafootfmt{#1}%
15242       \color@endgroup}%

```



```

15243 \m@ungebox}\m@mfm@prepare}
15244 \newcommand{\@mpParafootnotetext}[1]{%
15245 \if@RTL@footnote
15246 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15247 \else
15248 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15249 \fi
15250 \global\setbox
15251 \if@RTL@footnote
15252 \@mpfootinsv@r
15253 \else
15254 \@mpfootinsv@l
15255 \fi
15256 \vbox{%
15257 \unvbox
15258 \if@RTL@footnote
15259 \@mpfootinsv@r
15260 \else
15261 \@mpfootinsv@l
15262 \fi
15263 \let\bidi@RTL@everypar\@empty
15264 \def\baselinestretch{\m@m@footnote@spacing}%
15265 \reset@font\foottextfont
15266 \hsize\columnwidth \@parboxrestore
15267 \protected@edef\@currentlabel{%
15268 \csname p@mpfootnote\endcsname\@thefnmark}%
15269 \setbox0=\vbox{\hsize=\maxdimen
15270 \color@begingroup
15271 \noindent \@parafootfmt{#1}%
15272 \color@endgroup}%
15273 \m@ungebox}\m@mfm@prepare}
15274 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15275 \global\setbox\@mpfootinsv@l\vbox{%
15276 \unvbox\@mpfootinsv@l
15277 \let\bidi@RTL@everypar\@empty
15278 \def\baselinestretch{\m@m@footnote@spacing}%
15279 \reset@font\LTRfoottextfont
15280 \hsize\columnwidth \@parboxrestore
15281 \protected@edef\@currentlabel{%
15282 \csname p@mpfootnote\endcsname\@thefnmark}%
15283 \setbox0=\vbox{\hsize=\maxdimen
15284 \color@begingroup
15285 \noindent \@paraLTRfootfmt{#1}%
15286 \color@endgroup}%
15287 \m@ungebox}\m@mfm@prepare}
15288 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15289 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15290 \global\setbox\@mpfootinsv@l\vbox{%
15291 \unvbox\@mpfootinsv@l
15292 \let\bidi@RTL@everypar\@empty
15293 \def\baselinestretch{\m@m@footnote@spacing}%
15294 \reset@font\LTRfoottextfont
15295 \hsize\columnwidth \@parboxrestore
15296 \protected@edef\@currentlabel{%

```



```

15297     \csname p@mpfootnote\endcsname\@thefnmark}%
15298     \setbox0=\vbox{\hsize=\maxdimen
15299         \color@begingroup
15300         \noindent \@paraLTRfootfmt{#1}%
15301         \color@endgroup}%
15302     \m@ungebox}\m@mmf@prepare}
15303 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15304     \global\setbox\@mpfootinsv@r\vbox{%
15305     \unvbox\@mpfootinsv@r
15306     \let\bidi@RTL@everypar\@empty
15307     \def\baselinestretch{\m@m@footnote@spacing}%
15308     \reset@font\RTLfoottextfont
15309     \hsize\columnwidth \@parboxrestore
15310     \protected@edef\@currentlabel{%
15311         \csname p@mpfootnote\endcsname\@thefnmark}%
15312     \setbox0=\vbox{\hsize=\maxdimen
15313         \color@begingroup
15314         \noindent \@paraRTLfootfmt{#1}%
15315         \color@endgroup}%
15316     \m@ungebox}\m@mmf@prepare}
15317 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15318     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15319     \global\setbox\@mpfootinsv@r\vbox{%
15320     \unvbox\@mpfootinsv@r
15321     \let\bidi@RTL@everypar\@empty
15322     \def\baselinestretch{\m@m@footnote@spacing}%
15323     \reset@font\RTLfoottextfont
15324     \hsize\columnwidth \@parboxrestore
15325     \protected@edef\@currentlabel{%
15326         \csname p@mpfootnote\endcsname\@thefnmark}%
15327     \setbox0=\vbox{\hsize=\maxdimen
15328         \color@begingroup
15329         \noindent \@paraRTLfootfmt{#1}%
15330         \color@endgroup}%
15331     \m@ungebox}\m@mmf@prepare}
15332 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15333     \@namedef{@para@footgroup#1}{%
15334         \unvbox\@nameuse{footins#1}
15335         \@RTLtrue
15336         \m@makehboxofhboxes
15337         \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15338         \hsize\bidi@columnwidth
15339         \@parboxrestore
15340         \def\baselinestretch{\m@m@footnote@spacing}%
15341         \@nameuse{foottextfont#1}%
15342         \noindent\unhbox0\par}}
15343 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15344     \@namedef{@para@LTRfootgroup#1}{%
15345         \unvbox\@nameuse{footins#1}
15346         \@RTLfalse
15347         \m@makehboxofhboxes
15348         \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15349         \hsize\bidi@columnwidth
15350         \@parboxrestore

```



```

15351 \def\baselinestretch{\m@m@footnote@spacing}%
15352 \@nameuse{foottextfont#1}%
15353 \noindent\unhbox0\par}}
15354 \newcommand{\bidi@removexparafootskip}{%
15355 \advance\@tempskipa -\bidi@paraskip
15356 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15357 }
15358 \let\bidi@removexfootskip\relax
15359 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15360 \@namedef{@mppara@footgroup#1}{%
15361 \unvbox\@nameuse{@mpfootins#1}
15362 \@RTLtrue
15363 \m@mmakehboxofhboxes
15364 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15365 \def\baselinestretch{\m@m@footnote@spacing}%
15366 \@nameuse{foottextfont#1}%
15367 \noindent\unhbox0\par}}
15368 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15369 \@namedef{@mppara@LTRfootgroup#1}{%
15370 \unvbox\@nameuse{@mpfootins#1}
15371 \@RTLfalse
15372 \m@mmakehboxofhboxes
15373 \setbox0=\hbox{\unhbox0 \m@removehboxes}%
15374 \def\baselinestretch{\m@m@footnote@spacing}%
15375 \@nameuse{foottextfont#1}%
15376 \noindent\unhbox0\par}}
15377 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15378 \@namedef{@para@footstart#1}{%
15379 \leftskip=\z@
15380 \rightskip=\z@
15381 \parindent=\z@
15382 }%
15383 }
15384 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15385 \xdef\@freelist{\@freelist\@midlist}%
15386 \global\let\@midlist\@empty
15387 \@combinefloats}
15388 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15389 \ifvbox\@kludgeins
15390 \@makespecialcolbox
15391 \else
15392 \setbox\@outputbox \vbox to\@colht{%
15393 \@texttop
15394 \dimen@ \dp\@outputbox
15395 \unvbox \@outputbox
15396 \vskip -\dimen@
15397 \@textbottom}%
15398 \fi}
15399 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15400 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15401 \boxmaxdepth\@maxdepth
15402 \@tempdima\dp\@cclv
15403 \unvbox\@cclv
15404 \vskip-\@tempdima

```



```

15405 \bidi@mopfn@bottom
15406 \vskip \skip\footins
15407 \color@begingroup
15408 \normalcolor
15409 \footnoterule
15410 \unvbox \footins
15411 \color@endgroup
15412 }%
15413 }
15414 \newcommand*{\bidi@mopfootnotebf}{%
15415 \setbox\@outputbox \vbox{%
15416 \boxmaxdepth\@maxdepth
15417 \unvbox\@outputbox
15418 \bidi@mopfn@bottom
15419 \vskip\skip\footins
15420 \color@begingroup
15421 \normalcolor
15422 \footnoterule
15423 \unvbox \footins
15424 \color@endgroup
15425 }%
15426 }
15427 \gdef\mem@makecol{%
15428 \m@m@makecolintro
15429 \m@m@doextrafeet
15430 \ifvoid\footins
15431 \setbox\@outputbox \box\@cclv
15432 \else
15433 \m@mopfootnote
15434 \fi
15435 \m@m@makecolfloats
15436 \m@m@makecoltext
15437 \global \maxdepth \@maxdepth}
15438 \gdef\bidi@makecolbf{%
15439 \m@m@makecolintro
15440 \m@m@doextrafeet
15441 \setbox\@outputbox \box\@cclv
15442 \m@m@makecolfloats
15443 \ifvoid\footins
15444 \else
15445 \bidi@mopfootnotebf
15446 \fi
15447 \m@m@makecoltext
15448 \global \maxdepth \@maxdepth}
15449 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15450 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15451 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15452 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15453 \FeetAboveFloat
15454 \FeetBelowRagged
15455 \def\bidi@reinserts#1{\ifvoid#1\else
15456 \ifnum\count\@currbox>\z@
15457 \advance\@pageht \ht#1%
15458 \advance\@pageht \skip#1%

```




```

15459     \advance\@pageht \dp#1%
15460     \fi
15461     \insert#1{\unvbox#1}%
15462     \fi
15463 }
15464 \def\bid@init@multi@footins#1{%
15465     \multiply\count#1\col@number
15466     \multiply\skip#1\col@number
15467 }
15468 \def\bid@reinsert@footnotes#1{\ifvoid#1\else
15469     \insert#1{\fi}
15470 \AtBeginDocument{%
15471     \bid@preto\@doclearpage\m@mdoextrafeet
15472     \g@addto@macro\@reinserts{%
15473         \bid@reinserts\footinsv@r
15474         \bid@reinserts\footinsv@l
15475     }
15476     \bid@floathook
15477     \g@addto@macro\@floatplacement{%
15478         \bid@ifmulticol}{\bid@floathook}%
15479     }%
15480     \if\bid@csundef{multi@column@out}{%
15481         \@onlypreamble\bid@init@multi@footins
15482         \let\bid@ifmulticol\@secondoftwo
15483     }{%
15484         \bid@preto\multi@column@out\m@mdoextrafeet
15485         \g@addto@macro\init@multi@footins{%
15486             \bid@init@multi@footins\footinsv@r
15487             \bid@init@multi@footins\footinsv@l
15488         }%
15489         \g@addto@macro\reinsert@footnotes{%
15490             \bid@reinsert@footnotes\footinsv@r
15491             \bid@reinsert@footnotes\footinsv@l
15492         }%
15493     }%
15494 }

```

87 File extreport-xetex-bidi.def

```

15495 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15496 \renewcommand*\l@part[2]{%
15497     \ifnum \c@tocdepth >-2\relax
15498         \addpenalty{-\@highpenalty}%
15499         \addvspace{2.25em \@plus\p}%
15500         \begingroup
15501             \setlength\@tempdima{3em}%
15502             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15503             \parfillskip -\@pnumwidth
15504             {\leavevmode
15505                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15506             \nobreak
15507             \global\@nobreaktrue
15508             \everypar{\global\@nobreakfalse\everypar{}}%
15509         \endgroup

```



```

15510 \fi}
15511 \renewcommand*\l@chapter[2]{%
15512 \ifnum \c@tocdepth >\m@ne
15513 \addpenalty{-\@highpenalty}%
15514 \vskip 1.0em \plus\p@
15515 \setlength\@tempdima{1.5em}%
15516 \begingroup
15517 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15518 \parfillskip -\@pnumwidth
15519 \leavevmode \bfseries
15520 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15521 \hskip -\if@RTL\rightskip\else\leftskip\fi
15522 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15523 \penalty\@highpenalty
15524 \endgroup
15525 \fi}
15526 \def\@makechapterhead#1{%
15527 \vspace*{50\p@}%
15528 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15529 \ifnum \c@secnumdepth >\m@ne
15530 \huge\bfseries \@chapapp\space \thechapter
15531 \par\nobreak
15532 \vskip 20\p@
15533 \fi
15534 \interlinepenalty\@M
15535 \Huge \bfseries #1\par\nobreak
15536 \vskip 40\p@
15537 }}
15538 \def\@makeschapterhead#1{%
15539 \vspace*{50\p@}%
15540 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15541 \normalfont
15542 \interlinepenalty\@M
15543 \Huge \bfseries #1\par\nobreak
15544 \vskip 40\p@
15545 }}
15546 \renewcommand\left@footnoterule{%
15547 \kern-3\p@
15548 \hrule\width.4\columnwidth
15549 \kern2.6\p@}
15550 \renewcommand\right@footnoterule{%
15551 \kern-3\p@
15552 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15553 \kern2.6\p@}
15554 \renewenvironment{thebibliography}[1]
15555 {\chapter*{\bibname
15556 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15557 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15558 \bidi@thebibliography@font@hook%
15559 \list{\@biblabel{\@arabic\c@enumiv}}%
15560 {\settowidth\labelwidth{\@biblabel{#1}}%
15561 \leftmargin\labelwidth
15562 \advance\leftmargin\labelsep
15563 \@openbib@code

```



```

15564         \usecounter{enumiv}%
15565         \let\p@enumiv\@empty
15566         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15567     \sloppy\clubpenalty4000\widowpenalty4000%
15568     \sfcode`. \@m}
15569     {\def\@noitemerr
15570       {\@latex@warning{Empty `thebibliography' environment}}}%
15571     \endlist}
15572 \if@titlepage
15573 \renewcommand\maketitle{\begin{titlepage}%
15574 \let\footnotesize\small
15575 \let\right@footnoterule\relax
15576 \let\left@footnoterule\relax
15577 \let\textwidth@footnoterule\relax
15578 \let \footnote \thanks
15579 \null\vfil
15580 \vskip 60\p@
15581 \begin{center}%
15582   {\LARGE \@title \par}%
15583   \vskip 3em%
15584   {\large
15585     \lineskip .75em%
15586     \begin{tabular}[t]{c}%
15587       \@author
15588     \end{tabular}\par}%
15589     \vskip 1.5em%
15590     {\large \@date \par}%           % Set date in \large size.
15591 \end{center}\par
15592 \@thanks
15593 \vfil\null
15594 \end{titlepage}%
15595 \setcounter{footnote}{0}%
15596 \global\let\thanks\relax
15597 \global\let\maketitle\relax
15598 \global\let\@thanks\@empty
15599 \global\let\@author\@empty
15600 \global\let\@date\@empty
15601 \global\let\@title\@empty
15602 \global\let\title\relax
15603 \global\let\author\relax
15604 \global\let\date\relax
15605 \global\let\and\relax
15606 }
15607 \else
15608 \renewcommand\maketitle{\par
15609 \begingroup
15610   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15611   \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15612   \long\def\@makefntext##1{\parindent 1em\noindent
15613     \hbxt@1.8em{%
15614       \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15615   \if@twocolumn
15616     \ifnum \col@number=\@ne
15617     \maketitle

```



```

15618     \else
15619         \twocolumn[\@maketitle]%
15620     \fi
15621     \else
15622         \newpage
15623         \global\@topnum\z@ % Prevents figures from going at top of page.
15624         \@maketitle
15625     \fi
15626     \thispagestyle{plain}\@thanks
15627 \endgroup
15628 \setcounter{footnote}{0}%
15629 \global\let\thanks\relax
15630 \global\let\maketitle\relax
15631 \global\let\@maketitle\relax
15632 \global\let\@thanks\@empty
15633 \global\let\@author\@empty
15634 \global\let\@date\@empty
15635 \global\let\@title\@empty
15636 \global\let\title\relax
15637 \global\let\author\relax
15638 \global\let\date\relax
15639 \global\let\and\relax
15640 }
15641 \def\@maketitle{%
15642     \newpage
15643     \null
15644     \vskip 2em%
15645     \begin{center}%
15646     \let \footnote \thanks
15647     {\LARGE \@title \par}%
15648     \vskip 1.5em%
15649     {\large
15650         \lineskip .5em%
15651         \begin{tabular}[t]{c}%
15652             \@author
15653         \end{tabular}\par}%
15654     \vskip 1em%
15655     {\large \@date}%
15656     \end{center}%
15657     \par
15658     \vskip 1.5em}
15659 \fi
15660 \renewcommand\thesection    {\thechapter\@SepMark\@arabic\c@section}
15661 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15662 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15663 \renewcommand\theparagraph  {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15664 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15665 \renewcommand\theequation{%
15666     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15667 \renewcommand\thefigure{%
15668     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15669 \renewcommand\thetable{%
15670     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```



88 File fancybox-xetex-bidi.def

```
15671 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15672 \def\fancy@oval#1#2#3{%
15673   \boxmaxdepth \maxdimen
15674   \@ovttrue \ovbtrue \ovltrue \ovrtrue
15675   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15676   \@ovxx#1\relax
15677   \advance\@ovxx-\@wholewidth
15678   \@ovyy#2\relax
15679   \advance\@ovyy-\@wholewidth
15680   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \else \@ovyy \fi
15681   \advance\@tempdimb-2\p@
15682   \ifdim\@tempdimb>\the@cornersize\relax
15683     \@tempdimb=\the@cornersize
15684   \fi
15685   \@getcirc\@tempdimb
15686   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15687   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15688   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15689   \@circlefnt
15690   \setbox\@tempboxa\hbox{\beginL%
15691     \if@ovr \ovvert32\kern -\@tempdima \fi
15692     \if@ovl \kern \@ovxx \ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15693     \if@ovt \ovhorz \kern -\@ovxx \fi
15694     \if@ovb \raise \@ovyy \ovhorz \fi\endL}%
15695   \advance\@ovdx\@ovro
15696   \advance\@ovdy\@ovro
15697   \advance\@ovxx\@wholewidth
15698   \wd\@tempboxa=\@ovxx
15699   \dp\@tempboxa=\z@}
```

89 File fancyhdr-xetex-bidi.def

```
15700 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/01/07 v0.9 bidi adaptations for fancyhdr package]
15701
15702 \let\f@nch@everypar\everypar
15703
15704 \bidi@patchcmd\f@nch@hfbbox@center\raggedright\bidi@raggedright
15705 {}{\bidi@warningnoline{Oops! patching '\string\f@nch@hfbbox@center' failed}}
15706 \bidi@patchcmd\f@nch@hfbbox@center\raggedleft\bidi@raggedleft
15707 {}{\bidi@warningnoline{Oops! patching '\string\f@nch@hfbbox@center' failed}}
15708
15709 \bidi@patchcmd\f@nch@hfbbox@fit\raggedright\bidi@raggedright
15710 {}{\bidi@warningnoline{Oops! patching '\string\f@nch@hfbbox@fit' failed}}
15711 \bidi@patchcmd\f@nch@hfbbox@fit\raggedleft\bidi@raggedleft
15712 {}{\bidi@warningnoline{Oops! patching '\string\f@nch@hfbbox@fit' failed}}
15713
```

90 File fix2col-xetex-bidi.def

```
15714 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15715 \def\RTL\outputdblcol{%
15716   \if@firstcolumn
```



```

15717 \global\@firstcolumnfalse
15718 \global\setbox\@leftcolumn\copy\@outputbox
15719 \splitmaxdepth\maxdimen
15720 \vbadness\maxdimen
15721 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15722 \toks@\expandafter{\topmark}%
15723 \xdef\@firstcoltopmark{\the\toks@}%
15724 \toks@\expandafter{\splitfirstmark}%
15725 \xdef\@firstcolfirstmark{\the\toks@}%
15726 \ifx\@firstcolfirstmark\@empty
15727 \global\let\@setmarks\relax
15728 \else
15729 \gdef\@setmarks{%
15730 \let\firstmark\@firstcolfirstmark
15731 \let\topmark\@firstcoltopmark}%
15732 \fi
15733 \else \global\@firstcolumntrue
15734 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15735 \hskip \columnwidth
15736 \hfil \vrule width\columnseprule \hfil
15737 \hbox to\columnwidth {%
15738 \bidi@firstcolumn@status@write%
15739 \box\@leftcolumn \hss}%
15740 \hskip -\textwidth
15741 \hbox to\columnwidth{%
15742 \bidi@lastcolumn@status@write%
15743 \box\@outputbox \hss}%
15744 \hskip \columnsep
15745 \hskip \columnwidth }}%
15746 \@combinedblfloats \@setmarks \@outputpage
15747 \begingroup \@dblfloatplacement \@startdblcolumn
15748 \@whiles\if@colmade \fi
15749 {\@outputpage \@startdblcolumn }\endgroup
15750 \fi}
15751 \def\LTR@outputdblcol{%
15752 \if@firstcolumn
15753 \global\@firstcolumnfalse
15754 \global\setbox\@leftcolumn\copy\@outputbox
15755 \splitmaxdepth\maxdimen
15756 \vbadness\maxdimen
15757 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15758 \toks@\expandafter{\topmark}%
15759 \xdef\@firstcoltopmark{\the\toks@}%
15760 \toks@\expandafter{\splitfirstmark}%
15761 \xdef\@firstcolfirstmark{\the\toks@}%
15762 \ifx\@firstcolfirstmark\@empty
15763 \global\let\@setmarks\relax
15764 \else
15765 \gdef\@setmarks{%
15766 \let\firstmark\@firstcolfirstmark
15767 \let\topmark\@firstcoltopmark}%
15768 \fi
15769 \else
15770 \global\@firstcolumntrue

```



```

15771 \setbox\@outputbox\vbox{%
15772 \hb@xt@\textwidth{%
15773 \hb@xt@\columnwidth{%
15774 \bidi@firstcolumn@status@write%
15775 \box\@leftcolumn \hss}%
15776 \hfil
15777 \vrule \@width\columnseprule
15778 \hfil
15779 \hb@xt@\columnwidth{%
15780 \bidi@lastcolumn@status@write%
15781 \box\@outputbox \hss}}}%
15782 \@combinedblfloats
15783 \@setmarks
15784 \@outputpage
15785 \begin@group
15786 \@dblfloatplacement
15787 \@startdblcolumn
15788 \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15789 \end@group
15790 \fi}

```

91 File fleqn-xetex-bidi.def

```

15791 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15792 \DeclareRobustCommand\{\relax
15793 \ifmmode\@badmath
15794 \else
15795 \begin{trivlist}%
15796 \@beginparpenalty\predisplaypenalty
15797 \@endparpenalty\postdisplaypenalty
15798 \item[]\leavevmode
15799 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
15800 \hskip\mathindent\bgroup
15801 \fi}
15802 \DeclareRobustCommand\{\relax
15803 \ifmmode
15804 \egroup $\hfil% $
15805 \endL\egroup
15806 \end{trivlist}%
15807 \else \@badmath
15808 \fi}
15809 \renewenvironment{equation}%
15810 {\@beginparpenalty\predisplaypenalty
15811 \@endparpenalty\postdisplaypenalty
15812 \refstepcounter{equation}%
15813 \trivlist \item[]\leavevmode
15814 \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15815 \displaystyle
15816 \hskip\mathindent}%
15817 {$\hfil % $
15818 \displaywidth\linewidth\hbox{\@eqnnum}%
15819 \endL\egroup
15820 \endtrivlist}

```



92 File float-xetex-bidi.def

```
15821 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15822 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15823 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15824 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15825 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%
15826 \expandafter\edef\csname the#1\endcsname{%
15827 \expandafter\noexpand\csname
15828 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15829 {\PackageWarning{float}{Can't redefine counter variable for #1.}}
```

93 File floatrow-xetex-bidi.def

```
15830 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15831 \RequirePackage{color}
15832 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15833 \expandafter\edef\csname the\FB@captype\endcsname{%
15834 \expandafter\noexpand\csname
15835 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}
```

94 File flowfram-xetex-bidi.def

```
15836 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package
15837 \def\@outputdblcol{%
15838 \@nxtcol=\c@thisframe
15839 \c@curpg=\c@page
15840 \@g@tnextcol{\@nxtcol}%
15841 \if@ff@nwpg % next flow frame starts on new page
15842 \global\@firstcolumntrue
15843 \@setcolbox\c@thisframe
15844 \if@specialpage
15845 \global\@specialpagefalse
15846 \@nameuse{ps@\@specialstyle}\relax
15847 \fi
15848 \if@twoside
15849 \ifodd\count\z@
15850 \let\@thehead\@oddhead
15851 \let\@thefoot\@oddfoot
15852 \else
15853 \let\@thehead\@evenhead
15854 \let\@thefoot\@evenfoot
15855 \fi
15856 \else
15857 \let\@thehead\@oddhead
15858 \let\@thefoot\@oddfoot
15859 \fi
15860 \@beginvvi
15861 \@dodynamicthehead\@dodynamicthefoot
15862 \vbadness=\@M
15863 \setbox\@outputbox\ vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15864 \@combinedblfloats
15865 \@outputpage
15866 \advance\c@curpg by -\c@page\relax
```




```

15867 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15868 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
15869 \@outputpage}
15870 \begingroup
15871 \@dblfloatplacement
15872 \@startdblcolumn
15873 \@whilesw \if@fcolmade \fi
15874 {\@outputpage \@startdblcolumn }\endgroup
15875 \@resetst@tics
15876 \@resetdyn@tics
15877 \else % still on same page, save contents of box255
15878 \global\@firstcolumnfalse
15879 \@setcolbox\c@thisframe
15880 \fi
15881 \global\c@thisframe=\@nxtcol
15882 \@setcol{\c@thisframe}\relax
15883 \global\@colht\vsiz
15884 }
15885 \def\@outputpage{%
15886 \begingroup
15887 \let\protect\noexpand
15888 \@resetactivechars
15889 \global\let\@if@newlist\if@newlist
15890 \global\@newlistfalse\@parboxrestore
15891 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15892 \bidi@beforeoutputpageshipouthook
15893 \shipout\vbox{\set@typeset@protect
15894 \aftergroup
15895 \endgroup
15896 \aftergroup
15897 \set@typeset@protect
15898 \reset@font\normalsize
15899 \bidi@font\@outputpage
15900 \normalsfcodes
15901 \let\label\@gobble
15902 \let\index\@gobble
15903 \let\glossary\@gobble
15904 \baselineskip\z@skip
15905 \lineskip\z@skip
15906 \lineskiplimit\z@
15907 \vskip\topmargin\moveright\@themargin
15908 \vbox{%
15909 \global\let\@bidi@BeforeHeader\@firstofone
15910 \bidi@beforeheaderhook
15911 \vskip\headheight
15912 \vskip\headsep
15913 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
15914 \bidi@beforeoutputboxoutputpagehook
15915 \box\@outputbox
15916 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
15917 \bidi@afteroutputboxoutputpagehook
15918 }}%
15919 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
15920 \bidi@afteroutputpageshipouthook

```



```

15921 \global\let\if@newlist\@if@newlist
15922 \stepcounter{page}%
15923 \setcounter{displayedframe}{0}%
15924 \let\firstmark\botmark
15925 \global\let\ bidi@AtEndOutputPage\@firstofone
15926 \bidi@atendoutputpagehook
15927 }
15928
15929
15930 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
15931 \expandafter\bidicolor\ff@txtcol}}
15932
15933 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15934 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15935
15936
15937 \renewcommand*\@docolbox}[1]{%
15938 \edef\ff@frametype{%
15939 \csname @ff@frametype@\romannumeral#1\endcsname}%
15940 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15941 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15942 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15943 \@ff@setoffset{#1}%
15944 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
15945 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
15946 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15947 {\csname colheight\romannumeral#1\endcsname}{%
15948 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15949 \csname\ff@frametype\endcsname}%
15950 }{%
15951 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15952 {\csname colheight\romannumeral#1\endcsname}{%
15953 \expandafter\box\csname column\romannumeral#1\endcsname}%
15954 }}}
15955 \IfClassLoadedT{book}{%
15956 \renewcommand\theequation
15957 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15958 \renewcommand \thefigure
15959 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15960 \renewcommand \thetable
15961 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15962 \renewcommand \thechapter {\@arabic\c@chapter}
15963 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15964 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15965 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15966 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15967 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15968 \IfClassLoadedT{report}{%
15969 \renewcommand\theequation
15970 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15971 \renewcommand \thefigure
15972 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15973 \renewcommand \thetable
15974 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}

```



```

15975 \renewcommand \thechapter {\@arabic\c@chapter}
15976 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15977 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15978 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
15979 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15980 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15981 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15982 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
15983 \else
15984 #2\relax
15985 \fi}

```

95 File footnote-xetex-bidi.def

```

15986 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15987 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15988 \newif\ifbidi@autofooterule
15989 \def\bidi@mpfootnoterule{\footnoterule}
15990 \newcounter{footdir@label}
15991 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15992 \newcommand*{\footdir@write}{%
15993 \stepcounter{footdir@label}%
15994 \zref@labelbyprops{\thefootdir@label}{abspage}%
15995 }
15996 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15997 \newtoks\footdir@toks
15998 \newcommand*{\footdir@debug}[1]{%
15999 \iffootdir@debug
16000 \typeout{[footdir] #1}%
16001 \fi
16002 }
16003 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
16004 \newcommand*{\footdir@LeftRightElse}{%
16005 \ltx@ifundefined{footdir@the\value{zabspage}}{%
16006 \footdir@debug{abspage \the\value{zabspage}: else}%
16007 \ltx@thirdofthree
16008 }{%
16009 \if\csname footdir@the\value{zabspage}\endcsname L%
16010 \footdir@debug{abspage \the\value{zabspage}: left}%
16011 \expandafter\ltx@firstofthree
16012 \else
16013 \footdir@debug{abspage \the\value{zabspage}: right}%
16014 \expandafter\ltx@secondofthree
16015 \fi
16016 }%
16017 }%
16018 }{%
16019 \providecommand*{\c@zabspage}{\c@abspage}%
16020 \newcommand*{\footdir@LeftRightElse}{%
16021 \footdir@write
16022 \zifrefundefined{\thefootdir@label}{%
16023 \footdir@debug{abspage ??: else}%
16024 \ltx@thirdofthree
16025 }{%

```



```

16026 \edef\footdir@abspage{%
16027 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16028 }%
16029 \ltx@ifundefined{footdir@\footdir@abspage}{%
16030 \footdir@debug{\footdir@abspage: else}%
16031 \ltx@thirdofthree
16032 }{%
16033 \if\csname footdir@\footdir@abspage\endcsname L%
16034 \footdir@debug{\footdir@abspage: left}%
16035 \expandafter\ltx@firstofthree
16036 \else
16037 \footdir@debug{\footdir@abspage: right}%
16038 \expandafter\ltx@secondofthree
16039 \fi
16040 }%
16041 }%
16042 }%
16043 }%
16044 \newcommand*\footdir@fntext}[1]{%
16045 \zifrefundefined{\thefootdir@label}{%
16046 }{%
16047 \edef\footdir@name{%
16048 footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16049 }%
16050 \@ifundefined{\footdir@name}{%
16051 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16052 }{}%
16053 }%
16054 }
16055
16056 \newcommand*\footdir@temp}[3]{%
16057 \@ifdefinable{#1}{%
16058 \let#1#2%
16059 \renewcommand{#2}[1]{%
16060 \footdir@write
16061 \footdir@fntext{#3}%
16062 \stepcounter{footdir@label}%
16063 \footdir@fntext{#3}%
16064 \footdir@toks{##1}%
16065 \footdir@toks\expandafter{%
16066 \the\expandafter\footdir@toks
16067 \expandafter
16068 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16069 }%
16070 \expandafter#1\expandafter{\the\footdir@toks}%
16071 }%
16072 }%
16073 }
16074
16075 \def\right@footnoterule{%
16076 \kern-3\p@
16077 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16078 \kern2.6\p@}
16079 \def\left@footnoterule{\kern-3\p@

```



```

16080 \hrule \@width .4\columnwidth \kern 2.6\p@}
16081 \def\textwidth@footnoterule{\kern-3\p@
16082 \hrule \@width \columnwidth \kern 2.6\p@}
16083 \def\leftfootnoterule{%
16084 \bidi@autofootnoterulefalse%
16085 \def\footnoterule{\left@footnoterule}}
16086 \let\LRfootnoterule=\leftfootnoterule
16087 \def\rightfootnoterule{%
16088 \bidi@autofootnoterulefalse%
16089 \def\footnoterule{\right@footnoterule}}
16090 \def\textwidthfootnoterule{%
16091 \bidi@autofootnoterulefalse%
16092 \def\footnoterule{\textwidth@footnoterule}}
16093
16094
16095
16096 \def\auto@footnoterule{%
16097 \footdir@LeftRightElse%
16098 \left@footnoterule%
16099 \right@footnoterule%
16100 \left@footnoterule%
16101 }
16102
16103
16104
16105 \def\autofootnoterule{%
16106 \bidi@autofootnoteruletrue%
16107 \def\footnoterule{\auto@footnoterule}%
16108 }
16109
16110 \newcommand*{\SplitFootnoteRule}{-%
16111 \gdef\split@prev{0}
16112 \let\pagefootnoterule\footnoterule
16113 \let\mpfootnoterule\footnoterule
16114 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16115 \def\footnoterule{\relax
16116 \ifx \@listdepth@\@mplistdepth
16117 \mpfootnoterule
16118 \else
16119 \ifnum\split@prev=\z@
16120 \pagefootnoterule
16121 \else
16122 \splitfootnoterule
16123 \fi
16124 \xdef\split@prev{\the\insertpenalties}%
16125 \fi
16126 }%
16127 }
16128
16129
16130
16131
16132 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16133 \protected@xdef\@thefnmark{\thempfn}%

```



```

16134     \@footnotemark\@RTLfootnotetext}}
16135 \def\@xRTLfootnote[#1]{%
16136     \begingroup
16137     \csname c@\@mpfn\endcsname #1\relax
16138     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16139     \endgroup
16140     \@footnotemark\@RTLfootnotetext}
16141 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16142     \protected@xdef\@thefnmark{\thempfn}%
16143     \@footnotemark\@LTRfootnotetext}}
16144 \def\@xLTRfootnote[#1]{%
16145     \begingroup
16146     \csname c@\@mpfn\endcsname #1\relax
16147     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16148     \endgroup
16149     \@footnotemark\@LTRfootnotetext}
16150
16151
16152 \def\setfootnoteRL{\@RTL@footnotetrue}
16153 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16154 \def\setfootnoteLR{\unsetfootnoteRL}
16155
16156 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16157 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16158 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16159
16160 \long\def\@footnotetext#1{\insert\footins{%
16161     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16162     \reset@font%
16163     \bidi@footnotetext@font% \reset@font\footnotesize
16164     \interlinepenalty\interfootnotelinepenalty
16165     \splittopskip\footnotesep
16166     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16167     \hsize\columnwidth \@parboxrestore
16168     \protected@edef\@currentlabel{%
16169         \csname p@footnote\endcsname\@thefnmark
16170     }%
16171     \color@begingroup
16172     \@makefntext{%
16173         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16174     \color@endgroup}}}%
16175
16176
16177 \long\def\@RTLfootnotetext#1{\insert\footins{%
16178     \@RTLtrue%
16179     \reset@font%
16180     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16181     \interlinepenalty\interfootnotelinepenalty
16182     \splittopskip\footnotesep
16183     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16184     \hsize\columnwidth \@parboxrestore
16185     \protected@edef\@currentlabel{%
16186         \csname p@footnote\endcsname\@thefnmark
16187     }%

```



```

16188 \color@begingroup
16189 \@makefntext{%
16190 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16191 \color@endgroup}}%
16192
16193 \long\def\@LTRfootnotetext#1{\insert\footins{%
16194 \@RTLfalse%
16195 \reset@font%
16196 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16197 \interlinepenalty\interfootnotelinepenalty
16198 \splittopskip\footnotesep
16199 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16200 \hsize\columnwidth \@parboxrestore
16201 \protected@edef\@currentlabel{%
16202 \csname p@footnote\endcsname\@thefnmark
16203 }%
16204 \color@begingroup
16205 \@makefntext{%
16206 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16207 \color@endgroup}}%
16208
16209 \AtBeginDocument{%
16210 \if@RTL@footnote
16211 \newcommand*{\bidi@footdir@footnote}{R}
16212 \else
16213 \newcommand*{\bidi@footdir@footnote}{L}
16214 \fi%
16215 }
16216
16217 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16218 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16219 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16220
16221 \long\def\@mpRTLfootnotetext#1{%
16222 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule%
16223 \global\setbox\@mpfootins\vbox{%
16224 \unvbox\@mpfootins
16225 \@RTLtrue
16226 \reset@font%
16227 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16228 \hsize\columnwidth
16229 \@parboxrestore
16230 \protected@edef\@currentlabel
16231 {\csname p@mpfootnote\endcsname\@thefnmark}%
16232 \color@begingroup
16233 \@makefntext{%
16234 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16235 \color@endgroup}}
16236 \long\def\@mpLTRfootnotetext#1{%
16237 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule%
16238 \global\setbox\@mpfootins\vbox{%
16239 \unvbox\@mpfootins
16240 \@RTLfalse
16241 \reset@font%

```



```

16242 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16243 \hsize\columnwidth
16244 \@parboxrestore
16245 \protected@edef\@currentlabel
16246   {\csname p@mpfootnote\endcsname\@thefnmark}%
16247 \color@begingroup
16248   \@makefnintext{%
16249     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16250 \color@endgroup}}
16251 \long\def\@mpfootnotetext#1{%
16252 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnote
16253 \global\setbox\@mpfootins\vbox{%
16254   \unvbox\@mpfootins
16255   \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
16256   \reset@font%
16257   \bidi@footnotetext@font% \reset@font\footnotesize
16258   \hsize\columnwidth
16259   \@parboxrestore
16260   \protected@edef\@currentlabel
16261     {\csname p@mpfootnote\endcsname\@thefnmark}%
16262   \color@begingroup
16263     \@makefnintext{%
16264       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16265   \color@endgroup}}
16266 \def\@iiiminipage#1#2[#3]#4{%
16267 \leavevmode
16268 \@pboxswfalse
16269 \ifhboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16270 \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16271 \setlength\@tempdima{#4}%
16272 \def\@mpargs{#1}#2[#3]#4}%
16273 \setbox\@tempboxa\vbox\bgroup
16274   \color@begingroup
16275   \hsize\@tempdima
16276   \textwidth\hsize \columnwidth\hsize
16277   \@parboxrestore
16278   \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16279   \let\@footnotetext\@mpfootnotetext
16280   \let\@LTRfootnotetext\@mpLTRfootnotetext
16281   \let\@RTLfootnotetext\@mpRTLfootnotetext
16282   \let\@listdepth\@mplistdepth \@mplistdepth\z@
16283   \@minipagerestore
16284   \@setminipage}
16285 \def\endminipage{%
16286   \par
16287   \unskip
16288   \ifvoid\@mpfootins\else
16289     \vskip\skip\@mpfootins
16290     \normalcolor
16291     \bidi@mpfootnoterule
16292     \unvbox\@mpfootins
16293   \fi
16294   \@minipagefalse %% added 24 May 89
16295 \color@endgroup

```




```

16296 \egroup
16297 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16298 \def\LTRthanks#1{\footnotemark
16299   \protected@xdef\@thanks{\@thanks
16300     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16301 }
16302 \def\LTRfootnotetext{%
16303   \@ifnextchar [\@xLTRfootnotenext
16304     {\protected@xdef\@thefnmark{\thempfn}%
16305     \@LTRfootnotetext}}
16306 \def\@xLTRfootnotenext[#1]{%
16307   \begingroup
16308     \csname c@\@mpfn\endcsname #1\relax
16309     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16310   \endgroup
16311   \@LTRfootnotetext}
16312 \def\RTLthanks#1{\footnotemark
16313   \protected@xdef\@thanks{\@thanks
16314     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16315 }
16316 \let\@thanks\@empty
16317 \def\RTLfootnotetext{%
16318   \@ifnextchar [\@xRTLfootnotenext
16319     {\protected@xdef\@thefnmark{\thempfn}%
16320     \@RTLfootnotetext}}
16321 \def\@xRTLfootnotenext[#1]{%
16322   \begingroup
16323     \csname c@\@mpfn\endcsname #1\relax
16324     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16325   \endgroup
16326   \@RTLfootnotetext}
16327 \leftfootnoterule

```

96 File footnotebackref-xetex-bidi.def

```

16328 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16329 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16330 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16331
16332 \renewcommand*\LTRfootnote{%
16333   \refstepcounter{BackrefHyperFootnoteCounter}%
16334   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16335   \label{\BackrefFootnoteTag}%
16336   \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote]}
16337
16338 \renewcommand*\RTLfootnote{%
16339   \refstepcounter{BackrefHyperFootnoteCounter}%
16340   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16341   \label{\BackrefFootnoteTag}%
16342   \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote]}
16343 \newcommand\Backref@HyperLTRFootnote[1]{%
16344   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16345
16346 \newcommand\Backref@HyperRTLFootnote[1]{%

```



```

16347 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16348
16349 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16350 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16351
16352 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16353 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16354
16355 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16356 \ifFootnoteBackref@numberlinked
16357 \renewcommand{\footfootmark}{%
16358 \ifdim\footmarkwidth < \z@
16359 \llap{\hb@xt@ -\footmarkwidth{%
16360 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16361 \hspace*{-\footmarkwidth}}%
16362 \else
16363 \ifdim\footmarkwidth = \z@
16364 {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16365 \else
16366 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16367 \fi
16368 \fi}
16369 \renewcommand{\LTRfootfootmark}{%
16370 \ifdim\footmarkwidth < \z@
16371 \llap{\hb@xt@ -\footmarkwidth{%
16372 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16373 \hspace*{-\footmarkwidth}}%
16374 \else
16375 \ifdim\footmarkwidth = \z@
16376 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16377 \else
16378 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16379 \fi
16380 \fi}
16381 \renewcommand{\RTLfootfootmark}{%
16382 \ifdim\footmarkwidth < \z@
16383 \llap{\hb@xt@ -\footmarkwidth{%
16384 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16385 \hspace*{-\footmarkwidth}}%
16386 \else
16387 \ifdim\footmarkwidth = \z@
16388 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16389 \else
16390 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16391 \fi
16392 \fi}
16393 \fi
16394 }

```

97 File framed-xetex-bidi.def

```

16395 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16396 \renewcommand\TitleBarFrame[3][\begingroup
16397 \ifx\delimiter#1\delimiter

```



```

16398 \let\TF@conlab\@empty
16399 \else
16400 \def\TF@conlab{% continuation label
16401 \nointerlineskip
16402 \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
16403 \fi
16404 %\let\TF@savecolor\current@color
16405 \textcolor{TFFrameColor}{%
16406 \CustomFBox
16407 {\TF@Title{#2}}{\TF@conlab}%
16408 \fb@rule\fb@rule\fb@rule\fb@rule
16409 %{\let\current@color\TF@savecolor\set@color #3}%
16410 {\normalcolor #3}%
16411 }\endgroup
16412 }
16413 \renewenvironment{titled-frame}[1]{%
16414 \def\FrameCommand{\fb@sep8pt\fb@rule2pt
16415 \TitleBarFrame{\textbf{#1}}}%
16416 \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
16417 \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1}}}%
16418 \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
16419 \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1} (con
16420 \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
16421 \TitleBarFrame{\textbf{#1} (cont)}}}%
16422 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16423 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16424 % could interfere with the width measurement.
16425 {\endMakeFramed}
16426 \chardef\FrameRestore=\catcode`\| % for debug
16427 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16428 \def\fb@put@frame#1#2{\relax
16429 \ifdim\pagegoal=\maxdimen \pagegoal\vspace \fi
16430 | \message{===== Entering putframe =====^~J
16431 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16432 \ifinner
16433 \fb@putboxa#1%
16434 \fb@afterframe
16435 \else
16436 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16437 \ifdim\dimen@<2\baselineskip % Too little room on page
16438 | \message{Page has only \the\dimen@\space room left; eject. }%
16439 \eject \fb@adjheight \fb@put@frame#1#2%
16440 \else % there's appreciable room left on the page
16441 \fb@sizeofframe#1%
16442 | \message{\string\pagetotal=\the\pagetotal,
16443 | \string\pagegoal=\the\pagegoal,
16444 | \string\pagestretch=\the\pagestretch,
16445 | \string\pageshrink=\the\pageshrink,
16446 | \string\fb@frh=\the\fb@frh. \space}
16447 | \message{^~JBox of size \the\ht\@tempboxa\space}%
16448 \begingroup % temporarily set \dimen@ to be...
16449 \advance\dimen@.8\pageshrink % maximum space available on page
16450 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16451 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!

```



```

16452 \expandafter\endgroup
16453 % expand \ifdim, then restore \dimen@ to real room left on page
16454 \ifdim\dimen@>\ht\@tempboxa % whole box does fit
16455 | \message{fits in \the\dimen@. }%
16456 | % ToDo: Change this to use vsplit anyway to capture the marks
16457 | % MERGE THIS WITH THE else CLAUSE!!!
16458 | \fb@putboxa#1%
16459 | \fb@afterframe
16460 \else % box must be split
16461 | \message{must be split to fit in \the\dimen@. }%
16462 | % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16463 | \fb@sizeofframe#2%
16464 | \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16465 | \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16466 | \kern137sp\kern-137sp\penalty-30
16467 | \unvbox\@tempboxa}%
16468 | \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16469 | \splittopskip\the\splittopskip}%
16470 | \boxmaxdepth\z@ \splittopskip\z@
16471 | \message{^^J Padded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
16472 | % Split box here
16473 | \setbox\tw@\vsplit\@tempboxa to\dimen@
16474 | \toks99\expandafter{\splitfirstmark}%
16475 | \toks98\expandafter{\splitbotmark}%
16476 | \message{Marks are: \the\toks99, \the\toks98. }%
16477 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16478 | \message{Natural height of split box is \the\ht\tw@, leaving
16479 | \the\ht\@tempboxa\space remainder. }%
16480 | % If the split-to size > (\vsize-\topskip), then set box to full size.
16481 | \begingroup
16482 | \advance\dimen@\topskip
16483 | \expandafter\endgroup
16484 | \ifdim\dimen@>\pagegoal
16485 | \message{Frame is big -- Use up the full column. }%
16486 | \dimen@ii\pagegoal
16487 | \advance\dimen@ii -\topskip
16488 | \advance\dimen@ii \FrameHeightAdjust\relax
16489 | \else % suspect this is implemented incorrectly:
16490 | % If the split-to size > feasible room_on_page, rebox it smaller.
16491 | \advance\dimen@.8\pageshrink
16492 | \ifdim\ht\tw@>\dimen@
16493 | \message{Box too tall; rebox it to \the\dimen@. }%
16494 | \dimen@ii\dimen@
16495 | \else % use natural size
16496 | \dimen@ii\ht\tw@
16497 | \fi
16498 | \fi
16499 | % Re-box contents to desired size \dimen@ii
16500 | \advance\dimen@ii -\fb@frh
16501 | \setbox\tw@\vbox to\dimen@ii \bgroup
16502 | % remove simulated frame and page flexibility:
16503 | \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16504 | \unvbox\tw@ \unpenalty\unpenalty
16505 | \ifdim\lastkern=-137sp % whole box went to next page

```



```

16506 |         \message{box split at beginning! }%
16507 |         % need work here???
16508 |         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16509 |         \fb@adjheight
16510 |         \fb@put@frame#1#2% INSERTED ???
16511 |     \else % Got material split off at the head
16512 |         \egroup \fb@resto@set
16513 |         \ifvoid\@tempboxa % it all fit after all
16514 |             \message{box split at end! }%
16515 |             \setbox\@tempboxa\box\tw@
16516 |             \fb@putboxa#1%
16517 |             \fb@afterframe
16518 |     \else % it really did split
16519 |         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16520 |         \ifdim\wd\tw@>\z@
16521 |             \wd\tw@\wd\@tempboxa
16522 |             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16523 |         \else
16524 |             \message{Zero width means likely blank. Don't frame it (guess)}%
16525 |             \box\tw@
16526 |         \fi
16527 |         \hrule \@height\z@ \@width\hsize
16528 |         \eject
16529 |         \fb@adjheight
16530 |         \fb@put@frame\LastFrameCommand\MidFrameCommand
16531 |     \fi\fi\fi\fi\fi
16532 | }
16533 | \def\fb@putboxa#1{%
16534 |     \ifvoid\@tempboxa
16535 |         \PackageWarning{framed}{Boxa is void -- discard it. }%
16536 |     \else
16537 |         \message{Frame and place boxa. }%
16538 |         %{\showoutput\showbox\@tempboxa}%
16539 |         \centerline{#1{\hboxL{\box\@tempboxa}}}%
16540 |     \fi
16541 | }
16542 | \catcode\|= \FrameRestore
16543 | \def\FrameRestore{%
16544 |     \let\if@nbreak\iffalse
16545 |     \let\if@noskipsec\iffalse
16546 |     \let\-\@dischph
16547 |     \let'\@acci\let'\@accii\let\=\@acciii
16548 |     % \message{FrameRestore:
16549 |     %     \@totalleftmargin=\the \@totalleftmargin,
16550 |     %     \rightmargin=\the\rightmargin,
16551 |     %     \@listdepth=\the\@listdepth. }%
16552 |     % Test if we are in a list (or list-like paragraph)
16553 |     \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
16554 |         \ifdim\rightmargin>\z@ 1\fi
16555 |         \ifnum\@listdepth>\z@ 1\fi 0>\z@
16556 |     %     \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
16557 |     %         \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16558 |     %         \labelwidth=\the\labelwidth. }%
16559 |     \@setminipage % snug fit around the item

```



```

16560 % Now try to propageate changes of width from \hsize to list parameters.
16561 % This is deficient, but a more advanced way to indicate modification to text
16562 % dimensions is not (yet) provided; in particular, no separate left/right
16563 % adjustment.
16564 \advance\linewidth-\columnwidth \advance\linewidth\hsize
16565 \parshape\@ne \@totalleftmargin \linewidth
16566 \else % Not in list
16567 \linewidth=\hsize
16568 %\message{No list, set \string\linewidth=\the\hsize. }%
16569 \fi
16570 \sloppy
16571 }

```

98 File `ftnright-xetex-bidi.def`

```

16572 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16573
16574 \def\prepare@bidi@copyins{%
16575 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16576 \global\skip\@bidi@copyins@\z@
16577 \global\count\@bidi@copyins@\z@
16578 \global\dimen\@bidi@copyins@\textheight}
16579
16580 \newskip\bidi@rcol@copyinsskip
16581
16582 \def\LTR@outputdblcol{%
16583 \if@firstcolumn
16584 \global\@firstcolumnfalse
16585 \global\setbox\@leftcolumn\copy\@outputbox
16586 \global\count\footins\@m
16587 \global\skip\footins\rcol@footinsskip
16588 \global\count\@bidi@copyins@\@m
16589 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
16590 \splitmaxdepth\maxdimen
16591 \vbadness\maxdimen
16592 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16593 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16594 \toks@\expandafter{\topmark}%
16595 \xdef\@firstcoltopmark{\the\toks@}%
16596 \toks@\expandafter{\splitfirstmark}%
16597 \xdef\@firstcolfirstmark{\the\toks@}%
16598 \ifx\@firstcolfirstmark\@empty
16599 \global\let\@setmarks\relax
16600 \else
16601 \gdef\@setmarks{%
16602 \let\firstmark\@firstcolfirstmark
16603 \let\topmark\@firstcoltopmark}%
16604 \fi
16605 \else
16606 \preparefootins
16607 \prepare@bidi@copyins
16608 \global\@firstcolumntrue
16609 \setbox\@outputbox\vbox{%
16610 \hb@xt@\textwidth{%

```



```

16611     \hb@xt@\columnwidth{%
16612     \bidi@firstcolumn@status@write%
16613     \box\@leftcolumn \hss}%
16614     \hfil
16615     {\normalcolor\vrule \@width\columnseprule}%
16616     \hfil
16617     \hb@xt@\columnwidth{%
16618     \bidi@lastcolumn@status@write%
16619     \box\@outputbox \hss}}}%
16620 \@combinedblfloats
16621     \@setmarks
16622     \@outputpage
16623     \beginingroup
16624     \@dblfloatplacement
16625     \@startdblcolumn
16626     \@whilesw@if@colmade \fi{\@outputpage
16627     \@startdblcolumn}}%
16628     \endgroup
16629 \fi}%
16630
16631 \def\RTL@outputdblcol{%
16632 \if@firstcolumn
16633     \global\@firstcolumnfalse
16634     \global\setbox\@leftcolumn\copy\@outputbox
16635     \global\count\footins\@m
16636     \global\skip\footins\rcol@footinsskip
16637     \global\count\@bidi@copyins@\@m
16638     \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
16639     \splitmaxdepth\maxdimen
16640     \vbadness\maxdimen
16641     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16642     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16643     \toks@\expandafter{\topmark}%
16644     \xdef\@firstcoltopmark{\the\toks@}%
16645     \toks@\expandafter{\splitfirstmark}%
16646     \xdef\@firstcolfirstmark{\the\toks@}%
16647     \ifx\@firstcolfirstmark\@empty
16648         \global\let\@setmarks\relax
16649     \else
16650         \gdef\@setmarks{%
16651             \let\firstmark\@firstcolfirstmark
16652             \let\topmark\@firstcoltopmark}%
16653     \fi
16654 \else
16655     \preparefootins
16656     \prepare@bidi@copyins
16657     \global\@firstcolumntrue
16658     \setbox\@outputbox\vbox{%
16659     \hb@xt@\textwidth{%
16660     \hskip \columnwidth
16661     \hfil
16662     {\normalcolor\vrule \@width\columnseprule}%
16663     \hfil
16664     \hb@xt@\columnwidth{%

```



```

16665     \bidi@firstcolumn@status@write%
16666     \box\@leftcolumn \hss}%
16667     \hskip -\textwidth
16668     \hb@xt@\columnwidth{%
16669     \bidi@lastcolumn@status@write%
16670     \box\@outputbox \hss}%
16671     \hskip \columnsep
16672     \hskip \columnwidth }}%
16673 \@combinedblfloats
16674 \setmarks
16675 \outputpage
16676 \begingroup
16677 \@dblfloatplacement
16678 \@startdblcolumn
16679 \@whilesw@if@fcolmade \fi{\@outputpage
16680 \startdblcolumn}%
16681 \endgroup
16682 \fi}%
16683
16684 \def\@startcolumn{%
16685 \ifx\@deferlist\@empty
16686 \global\@fcolmadefalse
16687 \global\@colroom\@colht
16688 \else
16689 \ifvoid\footins\else
16690 \ftn@amount\ht\footins
16691 \advance\ftn@amount\dp\footins
16692 \advance\ftn@amount\skip\footins
16693 \fi
16694 \ifvoid\@bidi@copyins@\else
16695 \bidi@copyins@amount\ht\@bidi@copyins@
16696 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16697 \advance\bidi@copyins@amount\skip\@bidi@copyins@
16698 \fi
16699 \global\advance\@colht-\ftn@amount
16700 \global\advance\@colht-\bidi@copyins@amount
16701 \global\@colroom\@colht
16702 \xstartcol
16703 \global\advance\@colht\ftn@amount
16704 \global\advance\@colroom\ftn@amount
16705 \global\advance\@colht\bidi@copyins@amount
16706 \global\advance\@colroom\bidi@copyins@amount
16707 \fi
16708 \if@fcolmade
16709 \setbox\@cclv\box\@outputbox
16710 \makecol
16711 \else
16712 \ifvoid\footins\else
16713 \insert\footins{\unvbox\footins}\fi
16714 \ifvoid\@bidi@copyins@\else
16715 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
16716 \fi}
16717
16718 \newdimen\bidi@copyins@amount

```




```

16719
16720 \def\@makecol{\if@firstcolumn
16721   \setbox\@outputbox\box\@cclv
16722   \if@twocolumn \else
16723     \ifvoid\footins \else
16724       \@latexerr{ftnright package
16725         used in one-column mode}}%
16726   {The ftnright package was designed to
16727     work with LaTeX's standard^^Jtwocolumn
16728     option. It does *not* work with the
16729     multicol package.^^JSo please specify
16730     `twocolumn' in the
16731     \noexpand\documentclass command.}%
16732   \shipout\box\footins \fi
16733   \ifvoid\@bidi@copyins@ \else
16734     \@latexerr{ftnright package
16735       used in one-column mode}}%
16736   {The ftnright package was designed to
16737     work with LaTeX's standard^^Jtwocolumn
16738     option. It does *not* work with the
16739     multicol package.^^JSo please specify
16740     `twocolumn' in the
16741     \noexpand\documentclass command.}%
16742   \shipout\box\@bidi@copyins@ \fi\fi
16743   \ifnum\insertpenalties>\z@
16744     \@latexerr{ftnright package
16745       scrambled footnotes}}%
16746   {There is too much footnote material in
16747     the first column and ftnright^^Jis
16748     unable to cope with this.^^JYou need
16749     to reduce the amount to get a properly
16750     formatted page.}%
16751   \fi
16752 \else
16753   \ifvoid\footins
16754     \ifvoid\@bidi@copyins@
16755       \setbox\@outputbox\box\@cclv
16756     \else
16757       \setbox\@outputbox\vbox
16758       {\ifvoid\@cclv \else
16759         \unvbox\@cclv
16760         \vskip \skip\@bidi@copyins@
16761       \fi
16762         \color@begingroup
16763         \normalcolor
16764         \unvbox \@bidi@copyins@
16765         \color@endgroup}}%
16766   \fi
16767 \else
16768   \setbox\@outputbox\vbox
16769   {\ifvoid\@cclv \else
16770     \unvbox\@cclv
16771     \vskip\skip\footins\fi
16772     \color@begingroup

```



```

16773     \normalcolor
16774     \footnoterule\unvbox\footins
16775     \color@endgroup
16776     \ifvoid\@bidi@copyins@
16777     \else
16778         \vskip \skip\@bidi@copyins@
16779         \color@begingroup
16780         \normalcolor
16781         \unvbox \@bidi@copyins@
16782         \color@endgroup
16783     \fi
16784 }%
16785 \fi
16786 \fi
16787 \xdef\@freelist{\@freelist\@midlist}%
16788 \global \let \@midlist \@empty
16789 \@combinefloats
16790 \ifvbox\@kludgeins
16791     \@makespecialcolbox
16792 \else
16793     \setbox\@outputbox\vbox to\@colht
16794     {\boxmaxdepth\maxdepth
16795     \@texttop
16796     \@tempdima\dp\@outputbox
16797     \unvbox\@outputbox
16798     \vskip-\@tempdima
16799     \@textbottom}%
16800 \fi
16801 \global\maxdepth\@maxdepth}
16802
16803 \let\leftfootnoterule\@empty
16804 \let\rightfootnoterule\@empty
16805 \let\textwidthfootnoterule\@empty
16806 \let\autofootnoterule\@empty
16807 \let\footnoterule\@empty
16808 \long\def\@makefntext#1{\parindent 1em
16809     \noindent\hbox to 2em{}}%
16810     \llap{\@thefnmark\hbox{.}\,\,}#1}
16811
16812 \setlength{\skip\@bidi@copyins@}
16813     {10pt plus 5pt minus 3pt}
16814 \AtBeginDocument{\prepare@bidi@copyins}

```

99 File graphicx-xetex-bidi.def

```

16815 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16816 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16817     \Grot@setangle{#1}%
16818     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16819     \Grot@x\z@
16820     \Grot@y\z@
16821     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16822 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16823     \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL

```



```

16824 \Grot@x\width \divide\Grot@x\tw@
16825 \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16826 \setkeys{Grot}{#1}%
16827 \setbox\z@\box\@tempboxa
16828 \Grot@setangle{#2}%
16829 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16830 \@end@tempboxa}
16831 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16832 \leavevmode
16833 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16834 \setbox\z@\hbox{#3}%
16835 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16836 \ifdim#2\p@<\z@
16837 \ht\tw@-#2\dp\z@
16838 \dp\tw@-#2\ht\z@
16839 \else
16840 \ht\tw@#2\ht\z@
16841 \dp\tw@#2\dp\z@
16842 \fi
16843 \ifdim#1\p@<\z@
16844 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16845 \else
16846 \wd\tw@#1\wd\z@
16847 \box\tw@
16848 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16849 \def\Gin@iii[#1,#2][#3,#4]#5{%
16850 \begingroup
16851 \ifmmode\else\if@RTL\beginL\fi\fi
16852 \Gin@bboxtrue
16853 \Gin@defaultbp\Gin@llx{#1}%
16854 \Gin@defaultbp\Gin@lly{#2}%
16855 \Gin@defaultbp\Gin@urx{#3}%
16856 \Gin@defaultbp\Gin@ury{#4}%
16857 \Gin@include@graphics{#5}%
16858 \ifmmode\else\if@RTL\endL\fi\fi
16859 \endgroup}
16860 \def\Gin@ii[#1]#2{%
16861 \def\@tempa{[]}\def\@tempb{#2}%
16862 \ifx\@tempa\@tempb
16863 \def\@tempa{\Gin@iii[#1][ ]}%
16864 \expandafter\@tempa
16865 \else
16866 \begingroup
16867 \ifmmode\else\if@RTL\beginL\fi\fi
16868 \@tempswafalse
16869 \toks@{\Gin@include@graphics{#2}}%
16870 \setkeys{Gin}{#1}%
16871 \Gin@esetsize
16872 \the\toks@
16873 \ifmmode\else\if@RTL\endL\fi\fi
16874 \endgroup
16875 \fi}
16876 \def\reflectbox{\bidiGscale@box-1[1]}
16877 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%

```



```

16878 \leavevmode
16879 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16880 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16881 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16882 \ifdim#2\p@<\z@
16883 \ht\tw@-#2\dp\z@
16884 \dp\tw@-#2\ht\z@
16885 \else
16886 \ht\tw@#2\ht\z@
16887 \dp\tw@#2\dp\z@
16888 \fi
16889 \ifdim#1\p@<\z@
16890 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16891 \else
16892 \wd\tw@#1\wd\z@
16893 \box\tw@
16894 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16895 \def\scalebox#1{%
16896 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
16897 \def\resizebox{%
16898 \leavevmode
16899 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16900 \def\bidiGscale@@box#1#2#3{%
16901 \let\@tempa\Gin@exclamation
16902 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16903 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16904 \ifx\@tempb\@tempa
16905 \ifx\@tempc\@tempa
16906 \toks@{\mbox}%
16907 \else
16908 \toks@{\bidiGscale@box@dd{#3}#1}%
16909 \fi
16910 \else
16911 \ifx\@tempc\@tempa
16912 \toks@{\bidiGscale@box@dd{#2}\width}%
16913 \else
16914 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
16915 \fi
16916 \fi
16917 \the\toks@}
16918 \long\def\bidiGscale@box@dd#1#2#3{%
16919 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16920 \setlength\@tempdima{#1}%
16921 \setlength\@tempdimb{#2}%
16922 \Gscale@div\@tempa\@tempdima\@tempdimb
16923 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16924 \@end@tempboxa}
16925 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
16926 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL
16927 \setlength\@tempdima{#1}%
16928 \setlength\@tempdimb{#2}%
16929 \Gscale@div\@tempa\@tempdima\@tempdimb
16930 \setlength\@tempdima{#3}%
16931 \setlength\@tempdimb{#4}%

```



```

16932 \Gscale@div\@tempb\@tempdima\@tempdimb
16933 \ifGin@iso
16934 \ifdim\@tempa\p@>\@tempb\p@
16935 \let\@tempa\@tempb
16936 \else
16937 \let\@tempb\@tempa
16938 \fi
16939 \fi
16940 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16941 \@end@tempboxa}

```

100 File geometry-xetex-bidi.def

```

16942 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16943 \renewcommand*\Gm@vrules@mpi}{%
16944 \if@RTLmain%
16945 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16946 \llap{\Gm@vrule}\ignorespaces
16947 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16948 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16949 \else%
16950 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16951 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16952 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16953 \renewcommand*\Gm@vrules@mpi}{%
16954 \if@RTLmain%
16955 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16956 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16957 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16958 \else%
16959 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16960 \llap{\Gm@vrule}\ignorespaces
16961 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16962 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16963 \bidi@patchcmd{\Gm@pageframes}{%
16964 \ifodd\count\z@
16965 \let\@themargin\oddsidemargin
16966 \else
16967 \let\@themargin\evensidemargin
16968 \fi
16969 }{%
16970 \ifodd\count\z@
16971 \if@RTLmain
16972 \let\@themargin\evensidemargin
16973 \else
16974 \let\@themargin\oddsidemargin
16975 \fi
16976 \else
16977 \if@RTLmain
16978 \let\@themargin\oddsidemargin
16979 \else
16980 \let\@themargin\evensidemargin
16981 \fi
16982 \fi

```



16983 }{}{}

101 File hvfloat-xetex-bidi.def

```
16984 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16985 \def\do@hvFloat[#1]#2#3{%
16986 \def\hv@shortCap{#1}
16987 \def\hv@longCap{#2}
16988 \def\hv@label{#3}
16989 %\newcommand*{\hvFloat}[5] []{%
16990 % [#1]: keyvalues
16991 % #2: type figure | table | ...
16992 % #3: float contents
16993 % [#4]: short caption
16994 % #5: caption
16995 % #6: label
16996 % \setDefault%
16997 % \def\@tempa{#1}%
16998 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16999 \def\@tempa{90}%
17000 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
17001 \else \setlength{\hvMaxCapWidth}{\linewidth}
17002 \fi
17003 %
17004 % First we save the object in \hvObjectBox
17005 %
17006 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
17007 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
17008 \else
17009 \savebox{\hvObjectBox}{%
17010 \rotatebox{\hvSet@objectAngle}{%
17011 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
17012 \fi
17013 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
17014 %
17015 % Now we save the caption with its defined \hvCapWidth
17016 %
17017 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
17018 \else
17019 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
17020 \else
17021 \setlength{\hvCapWidth}{\hvObjectWidth}
17022 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17023 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17024 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
17025 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17026 \else
17027 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17028 \fi
17029 \fi
17030 \fi
17031 %
17032 % now we have the object and the caption with the right
17033 % rotated angles saved in boxes
```



```

17034 %
17035 \def\fps@figure{\hvSet@floatPos}
17036 \ifhv@nonFloat\begin{group} Start the nonfloat part
17037 \else \begin{\hv@floatType}% Start the floating environment
17038 \fi%
17039 \saveCaptionSkip% we put this space ourselves
17040 \ifx\hvSet@capAngle\hv@Width % need rotation?
17041 \sbox{\hvCaptionBox}{%
17042 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17043 \ifhv@nonFloat%
17044 \ifhv@onlyText#2%
17045 \else%
17046 \ifx\hv@floatType\hv@figure
17047 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17048 \else
17049 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17050 \fi
17051 \fi
17052 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17053 \fi%
17054 \label{#3}%
17055 \end{minipage}%
17056 }%
17057 \else%
17058 \sbox{\hvCaptionBox}{%
17059 \rotatebox{\hvSet@capAngle}{%
17060 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17061 \ifhv@nonFloat%
17062 \ifhv@onlyText#2%
17063 \else%
17064 \ifx\hv@floatType\hv@figure
17065 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17066 \else
17067 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17068 \fi
17069 \fi
17070 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17071 \fi%
17072 \label{#3}%
17073 \end{minipage}%
17074 }%
17075 }%
17076 \fi%
17077 %%
17078 \restoreCaptionSkip% save old values
17079 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17080 \else%
17081 \ifx\hvSet@objectPos\hv@Center
17082 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17083 \fi%
17084 \fi%
17085 %
17086 % to rotate object and caption together, we save all in another box
17087 % the caption comes first, if its on the left or the top

```



```

17088 %
17089 \savebox{\@tempboxa}{%
17090 \ifx\hvSet@capPos\hv@Left % caption on left side
17091 \if@RTL%
17092 \ifx\hvSet@capVPos\hv@Center%
17093 \ifhv@fbox
17094 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17095 \else
17096 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17097 \fi%
17098 \hspace{\hvSet@floatCapSep pt}%
17099 \ifhv@fbox
17100 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17101 \else
17102 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17103 \fi%
17104 \else%
17105 \ifx\hvSet@capVPos\hv@Top
17106 \ifhv@fbox
17107 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17108 \else
17109 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17110 \fi%
17111 \hspace{\hvSet@floatCapSep pt}%
17112 \ifhv@fbox
17113 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17114 \else
17115 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17116 \fi
17117 \else
17118 \ifhv@fbox
17119 \fbox{\usebox{\hvObjectBox}}%
17120 \else
17121 \usebox{\hvObjectBox}%
17122 \fi
17123 \hspace{\hvSet@floatCapSep pt}%
17124 \ifhv@fbox
17125 \fbox{\usebox{\hvCaptionBox}}%
17126 \else
17127 \usebox{\hvCaptionBox}%
17128 \fi%
17129 \fi%
17130 \fi%
17131 \else% not RTL
17132 \ifx\hvSet@capVPos\hv@Center%
17133 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17134 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17135 \fi%
17136 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17137 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17138 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17139 \fi%
17140 \else%
17141 \ifx\hvSet@capVPos\hv@Top % caption at top

```




```

17142     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17143     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17144     \fi
17145     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17146     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17147     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17148     \fi%
17149     \else% caption on bottom
17150     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17151         \else\usebox{\hvCaptionBox}
17152     \fi%
17153     \hspace{\hvSet@floatCapSep pt}%
17154     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17155     \else     \usebox{\hvObjectBox}
17156     \fi%
17157     \fi%
17158 \fi% end of RTL
17159 \fi%
17160 \else
17161     \ifx\hvSet@capPos\hv@Top
17162     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17163     \begin{minipage}{\wd\hvCaptionBox}
17164     \else
17165     \begin{minipage}{\wd\hvObjectBox}
17166     \fi
17167     \centering
17168     \ifhv@fbox
17169     \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17170     \fbbox{\usebox{\hvObjectBox}}
17171     \else
17172     \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17173     \usebox{\hvObjectBox}
17174     \fi%
17175     \end{minipage}
17176     \else
17177     \ifx\hvSet@capPos\hv@Bottom
17178     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17179     \begin{minipage}{\wd\hvCaptionBox}
17180     \else
17181     \begin{minipage}{\wd\hvObjectBox}
17182     \fi
17183     \centering
17184     \ifhv@fbox
17185     \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17186     \fbbox{\usebox{\hvCaptionBox}}
17187     \else
17188     \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17189     \usebox{\hvCaptionBox}
17190     \fi%
17191     \end{minipage}
17192     \else% the last option: put the caption on the right
17193 \if@RTL%
17194     \ifx\hvSet@capVPos\hv@Center%
17195     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%

```



```

17196     \else      \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17197     \fi%
17198     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17199     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17200     \else      \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17201     \fi%
17202     \else%
17203     \ifx\hvSet@capVPos\hv@Top % caption at top
17204     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17205     \else      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17206     \fi
17207     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17208     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17209     \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
17210     \fi%
17211     \else% caption on bottom
17212     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17213     \else\usebox{\hvCaptionBox}
17214     \fi%
17215     \hspace{\hvSet@floatCapSep pt}%
17216     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17217     \else      \usebox{\hvObjectBox}
17218     \fi%
17219     \fi%
17220     \fi%
17221 \else% not RTL
17222     \ifx\hvSet@capVPos\hv@Center%
17223     \ifhv@fbox
17224     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17225     \else
17226     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17227     \fi%
17228     \hspace{\hvSet@floatCapSep pt}%
17229     \ifhv@fbox
17230     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17231     \else
17232     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17233     \fi%
17234     \else%
17235     \ifx\hvSet@capVPos\hv@Top
17236     \ifhv@fbox
17237     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17238     \else
17239     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17240     \fi%
17241     \hspace{\hvSet@floatCapSep pt}%
17242     \ifhv@fbox
17243     \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17244     \else
17245     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17246     \fi
17247     \else
17248     \ifhv@fbox
17249     \fbbox{\usebox{\hvObjectBox}}%

```



```

17250     \else
17251       \usebox{\hvObjectBox}%
17252     \fi
17253     \hspace{\hvSet@floatCapSep pt}%
17254     \ifhv@fbox
17255       \fbox{\usebox{\hvCaptionBox}}%
17256     \else
17257       \usebox{\hvCaptionBox}%
17258     \fi%
17259   \fi%
17260 \fi
17261 \fi% end of RTL
17262   \fi
17263 \fi
17264 \fi
17265 }% End savebox Object and caption
17266 %
17267 % now we rotate the object and caption, if needed
17268 %
17269 \ifx\hvSet@rotAngle\hv@Zero
17270   \usebox{\@tempboxa}
17271 \else
17272   \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17273 \fi
17274 \ifhv@nonFloat
17275   \ifx\hvSet@objectPos\hv@Center
17276     \ifhv@nonFloat
17277       \hspace{\fill}
17278     \fi
17279   \fi
17280 \endgroup% End the nonfloat part
17281 \else
17282 \end{\hv@floatType}% End the floating environment
17283 \fi
17284 }

```

102 File hyperref-xetex-bidi.def

```

17285 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17286 \AtBeginDocument{%
17287 \def\contentsline#1#2#3#4{%
17288   \ifx\#4\%
17289     \csname l@#1\endcsname{#2}{#3}%
17290   \else
17291     \ifcase\Hy@linktoc % none
17292       \csname l@#1\endcsname{#2}{#3}%
17293     \or % section
17294       \csname l@#1\endcsname{%
17295         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17296       }{#3}%
17297     \or % page
17298       \csname l@#1\endcsname{#2}{#3}%
17299       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17300     }%

```



```

17301 \else % all
17302 \csname l@#1\endcsname{%
17303 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17304 }{%
17305 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17306 }%
17307 \fi
17308 \fi
17309 }
17310 \ifHy@hyperfootnotes
17311 \let\H@@footnotetext\@footnotetext
17312 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17313 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17314 \def\xfootnotenext[#1]{%
17315 \begingroup
17316 \csname c@\@mpfn\endcsname #1\relax
17317 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17318 \endgroup
17319 \ifx\@footnotetext\@mpfootnotetext
17320 \expandafter\H@@mpfootnotetext
17321 \else
17322 \expandafter\H@@footnotetext
17323 \fi
17324 }%
17325 \def\xRTLfootnotenext[#1]{%
17326 \begingroup
17327 \csname c@\@mpfn\endcsname #1\relax
17328 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17329 \endgroup
17330 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17331 \expandafter\HRTL@mpRTLfootnotetext
17332 \else
17333 \expandafter\HRTL@RTLfootnotetext
17334 \fi
17335 }%
17336 \def\xLTRfootnotenext[#1]{%
17337 \begingroup
17338 \csname c@\@mpfn\endcsname #1\relax
17339 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17340 \endgroup
17341 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17342 \expandafter\HLTR@mpLTRfootnotetext
17343 \else
17344 \expandafter\HLTR@LTRfootnotetext
17345 \fi
17346 }%
17347 \def\xfootnotemark[#1]{%
17348 \begingroup
17349 \c@footnote #1\relax
17350 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
17351 \endgroup
17352 \H@@footnotemark
17353 }%
17354 \let\H@@mpfootnotetext\@mpfootnotetext

```



```

17355 \let\HRTL@mpRTLfootnotetext\mpRTLfootnotetext
17356 \let\HLTR@mpLTRfootnotetext\mpLTRfootnotetext
17357 \long\def\mpfootnotetext#1{%
17358   \H@mpfootnotetext{%
17359     \ifHy@nesting
17360       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17361     \else
17362       \Hy@raisedlink{%
17363         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17364       }#1%
17365     \fi
17366   }%
17367 }%
17368 \long\def\@mpRTLfootnotetext#1{%
17369   \HRTL@mpRTLfootnotetext{%
17370     \ifHy@nesting
17371       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17372     \else
17373       \Hy@raisedlink{%
17374         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17375       }#1%
17376     \fi
17377   }%
17378 }%
17379 \long\def\@mpLTRfootnotetext#1{%
17380   \HLTR@mpLTRfootnotetext{%
17381     \ifHy@nesting
17382       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17383     \else
17384       \Hy@raisedlink{%
17385         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17386       }#1%
17387     \fi
17388   }%
17389 }%
17390 \long\def\@footnotetext#1{%
17391   \H@footnotetext{%
17392     \ifHy@nesting
17393       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17394     \else
17395       \Hy@raisedlink{%
17396         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17397       }%
17398       \let\@currentHlabel\Hy@footnote@currentHlabel
17399       \let\@currentHref\Hy@footnote@currentHref
17400       \let\@currentlabelname\@empty
17401       #1%
17402     \fi
17403   }%
17404 }%
17405 \long\def\@RTLfootnotetext#1{%
17406   \HRTL@RTLfootnotetext{%
17407     \ifHy@nesting
17408       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%

```



```

17409     \else
17410         \Hy@raisedlink{%
17411             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17412         }%
17413         \let\@currentHlabel\Hy@footnote@currentHlabel
17414         \let\@currentHref\Hy@footnote@currentHref
17415         \let\@currentlabelname\@empty
17416         #1%
17417     \fi
17418 }%
17419 }%
17420 \long\def\@LTRfootnotetext#1{%
17421 \HLTR@@LTRfootnotetext{%
17422     \ifHy@nesting
17423         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17424     \else
17425         \Hy@raisedlink{%
17426             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17427         }%
17428         \let\@currentHlabel\Hy@footnote@currentHlabel
17429         \let\@currentHref\Hy@footnote@currentHref
17430         \let\@currentlabelname\@empty
17431         #1%
17432     \fi
17433 }%
17434 }%
17435 \ApplyPatchCodeToPackage{tabularx}{%
17436 \let\HyOrg@TX@endtabularx\TX@endtabularx
17437 \def\Hy@tabularx@hook{%
17438     \let\@footnotetext\H@@footnotetext
17439     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17440     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17441     \let\@footnotemark\H@@footnotemark
17442     \let\@mpfootnotetext\H@@mpfootnotetext
17443     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
17444     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
17445 }%
17446 \begingroup
17447 \toks@ \expandafter{\TX@endtabularx}%
17448 \xdef\Hy@gtemp{%
17449     \noexpand\Hy@tabularx@hook
17450     \the\toks@
17451 }%
17452 \endgroup
17453 \let\TX@endtabularx\Hy@gtemp
17454 }%
17455 \ApplyPatchCodeToPackage{longtable}{%
17456 \CheckCommand{\LT@p@LTRftntext}[1]{%
17457     \edef\@tempa{%
17458         \the\LT@p@ftn
17459         \noexpand\LTRfootnotetext[\the\c@footnote]}%
17460 }%
17461 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17462 }%

```



```

17463 \long\def\LT@p@LTRftntext#1{%
17464 \edef\@tempa{%
17465 \the\LT@p@ftn
17466 \begingroup
17467 \noexpand\c@footnote=\the\c@footnote\relax
17468 \noexpand\protected@xdef\noexpand\@thefnmark{%
17469 \noexpand\thempfn
17470 }%
17471 \noexpand\Hy@LT@LTRfootnotetext{%
17472 \Hy@footnote@currentHref
17473 }%
17474 }%
17475 \global\LT@p@ftn\expandafter{%
17476 \@tempa{#1}%
17477 \endgroup
17478 }%
17479 }%
17480 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17481 \HLTR@@LTRfootnotetext{%
17482 \ifHy@nesting
17483 \hyper@@anchor{#1}{#2}%
17484 \else
17485 \Hy@raisedlink{%
17486 \hyper@@anchor{#1}{\relax}%
17487 }%
17488 \def\@currentHref{#1}%
17489 \let\@currentlabelname\@empty
17490 #2%
17491 \fi
17492 }%
17493 }%
17494 \CheckCommand{\LT@p@RTLftntext}[1]{%
17495 \edef\@tempa{%
17496 \the\LT@p@ftn
17497 \noexpand\RTLfootnotetext[\the\c@footnote]%
17498 }%
17499 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17500 }%
17501 \long\def\LT@p@RTLftntext#1{%
17502 \edef\@tempa{%
17503 \the\LT@p@ftn
17504 \begingroup
17505 \noexpand\c@footnote=\the\c@footnote\relax
17506 \noexpand\protected@xdef\noexpand\@thefnmark{%
17507 \noexpand\thempfn
17508 }%
17509 \noexpand\Hy@LT@RTLfootnotetext{%
17510 \Hy@footnote@currentHref
17511 }%
17512 }%
17513 \global\LT@p@ftn\expandafter{%
17514 \@tempa{#1}%
17515 \endgroup
17516 }%

```



```

17517 }%
17518 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17519 \HRTL@RTLfootnotetext{%
17520 \ifHy@nesting
17521 \hyper@@anchor{#1}{#2}%
17522 \else
17523 \Hy@raisedlink{%
17524 \hyper@@anchor{#1}{\relax}%
17525 }%
17526 \def\@currentHref{#1}%
17527 \let\@currentlabelname\@empty
17528 #2%
17529 \fi
17530 }%
17531 }%
17532 }%
17533 \ApplyPatchCodeToPackage{bidipoem}{%
17534 \long\def\bidipoem@p@ftntext#1{%
17535 \edef\@tempx{%
17536 \the\bidipoem@p@ftn
17537 \begingroup
17538 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17539 \noexpand\protected@xdef\noexpand\@thefnmark{%
17540 \noexpand\thempfn
17541 }%
17542 \noexpand\Hy@bidipoem@footnotetext{%
17543 \Hy@footnote@currentHref
17544 }%
17545 }%
17546 \global\bidipoem@p@ftn\expandafter{%
17547 \@tempx{#1}%
17548 \endgroup
17549 }%
17550 }%
17551 \long\def\Hy@bidipoem@footnotetext#1#2{%
17552 \H@footnotetext{%
17553 \ifHy@nesting
17554 \hyper@@anchor{#1}{#2}%
17555 \else
17556 \Hy@raisedlink{%
17557 \hyper@@anchor{#1}{\relax}%
17558 }%
17559 \def\@currentHref{#1}%
17560 \let\@currentlabelname\@empty
17561 #2%
17562 \fi
17563 }%
17564 }%
17565 \long\def\bidipoem@p@LTRftntext#1{%
17566 \edef\@tempxi{%
17567 \the\bidipoem@p@ftn
17568 \begingroup
17569 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17570 \noexpand\protected@xdef\noexpand\@thefnmark{%

```




```

17571         \noexpand\thempfn
17572     }%
17573     \noexpand\Hy@bidipoem@LTRfootnotetext{%
17574         \Hy@footnote@currentHref
17575     }%
17576 }%
17577 \global\bidipoem@p@ftn\expandafter{%
17578     \@tempxi{#1}%
17579 \endgroup
17580 }%
17581 }%
17582 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17583     \HLTR@LTRfootnotetext{%
17584         \ifHy@nesting
17585             \hyper@@anchor{#1}{#2}%
17586         \else
17587             \Hy@raisedlink{%
17588                 \hyper@@anchor{#1}{\relax}%
17589             }%
17590             \def\@currentHref{#1}%
17591             \let\@currentlabelname\@empty
17592             #2%
17593         \fi
17594     }%
17595 }%
17596 \long\def\bidipoem@p@RTLftntext#1{%
17597 \edef\@tempxii{%
17598     \the\bidipoem@p@ftn
17599 \begingroup
17600     \noexpand\c@name c@\@mpfn\endcsname=\the\c@name c@\@mpfn\endcsname\relax
17601     \noexpand\protected@xdef\noexpand\@thefnmark{%
17602         \noexpand\thempfn
17603     }%
17604     \noexpand\Hy@bidipoem@RTLfootnotetext{%
17605         \Hy@footnote@currentHref
17606     }%
17607 }%
17608 \global\bidipoem@p@ftn\expandafter{%
17609     \@tempxii{#1}%
17610 \endgroup
17611 }%
17612 }%
17613 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17614     \HRTL@RTLfootnotetext{%
17615         \ifHy@nesting
17616             \hyper@@anchor{#1}{#2}%
17617         \else
17618             \Hy@raisedlink{%
17619                 \hyper@@anchor{#1}{\relax}%
17620             }%
17621             \def\@currentHref{#1}%
17622             \let\@currentlabelname\@empty
17623             #2%
17624         \fi

```



```

17625     }%
17626     }%
17627 }%
17628 \let\HyOrg@maketitle\maketitle
17629 \def\maketitle{%
17630   \let\Hy@saved@footnotemark\@footnotemark
17631   \let\Hy@saved@footnotetext\@footnotetext
17632   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17633   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17634   \let\@footnotemark\H@\@footnotemark
17635   \let\@footnotetext\H@\@footnotetext
17636   \let\@RTLfootnotetext\HRTL@\@RTLfootnotetext
17637   \let\@LTRfootnotetext\HLTR@\@LTRfootnotetext
17638   \@ifnextchar[\Hy@maketitle@optarg{% ]
17639     \HyOrg@maketitle
17640     \Hy@maketitle@end
17641   }%
17642 }%
17643 \def\Hy@maketitle@optarg[#1]{%
17644   \HyOrg@maketitle[#{1}]%
17645   \Hy@maketitle@end
17646 }%
17647 \def\Hy@maketitle@end{%
17648   \ifx\@footnotemark\H@\@footnotemark
17649     \let\@footnotemark\Hy@saved@footnotemark
17650     \fi
17651   \ifx\@footnotetext\H@\@footnotetext
17652     \let\@footnotetext\Hy@saved@footnotetext
17653     \fi
17654   \ifx\@RTLfootnotetext\HRTL@\@RTLfootnotetext
17655     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17656     \fi
17657   \ifx\@LTRfootnotetext\HLTR@\@LTRfootnotetext
17658     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17659     \fi
17660 }%
17661 \def\realfootnote{%
17662   \@ifnextchar[\@xfootnote{%
17663     \stepcounter{\@mpfn}%
17664     \protected@xdef\@thefnmark{\thempfn}%
17665     \H@\@footnotemark\H@\@footnotetext
17666   }%
17667 }%
17668 \fi
17669 \def\Hy@BeginAnnot#1{%
17670   \ifmmode\else\beginL\fi%
17671   \global\advance\c@Hy@AnnotLevel\@ne
17672   \ifnum\c@Hy@AnnotLevel=\@ne
17673     #1%
17674   \fi
17675 }
17676 \def\Hy@endAnnot{%
17677   \ifnum\c@Hy@AnnotLevel=\@ne
17678     \Hy@endcolorlink

```



```

17679   \@pdfm@mark{eann}%
17680   \fi
17681   \global\advance\c@Hy@AnnotLevel\m@ne
17682   \ifmmode\else\endL\fi%
17683 }
17684 \def\hyper@link#1#2#3{%
17685   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
17686 }
17687 \def\hyper@linkfile#1#2#3{%
17688   \leavevmode
17689   \Hy@BeginAnnot{%
17690     \def\Hy@pstringF{#2}%
17691     \Hy@CleanupFile\Hy@pstringF
17692     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17693     \Hy@pstringdef\Hy@pstringD{#3}%
17694     \Hy@MakeRemoteAction
17695     \@pdfm@mark{%
17696       bann<<%
17697         /Type/Annot%
17698         /Subtype/Link%
17699         \ifHy@pdfa /F 4\fi
17700         \Hy@setpdfborder
17701         \ifx\@filebordercolor\relax
17702           \else
17703             /C[\@filebordercolor]%
17704           \fi
17705         /A<<%
17706         /S/GoToR%
17707         /F(\Hy@pstringF)%
17708         /D%
17709         \ifx\#3\%
17710           [\Hy@href@page\@pdfremotestartview]%
17711         \else
17712           (\Hy@pstringD)%
17713         \fi
17714         \Hy@SetNewWindow
17715         \Hy@href@nextactionraw
17716       >>%
17717     >>%
17718   }%
17719   \Hy@colorlink\@filecolor
17720 }%
17721 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17722 \Hy@endAnnot
17723 }
17724 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17725   \leavevmode
17726   \Hy@BeginAnnot{%
17727     \Hy@pstringdef\Hy@pstringF{#1}%
17728     \Hy@pstringdef\Hy@pstringP{#3}%
17729     \@pdfm@mark{%
17730       bann<<%
17731         /Type/Annot%
17732         /Subtype/Link%

```



```

17733     \ifHy@pdfa /F 4\fi
17734     \Hy@setpdfborder
17735     \ifx\@runbordercolor\relax
17736     \else
17737         /C[\@runbordercolor]%
17738     \fi
17739     /A<<%
17740     /F(\Hy@pstringF)%
17741     /S/Launch%
17742     \Hy@SetNewWindow
17743     \ifx\#3\%
17744     \else
17745         /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17746     \fi
17747     \Hy@href@nextactionraw
17748     >>%
17749     >>%
17750     }%
17751     \Hy@colorlink\@runcolor
17752     }%
17753     \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17754     \Hy@EndAnnot
17755 }
17756 \def\hyper@linkurl#1#2{%
17757     \leavevmode
17758     \Hy@BeginAnnot{%
17759         \Hy@pstringdef\Hy@pstringURI{#2}%
17760         \@pdfm@mark{%
17761             bann<<%
17762             /Type/Annot%
17763             /Subtype/Link%
17764             \ifHy@pdfa /F 4\fi
17765             \Hy@setpdfborder
17766             \ifx\@urlbordercolor\relax
17767             \else
17768                 /C[\@urlbordercolor]%
17769             \fi
17770             /A<<%
17771             /S/URI%
17772             /URI(\Hy@pstringURI)%
17773             \ifHy@href@ismap
17774                 /IsMap true%
17775             \fi
17776             \Hy@href@nextactionraw
17777             >>%
17778             >>%
17779             }%
17780             \Hy@colorlink\@urlcolor
17781         }%
17782         \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17783         \Hy@EndAnnot
17784     }
17785 \def\Acrobatmenu#1#2{%
17786     \Hy@Acrobatmenu{#1}{#2}{%

```



```

17787 \Hy@BeginAnnot{%
17788 \EdefEscapeName\Hy@temp@menu{#1}%
17789 \@pdfm@mark{%
17790 bann<<%
17791 /Type/Annot%
17792 /Subtype/Link%
17793 \ifHy@pdfa /F 4\fi
17794 \Hy@setpdfborder
17795 \ifx\@menubordercolor\relax
17796 \else
17797 /C[\@menubordercolor]%
17798 \fi
17799 /A<<%
17800 /S/Named%
17801 /N/\Hy@temp@menu
17802 \Hy@href@nextactionraw
17803 >>%
17804 >>%
17805 }%
17806 \Hy@colorlink\@menucolor
17807 }%
17808 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17809 \Hy@endAnnot
17810 }%
17811 }
17812 \def\hyper@natlinkstart#1{%
17813 \Hy@backout{#1}%
17814 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17815 \def\hyper@nat@current{#1}%
17816 }
17817 \def\hyper@natlinkend{%
17818 \if@RTL\endR\fi\hyper@linkend
17819 }
17820 \def\hyper@natlinkbreak#1#2{%
17821 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17822 }%
17823 }
17824 \pdfstringdefDisableCommands{%
17825 \let\LRE\@firstofone
17826 \let\LR\@firstofone
17827 \let\RLE\@firstofone
17828 \let\RL\@firstofone
17829 \def\XeTeX{Xe\TeX}%
17830 \def\XeLaTeX{Xe\LaTeX}%
17831 }
17832 \bidi@patchcmd\@TextField{%
17833 \@pdfm@mark
17834 }{%
17835 \if@RTL
17836 \hskip\Fld@width
17837 \fi
17838 \@pdfm@mark
17839 }{}{}
17840 \bidi@patchcmd\@TextField{%

```



```

17841 \unhbox
17842 }{%
17843 \if@RTL
17844 \hskip-\Fld@width
17845 \fi
17846 \unhbox
17847 }{}{}
17848 \bidi@patchcmd\@@Radio{%
17849 \@pdfm@mark
17850 }{%
17851 \if@RTL
17852 \hskip\Fld@width
17853 \fi
17854 \@pdfm@mark
17855 }{}{}
17856 \bidi@patchcmd\@@Radio{%
17857 \unhcopy
17858 }{%
17859 \if@RTL
17860 \hskip-\Fld@width
17861 \fi
17862 \unhcopy
17863 }{}{}
17864 \bidi@patchcmd\@Submit{%
17865 \@pdfm@mark
17866 }{%
17867 \if@RTL
17868 \null
17869 \hskip\wd\pdfm@box
17870 \fi
17871 \@pdfm@mark
17872 }{}{}
17873 \bidi@patchcmd\@Submit{%
17874 \unhbox
17875 }{%
17876 \if@RTL
17877 \hskip-\wd\pdfm@box
17878 \fi
17879 \unhbox
17880 }{}{}
17881 \bidi@patchcmd\@Reset{%
17882 \@pdfm@mark
17883 }{%
17884 \if@RTL
17885 \null
17886 \hskip\wd\pdfm@box
17887 \fi
17888 \@pdfm@mark
17889 }{}{}
17890 \bidi@patchcmd\@Reset{%
17891 \unhbox
17892 }{%
17893 \if@RTL
17894 \hskip-\wd\pdfm@box

```



```

17895 \fi
17896 \unhbox
17897 }{}{}

```

103 File `imsproc-xetex-bidi.def`

```

17898 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for
17899 \newenvironment{thebibliography}[1]{%
17900 \@bibtitlestyle
17901 \normalfont\bibliofont\labelsep .5em\relax
17902 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17903 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17904 \bidi@thebibliography@font@hook
17905 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17906 \leftmargin\labelwidth \advance\leftmargin\labelsep
17907 \usecounter{enumiv}}%
17908 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17909 \sfcode`\.=\@m
17910 }{}%
17911 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17912 \endlist
17913 }
17914
17915 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17916 \columnseprule\z@ \columnsep 35\p@
17917 \@indextitlestyle
17918 \thispagestyle{plain}%
17919 \let\item\@idxitem
17920 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17921 \if@RTL\raggedleft\else\raggedright\fi
17922 \hyphenpenalty\@M
17923 \footnotesize}
17924 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17925 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17926 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17927
17928 \def\right@footnoterule{%
17929 \kern-.4\p@
17930 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17931 \kern11\p@\kern-\footnotesep}
17932 \def\left@footnoterule{\kern-.4\p@
17933 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17934 \def\@makefnmark{%
17935 \leavevmode
17936 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17937 }
17938
17939 \def\part{\@startsection{part}{0}%
17940 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
17941 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17942 \def\@tocline#1#2#3#4#5#6#7{\relax
17943 \ifnum #1>\c@tocdepth % then omit
17944 \else
17945 \par \addpenalty\@secpenalty\advspace{#2}}%

```



```

17946 \begingroup \hyphenpenalty\@M
17947 \ifempty{#4}{%
17948 \@tempdima\csname r@tocindent\number#1\endcsname\relax
17949 }{%
17950 \@tempdima#4\relax
17951 }%
17952 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi#4\relax
17953 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17954 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17955 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17956 \nobreak
17957 \endgroup
17958 \fi}
17959 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17960 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17961 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17962 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17963 \def\maketitle{\par
17964 \@topnum\z@ % this prevents figures from falling at the top of page 1
17965 \setcopyright
17966 \thispagestyle{firstpage}% this sets first page specifications
17967 \uppercase\shorttitle
17968 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17969 \else \andify\shortauthors
17970 \fi
17971 \@maketitle@hook
17972 \begingroup
17973 \@maketitle
17974 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
17975 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17976 \edef\@tempa{%
17977 \@nx\markboth{\the\toks4
17978 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17979 \@tempa
17980 \endgroup
17981 \c@footnote\z@
17982 \cleartopmattertags
17983 }

```

104 File leqno-xetex-bidi.def

```

17984 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17985 \renewcommand\@eqnnum{\hbext@.01\p@{}}%
17986 \rlap{\hskip -\displaywidth
17987 \{\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\}}

```

105 File letter-xetex-bidi.def

```

17988 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17989 \renewcommand*\@opening[1]{\ifx\@empty\fromaddress
17990 \thispagestyle{firstpage}%
17991 \{\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17992 \else % home address
17993 \thispagestyle{empty}%

```




```

17994     {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r{}}\else\begin{tabular}{l}
17995         \fromaddress \*[2\parskip]%
17996         \@date \end{tabular}\par}%
17997     \fi
17998     \vspace{2\parskip}%
17999     {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
18000     \vspace{2\parskip}%
18001     #1\par\nobreak}
18002 \renewcommand\left@footnoterule{%
18003     \kern-\p@
18004     \hrule \@width .4\columnwidth
18005     \kern .6\p@}
18006 \renewcommand\right@footnoterule{%
18007     \kern-\p@
18008     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18009     \kern .6\p@}

```

106 File lettrine-xetex-bidi.def

```

18010 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
18011 \RemoveFromHook{begindocument}[lettrine]
18012 \AtBeginDocument[lettrine]{%
18013     \if\DefaultOptionsFile\relax
18014     \else
18015         \InputIfFileExists{\DefaultOptionsFile}%
18016         {}%
18017         {\PackageWarning{lettrine.sty}%
18018             {File \DefaultOptionsFile\space not found}%
18019         }%
18020     \fi
18021     \let\ifL@RTL\if@RTL
18022 }

```

107 File lineno-xetex-bidi.def

```

18023 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for]
18024 \bidi@patchcmd{\MakeLineNo}{%
18025     \hb@xt@\z@\{makeLineNumber}%
18026 }{%
18027     \hboxL to \z@\{makeLineNumber}%
18028 }{}{}
18029
18030 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18031     \if@RTL
18032         \hb@xt@\linewidthwidth{\LineNumber\hss}%
18033     \else
18034         \LineNumber
18035     \fi
18036 }{}{}
18037
18038 \bidi@patchcmd{\makeLineNumberRight}{%
18039     \hb@xt@\linewidthwidth{\hss\LineNumber}%
18040 }{%
18041     \if@RTL

```



```

18042     \LineNumber
18043   \else
18044     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18045   \fi
18046 }{}
18047
18048 \bidi@AfterPreamble{%
18049   \if@RTLmain
18050     \rightlinenumber*
18051   \else
18052     \leftlinenumber*
18053   \fi
18054   \@ifpackagewith{lineno}{left}{%
18055     \leftlinenumber*
18056   }{}
18057   \@ifpackagewith{lineno}{right}{%
18058     \rightlinenumber*
18059   }{}
18060   \@ifpackagewith{lineno}{switch}{%
18061     \if@RTLmain
18062       \switchlinenumber*%
18063     \else
18064       \switchlinenumber
18065     \fi
18066   }{}
18067   \@ifpackagewith{lineno}{switch*}{%
18068     \if@RTLmain
18069       \switchlinenumber
18070     \else
18071       \switchlinenumber*%
18072     \fi
18073   }{}
18074 }
18075

```

108 File listings-xetex-bidi.def

```

18076 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18077 \lst@Key{captiondirection}{textdirection}{%
18078   \lstKV@SwitchCases{#1}%
18079   {textdirection:\\%
18080     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18081     LTR:\chardef\bidi@lst@caption@direction\z@%
18082   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18083
18084 \lst@Key{captionscript}{textscript}{%
18085   \lstKV@SwitchCases{#1}%
18086   {textscript:\\%
18087     latin:\chardef\bidi@lst@caption@script\@ne\\%
18088     nonlatin:\chardef\bidi@lst@caption@script\z@%
18089   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18090
18091 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18092   \@ifundefined{bidi@lst@caption@direction}{}{}}

```



```

18093 \ifnum\bidilst@caption@direction=\z{%
18094     #1%
18095 \else%
18096     \ifnum\bidilst@caption@direction=\@ne%
18097         #2%
18098     \fi%
18099 \fi%
18100 }}
18101
18102 \newcommand*{\bidilst@ensure@caption@script}[2]{%
18103 \@ifundefined{bidilst@caption@script}{}{%
18104 \ifnum\bidilst@caption@script=\z{%
18105     #1%
18106 \else%
18107     \ifnum\bidilst@caption@script=\@ne%
18108         #2%
18109     \fi%
18110 \fi%
18111 }}
18112
18113 \long\def\@bidilst@makecaption#1#2{%
18114 \bidilst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18115 \vskip\abovecaptionskip
18116 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18117 \sbox\@tempboxa{%
18118 \bidilst@ensure@caption@direction{\beginL}{\beginR}%
18119 #1: #2%
18120 \bidilst@ensure@caption@direction{\endL}{\endR}%
18121 }%
18122 \ifdim \wd\@tempboxa >\hsize
18123     #1: #2\par
18124 \else
18125     \global \@minipagefalse
18126     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18127 \fi
18128 \vskip\belowcaptionskip}%
18129 \def\lst@makecaption{\@bidilst@makecaption}
18130 \def\lst@maketitle{\@bidilst@makecaption\lst@title@dropdelim}
18131 \bidilst@AtEndPreamble{%
18132 \bidilst@patchcmd{\lst@MakeCaption}{%
18133     \ifx #1%
18134         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18135             \expandafter\refstepcounter
18136         \fi {lstlisting}%
18137 }{%
18138     \ifx #1%
18139         \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18140         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18141             \expandafter\refstepcounter
18142         \fi {lstlisting}%
18143         \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18144 }{}%
18145 \bidilst@patchcmd{\lst@MakeCaption}{%
18146     \addcontentsline{lol}{lstlisting}%

```



```

18147             {\protect\numberline{\thelstlisting}\lst@caption}%
18148 }{%
18149 \begingroup%
18150             \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18151             \addcontentsline{lol}{lstlisting}%
18152             {\protect\numberline{\thelstlisting}\lst@caption}%
18153 \endgroup%
18154 }{}{%
18155 }
18156 \ApplyPatchIfPackageLoaded{caption}{%
18157   \AtBeginCaption{%
18158     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18159     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18160   }
18161   \let\@bidi@lst@makecaption\caption@makecaption%
18162   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18163   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18164 }{%
18165 \AtBeginDocument{%
18166   \@ifundefined{captionlabelfalse}{}{%
18167     \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18168   \@ifundefined{caption@startrue}{}{%
18169     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
18170 }%
18171 }
18172 \AtBeginDocument{
18173   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18174   \lst@ifnumberbychapter
18175     \gdef\thelstlisting%
18176     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18177   \else
18178     \gdef\thelstlisting{\@arabic\c@lstlisting}
18179   \fi}

```

109 File longtable-xetex-bidi.def

```

18180 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18181 \ExplSyntaxOn
18182 \def\LT@array[#1]#2{%
18183   \UseTaggingSocket{tbl/init}
18184   \tl_if_empty:eTF { \LTcapyte }
18185     {
18186       \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18187     }
18188     {
18189       \@kernel@refstepcounter{\LTcapyte}\stepcounter{LT@tables}
18190       \tl_gset:Ne \@currentHref {\LTcapyte.\cs_if_exist_use:c {theH\LTcapyte}}
18191     }
18192   \tbl_gzero_row_count:
18193   \UseTaggingSocket{tbl/longtable/init}
18194   \if l#1%
18195     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18196   \else\if r#1%
18197     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi

```



```

18198 \else\if c#1%
18199   \LTleft\fill \LTright\fill
18200 \fi\fi\fi
18201 \let\LT@mc\multicolumn
18202 \let\LT@@tabarray\@tabarray
18203 \let\LT@@hl\hline
18204 \def\@tabarray{%
18205   \let\hline\LT@@hl
18206   \LT@@tabarray}%
18207 \let\@LT@tabularcr
18208 \let\@tabularnewline\@
18209 \def\newpage{\noalign{\break}}%
18210 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18211 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
18212 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18213 \@tempdima\ht\strutbox
18214 \let\@endpbox\LT@endpbox
18215 \ifx\extrarowheight\@undefined
18216   \let\@acol\@tabacol
18217   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18218   \def\@startpbox{\vtop\LT@startpbox}%
18219   \let\@@startpbox\@startpbox
18220   \let\@@endpbox\@endpbox
18221   \let\LT@LL@FM@cr\@tabularcr
18222 \else
18223   \advance\@tempdima\extrarowheight
18224   \col@sep\@tabcolsep
18225   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18226 \fi
18227 \setbox\@arstrutbox\hbox{\vrule
18228   \@height \arraystretch \@tempdima
18229   \@depth \arraystretch \dp \strutbox
18230   \@width \z@}%
18231 \let\@sharp#\let\protect\relax
18232 \begingroup
18233 \mkpream{#2}%
18234 \tbl_count_table_cols:
18235 \xdef\LT@bchunk{%
18236   \tbl_inbetween_rows:
18237   \global\advance\c@LT@chunks\@ne
18238   \global\LT@rows\z@\setbox\z@\vbox\bgroup
18239   \LT@setprevdepth
18240   \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18241   \tabskip\z@ \@arstrut
18242   \UseTaggingSocket{tbl/row/begin}%
18243   \tbl_init_cell_data_for_row:
18244   \@preamble \tabskip\LTright \cr}%
18245 \endgroup
18246 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18247 \LT@make@row
18248 \m@th\let\par\@empty
18249 \everycr{%
18250   \noalign{%
18251     \tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space

```



```

18252         row:~ \the\g__tbl_row_int \space
18253         column:~ \the\g__tbl_col_int
18254     }
18255     \tbl_if_row_was_started:T
18256     {
18257         \UseTaggingSocket{tbl/row/end}
18258         \tbl_inbetween_rows:
18259     }
18260     \int_compare:nNnT \LT@rows < \LTchunksize
18261     { \tbl_gincr_row_count: } % next is row about to start
18262 }%
18263 }%
18264 \lineskip\z@\baselineskip\z@
18265 \LT@bchunk}
18266 \ExplSyntaxOff
18267 \def\LT@makecaption#1#2#3{%
18268 \LT@mc\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
18269 \reset@font
18270 \sbox\@tempboxa{\ifRTL\beginR\fi#1{#2: }#3\ifRTL\endR\fi}%
18271 \ifdim\wd\@tempboxa>\hsize
18272 #1{#2: }#3%
18273 \else
18274 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18275 \fi
18276 \endgraf\vskip\baselineskip}%
18277 \hss}}
18278 \ApplyPatchCodeToPackage{caption}{%
18279 \renewcommand\LT@makecaption[3]{%
18280 \caption@LT@make{%
18281 \caption@LT@settype\LTcaptiontype
18282 \caption@LT@setup
18283 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18284 \caption@startrue#1\caption@starfalse
18285 \caption@prepare@stepcounter\LTcaptiontype
18286 \caption@begin\LTcaptiontype
18287 \caption@normalsize
18288 \vskip-\ht\strutbox
18289 \caption@ifdefined\FBifcaptop{%
18290 \let\caption@belowskip\@empty}{}%
18291 \caption@make@above
18292 \caption@@make{#2}{#3}\endgraf
18293 \caption@make@below
18294 \caption@end}}%
18295 }
18296 \def\LT@startpbox#1{%
18297 \bgroup
18298 \color@begingroup
18299 \let\@footnotetext\LT@p@ftntext
18300 \let\@LTRfootnotetext\LT@p@LTRftntext
18301 \let\@RTLfootnotetext\LT@p@RTLftntext
18302 \setlength\hsize{#1}%
18303 \@arrayparboxrestore
18304 \everypar{%
18305 \vrule \@height \ht\@arstrutbox \@width \z@

```



```

18306     \everypar{}}%
18307   }
18308 \long\def\LT@p@LTRftntext#1{%
18309   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18310   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18311 \long\def\LT@p@RTLftntext#1{%
18312   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18313   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18314 \def\LT@output{%
18315   \ifnum\outputpenalty <-\@Mi
18316     \ifnum\outputpenalty > -\LT@end@pen
18317       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18318     \else
18319       \setbox\z@\vbox{\unvbox\@cclv}%
18320       \ifdim \ht\LT@lastfoot>\ht\LT@foot
18321         \dimen@\pagegoal
18322         \advance\dimen@\ht\LT@foot
18323         \advance\dimen@-\ht\LT@lastfoot
18324         \ifdim\dimen@<\ht\z@
18325           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18326           \@makecol
18327           \@outputpage
18328           \global\vsiz@\colroom
18329           \setbox\z@\vbox{\box\LT@head}%
18330         \fi
18331       \fi
18332       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18333       \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18334       \UseTaggingSocket{tbl/longtable/foot}
18335       \if@RTLtab\egroup\endR\egroup\fi
18336     \fi
18337   \else
18338     \setbox\@cclv\vbox{%
18339     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18340     \unvbox\@cclv\copy\LT@foot\vss
18341     \if@RTLtab\egroup\endR\egroup\fi
18342   }%
18343   \UseTaggingSocket{tbl/longtable/foot}
18344   \@makecol
18345   \@outputpage
18346   \global\vsiz@\colroom
18347   \copy\LT@head\nobreak
18348 \fi}

```

110 File `lscapexetex-bidi.def`

```

18349 \ProvidesFile{lscapexetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscapex package for
18350 \RequirePackage{graphicx}
18351 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18352   \if@RTL
18353     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18354   \else
18355     \rotatebox{90}{\box\@outputbox}%
18356   \fi

```



```

18357 }{}{}
18358
18359 \g@addto@macro{\landscape}{%
18360   \if@bidi@csdef{bidi@columnwidth}{%
18361     \bidi@columnwidth\columnwidth
18362   }{}%
18363   \let\bidi@left@footnoterule\left@footnoterule
18364   \let\bidi@right@footnoterule\right@footnoterule
18365   \def\left@footnoterule{%
18366     \if@RTL
18367       \bidi@right@footnoterule
18368     \else
18369       \bidi@left@footnoterule
18370     \fi
18371   }%
18372   \def\right@footnoterule{%
18373     \if@RTL
18374       \bidi@left@footnoterule
18375     \else
18376       \bidi@right@footnoterule
18377     \fi
18378   }%
18379 }

```

111 File `mathtools-xetex-bidi.def`

```

18380 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18381 \RequirePackage{graphicx}
18382 \MHInternalSyntaxOn
18383 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18384   \@namedef{MT_tagform_#1:n}##1
18385   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
18386 }
18387 \renewtagform{default}{({})}
18388 \MHInternalSyntaxOff

```

112 File `mdframed-xetex-bidi.def`

```

18389 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18390 \newif\if@bidi@mdf@RTL
18391 \def\mdf@lrbox#1{%
18392   \mdf@patchamsthm%patch amsthm
18393   \if@RTL\@bidi@mdf@RTLtrue\fi%
18394   \RTLfalse%
18395   \setbox#1\vbox\bgroup%
18396   \color@begingroup%
18397   \if@bidi@mdf@RTL\@RTLtrue\fi%
18398   \mdf@horizontalmargin@equation%
18399   \columnwidth=\hsize%
18400   \textwidth=\hsize%
18401   \let\if@nobreak\iffalse%
18402   \let\if@noskipsec\iffalse%
18403   \let\par\@par%
18404   \let\-\@dischyph%

```




```

18405 \let'\@acci\let'\@accii\let=\@acciii%
18406 \parindent\z@ \parskip\z@skip%
18407 \linewidth\hsize%
18408 \@totalleftmargin\z@%
18409 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18410 \parfillskip\@flushglue \lineskip\normallineskip%
18411 \baselineskip\normalbaselineskip%
18412 %% \sloppy%
18413 \let\\@normalcr%
18414 \mdf@par@local%New feature to restore parskip/parindent local in save box
18415 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18416 \@afterindentfalse%
18417 %\@afterheading%
18418 }
18419 \renewrobustcmd\mdfframedtitleenv[1]{%
18420 \mdf@lrbox{\mdf@frametitlebox}%
18421 \mdf@frametitlealignment%
18422 \leavevmode{\color{\mdf@frametitlefontcolor}%
18423 \normalfont\mdf@frametitlefont{#1}
18424 \ifbool{mdf@ignorelastdescenders}%
18425 {%
18426 \par\strut\par
18427 \unskip\unskip\setbox0=\lastbox
18428 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18429 }-}}%
18430 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18431 \endmdf@lrbox\relax%
18432 \mdf@ignorevbadness%
18433 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18434 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18435 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18436 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18437 \mdfframetitleboxtotalheight=\dimexpr
18438 \ht\mdf@frametitlebox
18439 +\dp\mdf@frametitlebox%
18440 +\mdf@frametitleaboveskip@length
18441 +\mdf@frametitlebelowskip@length
18442 \relax%
18443 }
18444
18445 \renewrobustcmd*\mdf@footnoteoutput{%
18446 \ifvoid\@mpfootins\else%
18447 \nobreak%
18448 \vskip\mdf@footnotedistance@length%
18449 \normalcolor%
18450 \bidi@mpfootnoterule%
18451 \unvbox\@mpfootins%
18452 \fi%
18453 }
18454
18455
18456 \renewrobustcmd*\mdf@footnoteinput{%
18457 \def\@mpfn{mpfootnote}%
18458 \def\thempfn{\thempfootnote}%

```



```

18459 \c@mpfootnote\z@%
18460 \let\@footnotetext\@mpfootnotetext%
18461 \let\@LTRfootnotetext\@mpLTRfootnotetext%
18462 \let\@RTLfootnotetext\@mpRTLfootnotetext%
18463 }

```

113 File media9-xetex-bidi.def

```

18464 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18465 \RequirePackage{bidi-media9}

```

114 File bidi-media9.sty

```

18466 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18467 {bidi fixes for media9 package for the XeTeX engine}
18468
18469 \keys_define:nn{media9/mbtn}{
18470   draft .code:n = {},
18471   final .code:n = {},
18472
18473   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18474   tooltip .value_required:n = {true},
18475
18476   overface .code:n = {
18477     \sbox\l_mix_poster_box{
18478       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18479     \mix_pdfxform:n{\l_mix_poster_box}
18480     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18481   },
18482   overface .value_required:n = {true},
18483
18484   downface .code:n = {
18485     \sbox\l_mix_poster_box{
18486       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18487     \mix_pdfxform:n{\l_mix_poster_box}
18488     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18489   },
18490   downface .value_required:n = {true},
18491
18492   3Dgotoview .code:n = {
18493     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18494     \regex_replace_once:nnN{([\^:]+)??.*}{\1}\l_tmpa_tl
18495     \tl_trim_spaces:N\l_tmpa_tl
18496     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18497       \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18498         \tl_set:Nx\l_tmpb_tl{#1} %extract idx
18499         \regex_replace_once:nnN{[\^:]+?}{\1}\l_tmpb_tl
18500         \tl_trim_spaces:N\l_tmpb_tl
18501         \tl_if_blank:VF\l_tmpb_tl{
18502           \regex_match:nVTF{^\[DFLNP\]$}\l_tmpb_tl{
18503             \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl
18504           }{
18505             \regex_match:nVTF{^\[d+\$]\l_tmpb_tl{
18506             \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl}

```



```

18507     }{
18508         \regex_replace_once:nnN{^\(\s*\)}{\l_tmpb_tl
18509         \regex_replace_once:nnN{\s*\)}{\l_tmpb_tl
18510         \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
18511     }
18512 }
18513 }
18514 \mix_pdfobj:nnn{}{dict}{
18515 /S/JavaScript/JS~(
18516     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18517     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18518         annotRM['\l_tmpa_tl']=
18519         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18520     }
18521     annotRM['\l_tmpa_tl'].activated=true;
18522 )
18523 \tl_if_blank:VF\l_tmpb_tl{
18524 /Next~<<
18525 /S/GoTo3DView
18526 /TA~\tl_use:c{ann@\l_tmpa_tl}
18527 /V\l_mix_vidx_tl
18528 >>
18529 }
18530 }
18531 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18532 }
18533 }{
18534 \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18535 \cs_if_exist:NF\g_mix_refundefwarned_tl{
18536     \tl_new:N\g_mix_refundefwarned_tl
18537     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18538 }
18539 }
18540 },
18541 3Dgotoview .value_required:n = {true},
18542
18543 mediacommand .code:n = {
18544     \tl_set:Nx\l_tmpa_tl{#1}
18545     \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
18546     \tl_trim_spaces:N\l_tmpa_tl
18547     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18548         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18549             \tl_set:Nx\l_tmpb_tl{#1}
18550             \regex_replace_once:nnN{[~:]+\~?}{\l_tmpb_tl
18551             \tl_trim_spaces:N\l_tmpb_tl
18552             \regex_replace_all:nnN{^\{\|\}$}{\l_tmpb_tl
18553             \tl_set:Nx\l_mix_cmd_tl{
18554                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18555             \tl_trim_spaces:N\l_mix_cmd_tl
18556             \tl_set:Nx\l_mix_arg_tl{
18557                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18558             \tl_trim_spaces:N\l_mix_arg_tl
18559             \mix_pdfobj:nnn{}{dict}{
18560                 /S/JavaScript/JS~(

```



```

18561         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18562         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18563             annotRM['\l_tmpa_tl']=
18564                 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18565         }
18566         annotRM['\l_tmpa_tl'].activated=true;
18567     )
18568     \tl_if_blank:VF\l_mix_cmd_tl{
18569         /Next~<<
18570         /S/RichMediaExecute
18571         /TA~\tl_use:c{ann@\l_tmpa_tl}
18572         /TI~\tl_use:c{main@\l_tmpa_tl}
18573         /CMD~<<
18574         /C~(\l_mix_cmd_tl)
18575         \tl_if_blank:VF\l_mix_arg_tl{
18576             /A~[\l_mix_arg_tl]
18577         }
18578         >>
18579     >>
18580     }
18581 }
18582 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18583 }
18584 }{
18585     \msg_warning:nx{media9}{undefined~reference}{\l_tmpa_tl}
18586     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18587         \tl_new:N\g_mix_refundefwarned_tl
18588         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18589     }
18590 }
18591 },
18592 mediacommand .value_required:n = {true},
18593
18594 jsaction .code:n = {
18595     \tl_set:Nx\l_tmpa_tl{#1}
18596     \regex_match:nVTF{^[^{}:]+.*$}\l_tmpa_tl{
18597         \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
18598         \tl_trim_spaces:N\l_tmpa_tl
18599     }{\tl_clear:N\l_tmpa_tl}
18600     \tl_set:Nx\l_tmpb_tl{#1}
18601     \tl_if_blank:VF\l_tmpa_tl{
18602         \tl_if_exist:cF{ann@\l_tmpa_tl}{
18603             \msg_warning:nx{media9}{undefined~reference}{\l_tmpa_tl}
18604             \cs_if_exist:NF\g_mix_refundefwarned_tl{
18605                 \tl_new:N\g_mix_refundefwarned_tl
18606                 \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18607             }
18608         }
18609         \regex_replace_once:nnN{[~:]+\.:}{\1}\l_tmpb_tl
18610     }
18611     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18612     \tl_trim_spaces:N\l_tmpb_tl
18613     \tl_if_blank:VF\l_tmpb_tl{
18614         \mix_pdfobj:nnn{}{dict}{

```



```

18615     /S/JavaScript/JS~(
18616         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18617 \bool_lazy_and:nnT{
18618     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18619 }{
18620     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18621 }{
18622     \mix_pdfobj:nnn}{dict}{
18623         /S/JavaScript/JS~(
18624             if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18625             if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18626                 annotRM['\l_tmpa_tl']=
18627                 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18628             }
18629             annotRM['\l_tmpa_tl'].activated=true;
18630         )
18631         \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18632     }
18633 }
18634 \bool_if:nT{
18635     \bool_lazy_and_p:nn{
18636         \tl_if_exist_p:c{ann@\l_tmpa_tl}
18637     }{
18638         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18639     }
18640     || !\tl_if_blank_p:V\l_tmpb_tl
18641 }{
18642     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18643 }
18644 },
18645 jsaction .value_required:n = {true},
18646
18647 unknown .code:n = {
18648     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18649 }
18650 }
18651
18652 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
18653     \mix_uriend:
18654     \group_begin:
18655     \mix_beginLTR:
18656     \mode_leave_vertical:
18657     %empty stream as appearance dummy
18658     \cs_if_exist:NF\g_mix_appearance_tl{
18659         \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18660         \mix_pdfxform:n{\l_mix_poster_box}
18661         \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18662     }
18663     \mix_reset:
18664     \mix_uribegin: %treat URI characters correctly
18665     \keys_set:nn{media9/user}{#1}
18666     \mix_uriend:
18667     \tl_greplac_all:Nnn\g_mix_flashvars_tl{~&}{&}
18668     \tl_greplac_all:Nnn\g_mix_flashvars_tl{&~}{&}

```



```

18669 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~}{=}
18670 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=}{~}
18671 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18672
18673 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18674
18675 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18676 %\hbox_set:Nn\l_mix_poster_box{#2}
18677 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18678 \mix_scale:n{\l_mix_poster_box}
18679 \bool_if:nT{
18680   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18681   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18682 }{
18683   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18684 }
18685 \bool_if:NTF\g_mix_usrdraft_bool{
18686   \tl_if_empty:NF\g_mix_usrlabel_tl{
18687     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18688   }
18689   \tl_if_blank:oTF{#2}{
18690     \mix_uribegin: %treat URI characters correctly
18691     \mix_draftbox:n{\tl_to_str:n{#3}}
18692     \mix_uriend:
18693   }{
18694     \hbox_to_wd:nn{\g_mix_wd_tl}{
18695       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18696       \box_use:N\l_mix_poster_box\hss
18697     }
18698   }
18699 }{
18700   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18701     %attach script that switches off play button overlay upon activation
18702     \mix_pdfobj:nnn{}{stream}{
18703       {}{
18704         var~ocgs=host.getOCGs(host.pageNum);
18705         for(var~i=0;i<ocgs.length;i++){
18706           if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
18707             ocgs[i].state=false;
18708           }
18709         }
18710       }
18711     }
18712     \mix_pdfobj:nnn{}{dict}{
18713       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18714     }
18715     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18716     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18717     %enforce plain playbutton overlay for XeTeX
18718     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18719   }
18720   %embed main asset
18721   \mix_uribegin:
18722   \mix_embedasset:n{#3}

```



```

18723 \bool_if:nTF{
18724   \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18725 }{
18726   \bool_gset_true:N\g_mix_iiid_bool
18727   \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18728 }{
18729   \str_case_e:nnF{\l_mix_base_tl}{
18730     {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18731     {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18732     {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18733     {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18734     {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18735     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18736 }
18737 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18738 \mix_urriend:
18739 %secondary assets (added by addresource)
18740 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18741 \seq_map_inline:Nn\g_mix_script_seq{
18742   \mix_embedasset:n{##1}
18743   \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18744 }
18745 %attach 3D calculation script
18746 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18747   \mix_embedasset:n{3Dmenu.js}
18748   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18749 }
18750 %create 3D views from file (option 3Dviews)
18751 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18752   \tl_set:Nn\l_mix_level_tl{-1}
18753   \int_zero:N\l_mix_viewcnt_int
18754   \int_zero:N\l_mix_lineno_int
18755
18756   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18757   \ior_map_inline:Nn\l_mix_vfile_stream{
18758     \int_incr:N\l_mix_lineno_int
18759     \keys_set:nn{media9/views}{##1} %process input line
18760   }
18761   \ior_close:N\l_mix_vfile_stream
18762 }
18763 \bool_if:nT{ %create default 3D view if required
18764   \g_mix_iiid_bool &&
18765   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18766 }{
18767   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18768   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18769   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18770   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18771   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18772   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18773   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18774
18775   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18776   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp

```



```

18777 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18778 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18779
18780 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18781 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18782 \tl_clear:N\l_mix_naarray_tl
18783
18784 \bool_if:NF\l_mix_ciiw_bool{
18785   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18786   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18787 }
18788
18789 \tl_clear:N\l_mix_naarray_tl
18790 \tl_clear:N\l_mix_saarray_tl
18791 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18792
18793 \mix_view:n{Default}
18794 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18795
18796 }
18797 \mix_pdfobj:nnn{}{dict}{
18798   /Type/RichMediaInstance
18799   /Subtype/\g_mix_mainassetsub_tl
18800   /Asset~\g_mix_mainasset_tl
18801   \bool_if:NF\g_mix_iiid_bool{
18802     /Params~<<
18803     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18804       /Foreground
18805     }{
18806       /Background
18807     }
18808     \tl_if_blank:VF\g_mix_flashvars_tl{
18809       /FlashVars~(\g_mix_flashvars_tl)
18810     }
18811     >>
18812   }
18813 }
18814 \tl_if_empty:NF\g_mix_usrlabel_tl{
18815   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18816 }
18817 \mix_pdfobj:nnn{}{dict}{
18818   /Type/RichMediaConfiguration
18819   /Subtype/\g_mix_mainassetsub_tl
18820   /Instances~[\mix_pdflastobj:]
18821 }
18822 \mix_pdfobj:nnn{}{dict}{
18823   /Type/RichMediaContent
18824   /Assets~<</Names~[\g_mix_assets_tl]>>
18825   /Configurations~[\mix_pdflastobj:]
18826   \bool_if:nT{
18827     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18828   }{
18829     /Views~[\l_mix_iiidviewarray_tl]
18830   }

```




```

18831 }
18832 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18833 \bool_if:nT{
18834   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18835 }{
18836   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18837 }
18838 %determine floating window size
18839 \bool_if:NT\g_mix_opt_windowed_bool{
18840   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18841 }
18842 \mix_pdfobj:nnn{}{dict}{
18843   /Activation~<<
18844   /Condition\g_mix_act_tl
18845   \bool_if:nT{
18846     \g_mix_iiid_bool &&
18847     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18848   }{ %seems to work only with 3D content
18849     /Animation~<<
18850     /Subtype\g_mix_playtpe_tl
18851     /PlayCount~\g_mix_playcnt_tl
18852     /Speed~\g_mix_playspd_tl
18853     >>
18854   }
18855   \bool_if:nT{
18856     \g_mix_iiid_bool && (
18857     \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18858     )
18859   }{/View~\l_mix_dfltview_tl}
18860   /Presentation~<<
18861   /Transparent~\g_mix_transp_tl
18862   \bool_if:NTF\g_mix_opt_windowed_bool{
18863     /Style/Windowed
18864     /Window~<<
18865     /Width~<</Default~\tl_mix_fltd>>
18866     /Height~<</Default~\tl_mix_flht>>
18867     /Position~<<
18868     /HOffset~0/VOffset~0
18869     \str_case_e:nnF{\g_mix_winpos_tl}{
18870       {tl}{/VAlign/Near/HAlign/Near}
18871       {cl}{/VAlign/Center/HAlign/Near}
18872       {bl}{/VAlign/Far/HAlign/Near}
18873       {bc}{/VAlign/Far/HAlign/Center}
18874       {br}{/VAlign/Far/HAlign/Far}
18875       {cr}{/VAlign/Center/HAlign/Far}
18876       {tr}{/VAlign/Near/HAlign/Far}
18877       {tc}{/VAlign/Near/HAlign/Center}
18878     }{/HAlign/Center/VAlign/Center}
18879     >>
18880     >>
18881   }{
18882     /Style/Embedded
18883   }
18884   \bool_if:NTF\g_mix_iiid_bool{

```



```

18885         /Toolbar~\g_mix_tools_tl
18886         /NavigationPane~\g_mix_nav_tl
18887     }{
18888         /PassContextClick~\g_mix_contextclick_tl
18889     }
18890     >>
18891     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18892     >>
18893     /Deactivation~<</Condition\g_mix_deact_tl>>
18894 }
18895 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18896 \tl_if_empty:NF\g_mix_usrlabel_tl{
18897     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18898 }
18899 % #1:width, #2:height, #3:depth, #4:content (key-value)
18900 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18901     /Subtype/RichMedia
18902     /F-4
18903     /BS~<</W-0/S/S>>
18904     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18905     /NM~(\g_mix_label_tl)
18906     /AP~<</N~\g_mix_appearance_tl>>
18907     /RichMediaSettings~\l_mix_settings_tl
18908     /RichMediaContent~\l_mix_content_tl
18909 }
18910 \tl_if_empty:NF\g_mix_usrlabel_tl{
18911     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18912     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18913         \noexpand\the\g@mix@page@int}
18914 }
18915 \mix_pdfobj:nnn{}{dict}{
18916     /S/JavaScript/JS~(
18917     try{
18918         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18919         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18920             annotRM['\g_mix_label_tl']=
18921                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18922         }
18923         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18924             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18925                 var~ocgs=this.getOCGs(this.pageNum);
18926                 for(var~i=0;i<ocgs.length;i++){
18927                     if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18928                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18929                     }
18930                 }
18931             }
18932             if(
18933                 !annotRM['\g_mix_label_tl'].activated&&(
18934                     app.viewerType=='Reader' ||
18935                     app.viewerType=='Exchange' ||
18936                     app.viewerType=='Exchange-Pro'
18937                 )&&app.viewerVersion>=9
18938             ){

```



```

18939         ocbtn\int_use:N\g_mix_rmcnt_int.state=true;
18940     }
18941 }
18942 }catch(e){}
18943     this.dirty=false;
18944 )
18945 }
18946 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18947     /Subtype/Widget
18948     /FT/Btn/Ff~65537/F~2
18949     /BS~<</W~0>>
18950     /T~(fd@g_mix_label_tl)
18951     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18952 }
18953 \mix_appendtofields:n{\mix_pdflastann:}
18954 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18955 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18956     \hbox_to_wd:nn{\g_mix_wd_tl}{
18957         \vrule-width~\c_zero_dim-height~\g_mix_ht_tl-depth~\g_mix_dp_tl\hss
18958     }
18959 }{%insert play button overlay
18960     \mix_insert_btnocg: %create OCG
18961     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@g_mix_usrpbtn_tl @tl}
18962     \group_begin:
18963     \cs_if_exist:NT\textdir{\textdir TLT}
18964     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18965     \box_move_down:nn{\g_mix_dp_tl}{
18966         \hbox_to_wd:nn{\g_mix_wd_tl}{
18967             \vbox_to_ht:nn{\g_mix_tt_tl}{
18968                 \vss
18969                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18970                 \box_use:N\l_mix_pbtn_box
18971                 \ocgbase_oc_emc:
18972             }
18973         }
18974     }
18975     \group_end:
18976 }
18977 \int_gincr:N\g_mix_rmcnt_int
18978 }
18979 \mix_endLTR:
18980 \group_end:
18981 }
18982 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18983 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
18984
18985 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
18986     \mix_uriend:
18987     \group_begin:
18988     \mix_beginLTR:
18989     \mode_leave_vertical:
18990     %reset various variables
18991     \tl_gclear:N\g_mix_overbtn_tl
18992     \tl_gclear:N\g_mix_downbtn_tl

```



```

18993 \tl_gclear:N\g_mix_btnactions_tl
18994 \tl_gclear:N\g_mix_tooltip_tl
18995 %process options
18996 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
18997 \mix_uribegin: %treat URI characters correctly
18998 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
18999 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
19000 \mix_uriend:
19001 %normal button appearance
19002 %\hbox_set:Nn\l_mix_poster_box{#2}
19003 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
19004 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
19005 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
19006 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
19007 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
19008   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
19009     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
19010   \mix_pdfxform:n{\l_mix_poster_box}
19011   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
19012   %insert widget annotation
19013   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
19014     /Subtype/Widget
19015     /T-(mbtn@\int_use:N\g_mix_mbtncnt_int)
19016     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
19017     /FT/Btn/Ff~65536
19018     \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
19019     /AP~<<
19020     /N~\g_mix_normalbtn_tl
19021     \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
19022     \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
19023     >>
19024     /MK~<<
19025     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19026     /I~\g_mix_normalbtn_tl
19027     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
19028     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
19029     >>
19030     /A~<<
19031     /S/JavaScript/JS~(app.focusRect=false;)
19032     %sequence of actions to perform
19033     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
19034     >>
19035   }
19036   \mix_appendtofields:n{\mix_pdflastann:}
19037   \hbox_to_wd:nn{\width}{
19038     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
19039   }
19040   \int_gincr:N\g_mix_mbtncnt_int
19041 }
19042 \mix_endLTR:
19043 \group_end:
19044 }
19045 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19046 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}

```



19047

115 File memoir-xetex-bidi.def

```
19048 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
19049 \renewcommand{\keepthetitle}{%
19050   \@bsmtitleempty
19051   \global\let\thanks\relax
19052   \global\let\LTRthanks\relax
19053   \global\let\RTLthanks\relax
19054   \global\let\and\relax
19055   \global\let\andnext\relax
19056   \global\let\@thanks\@empty
19057   \global\let\@title\@empty
19058   \global\let\@author\@empty
19059   \global\let\@date\@empty}
19060 \renewcommand{\maketitle}{\par
19061   \begingroup
19062     \@bsmarkseries
19063     \def\@makefnmark{\@textsuperscript{%
19064       \normalfont\@bsthanksheadpre \tmark \@bsthanksheadpost}}%
19065     \long\def\@makefntext##1{\makethanksmark ##1}
19066     \if@twocolumn
19067       \ifnum \col@number=\@ne
19068         \@maketitle
19069       \else
19070         \twocolumn[\@maketitle]%
19071       \fi
19072     \else
19073       \ifdim\pagetotal>\z@
19074         \newpage
19075       \fi
19076       \global\@topnum\z@
19077       \@maketitle
19078     \fi
19079     \thispagestyle{title}\@thanks
19080   \endgroup
19081   \@bscontmark % \setcounter{footnote}{0}%
19082 }
19083 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19084 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19085 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19086 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19087 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19088 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19089 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19090 \renewcommand*{\thesubsection}{%
19091   \thesection\@SepMark\@arabic\c@subsection}
19092 \renewcommand*{\thesubsubsection}{%
19093   \thesubsection\@SepMark\@arabic\c@subsubsection}
19094 \renewcommand*{\theparagraph}{%
19095   \thesubsubsection\@SepMark\@arabic\c@paragraph}
19096 \renewcommand*{\thesubparagraph}{%
19097   \theparagraph\@SepMark\@arabic\c@subparagraph}
```



```

19098 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19099 \renewcommand{\theequation}{%
19100 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19101 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19102 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19103 \ifartopt
19104 \chapterstyle{article}
19105 \counterwithout{figure}{chapter}
19106 \counterwithout{table}{chapter}
19107 \counterwithout{footnote}{chapter}
19108 \counterwithout{equation}{chapter}
19109 \renewcommand{\chaptername}{}
19110 \renewcommand{\maketitlehookb}{%
19111 \vskip -1.5\topsep\vskip -1.5\partopsep}
19112 \renewcommand{\maketitlehookc}{%
19113 \vskip -1.5\topsep\vskip -1.5\partopsep}
19114 \fi
19115 \long\def\@makecaption#1#2{\let\@memtempa\relax
19116 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19117 \else \def\@memtempa{\vbox to\topskip{}}\fi
19118 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19119 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19120 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19121 \let\footnote\@contfnote
19122 \let\footnotemark\@contfmark
19123 \ifdim\wd\@tempboxa<\linewidth \centering \fi
19124 \if@contcw
19125 \centering
19126 \parbox{\@contcwidth}{%
19127 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19128 \fi
19129 \ifdim\wd\@tempboxa<\linewidth
19130 \@contpre
19131 {\@contnfont #1\@contdelim}\@memtempa
19132 {\@contcshortstyle \@conttfont #2\@contfinal\par}
19133 \else
19134 \if@conthang
19135 \sbox\@tempboxa{\@contnfont #1\@contdelim}
19136 \@contpre%
19137 {\@contcstyle\hangindent=\wd\@tempboxa
19138 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19139 \else
19140 \if@contindent
19141 \@contpre%
19142 {\@contnfont #1\@contdelim}\@memtempa
19143 {\@contcstyle\hangindent=\@contindw
19144 \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
19145 \else
19146 \@contpre%
19147 {\@contnfont #1\@contdelim}\@memtempa
19148 {\@contcstyle \@conttfont #2\@contfinal\par}
19149 \fi
19150 \fi
19151 \fi

```



```

19152 \@contpost
19153 \if@contcw
19154   \par
19155   } % end of the \parbox
19156 \fi
19157 \vskip\belowcaptionskip}
19158 \ApplyPatchCodeToPackage{caption}{%
19159 \AtBeginPackage{caption}{
19160 \ClassWarningNoLine{memoir}{%
19161 You are using the caption package with the memoir \MessageBreak
19162 class. This may cause unexpected or inconsistent \MessageBreak
19163 results if you use any of memoir's captioning facilities}
19164
19165 \long\def\@makecaption##1##2{%
19166   \vskip\abovecaptionskip
19167   \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19168   \ifdim \wd\@tempboxa >\hsize
19169     \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19170   \else
19171     \global \@minipagefalse
19172     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19173   \fi
19174   \vskip\belowcaptionskip}
19175
19176 \def\caption{%
19177   \ifx\@capytype\@undefined
19178     \@latexerror{\noexpand\caption outside float}\@ehd
19179     \expandafter\@gobble
19180   \else
19181     \refstepcounter\@capytype
19182     \expandafter\@firstofone
19183   \fi
19184   {\@dblarg{\@caption\@capytype}}%
19185 }
19186
19187 \long\def\@caption##1[##2]##3{%
19188   \par
19189   \addcontentsline{\csname ext@##1\endcsname}{##1}%
19190     {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19191   \begingroup
19192     \@parboxrestore
19193     \if@minipage
19194       \setminipage
19195     \fi
19196     \normalsize
19197     \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19198   \endgroup}
19199 }}
19200 \renewenvironment{thebibliography}[1]{%
19201   \bibsection
19202   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19203   \bidi@thebibliography@font@hook%
19204   \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```



116 File midfloat-xetex-bidi.def

```
19205 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19206 \def\RTL@outputdblcol{%
19207   \if@firstcolumn
19208     \global \@firstcolumnfalse
19209     \global\setbox\@leftcolumn\copy\@outputbox
19210     \splitmaxdepth\maxdimen
19211     \vbadness\maxdimen
19212     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19213     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19214     \toks\@expandafter{\topmark}%
19215     \xdef\@firstcoltopmark{\the\toks@}%
19216     \toks\@expandafter{\splitfirstmark}%
19217     \xdef\@firstcolfirstmark{\the\toks@}%
19218     \ifx\@firstcolfirstmark\@empty
19219       \global\let\@setmarks\relax
19220     \else
19221       \gdef\@setmarks{%
19222         \let\firstmark\@firstcolfirstmark
19223         \let\topmark\@firstcoltopmark}%
19224     \fi
19225     \global\c@colht\@colht\global\c@advvipersep\z@
19226     \ifnum\j@o@sk>0
19227       \remove@strip\j@o@sar
19228       \global\@colht\the\j@o@pr
19229       \ifdim\right@cor>\z@
19230         \global\advance\@colht by\right@cor
19231       \fi
19232       \global\advance\@colht by\cor@height
19233       \global\cor@height=Opt
19234     \fi
19235     \global\setbox\@rightcolumn\vbox{%
19236   \else
19237     \ifdim\c@colht>\@colht
19238       \@tempdima\@colht
19239       \ifdim\@colht>\z@
19240         \global\setbox\@rightcolumn\vbox{%
19241           \unvbox\@rightcolumn
19242           \vbox to\@tempdima{%
19243             \vskip\c@advvipersep\unvbox\@outputbox}%
19244           \vskip\stripsep
19245           \vrule height\the\j@o@ht width Opt depth Opt
19246           \vskip\stripsep
19247           }%
19248         \global\c@advvipersep\m@advvipersep
19249       \else
19250         \global\setbox\@rightcolumn\vbox{%
19251           \unvbox\@rightcolumn
19252           \vrule height\the\j@o@ht width Opt depth Opt
19253           \vskip\stripsep
19254           }%
19255       \fi
19256     \ifnum\j@o@sk>0
```




```

19257         \remove@strip\jua@sar
19258         \global\@colht\the\jua@pr
19259         \global\advance\@colht by -\ht\@rightcolumn
19260         \global\advance\@colht by\cor@height
19261         \global\cor@height=0pt
19262     \else
19263         \global\advance\c@colht by-\ht\@rightcolumn
19264         \global\@colht\c@colht
19265     \fi
19266 \else
19267 \global\@firstcolumntrue
19268 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19269     \unvbox\@rightcolumn
19270     \vskip\c@addvipersep
19271     \unvbox\@outputbox
19272     }%
19273 \setbox\@outputbox \vbox {%
19274     \hb@xt@\textwidth {%
19275         \hskip \columnwidth
19276         \hfil
19277         \vrule \@width\columnseprule
19278         \hfil
19279         \hb@xt@\columnwidth {%
19280             \bidi@firstcolumn@status@write%
19281             \box\@leftcolumn \hss}%
19282         \hskip-\textwidth
19283         \hb@xt@\columnwidth {%
19284             \bidi@lastcolumn@status@write%
19285             \box\@outputbox \hss}%
19286         \hskip\columnwidth
19287         \hskip\columnsep}%
19288     }%
19289 \@combinedblfloats
19290 \@setmarks
19291 \@outputpage
19292 \begingroup
19293 \@dblfloatplacement
19294 \@startdblcolumn
19295 \@whilesw@if@colmade \fi
19296     {\@outputpage
19297     \@startdblcolumn}%
19298 \endgroup
19299 \global\jua@sk=0\global\jua@sar={}%
19300 \global\cor@height\z@\global\c@addvipersep\z@
19301 \fi
19302 \fi
19303 }
19304
19305
19306 \def\LTR@outputdblcol{%
19307 \if@firstcolumn
19308     \global \@firstcolumnfalse
19309     \global\setbox\@leftcolumn\copy\@outputbox
19310     \splitmaxdepth\maxdimen

```



```

19311 \vbadness\maxdimen
19312 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19313 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19314 \toks@\expandafter{\topmark}%
19315 \xdef\@firstcoltopmark{\the\toks@}%
19316 \toks@\expandafter{\splitfirstmark}%
19317 \xdef\@firstcolfirstmark{\the\toks@}%
19318 \ifx\@firstcolfirstmark\@empty
19319 \global\let\@setmarks\relax
19320 \else
19321 \gdef\@setmarks{%
19322 \let\firstmark\@firstcolfirstmark
19323 \let\topmark\@firstcoltopmark}%
19324 \fi
19325 \global\c@colht\@colht\global\c@addvipersep\z@
19326 \ifnum\j@sk>0
19327 \remove@strip\j@sar
19328 \global\@colht\the\j@pr
19329 \ifdim\right@cor>\z@
19330 \global\advance\@colht by\right@cor
19331 \fi
19332 \global\advance\@colht by\cor@height
19333 \global\cor@height=0pt
19334 \fi
19335 \global \setbox\@rightcolumn \vbox{%
19336 \else
19337 \ifdim\c@colht>\@colht
19338 \@tempdima\@colht
19339 \ifdim\@colht>\z@
19340 \global\setbox\@rightcolumn \vbox{%
19341 \unvbox\@rightcolumn
19342 \vbox to\@tempdima{%
19343 \vskip\c@addvipersep\unvbox\@outputbox}%
19344 \vskip\stripsep
19345 \vrule height\the\j@ht width 0pt depth 0pt
19346 \vskip\stripsep
19347 }%
19348 \global\c@addvipersep\m@addvipersep
19349 \else
19350 \global\setbox\@rightcolumn \vbox{%
19351 \unvbox\@rightcolumn
19352 \vrule height\the\j@ht width 0pt depth 0pt
19353 \vskip\stripsep
19354 }%
19355 \fi
19356 \ifnum\j@sk>0
19357 \remove@strip\j@sar
19358 \global\@colht\the\j@pr
19359 \global\advance\@colht by-\ht\@rightcolumn
19360 \global\advance\@colht by\cor@height
19361 \global\cor@height=0pt
19362 \else
19363 \global\advance\c@colht by-\ht\@rightcolumn
19364 \global\@colht\c@colht

```



```

19365         \fi
19366     \else
19367         \global\@firstcolumntrue
19368         \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19369             \unvbox\@rightcolumn
19370             \vskip\c@addvipersep
19371             \unvbox\@outputbox
19372             }%
19373         \setbox\@outputbox \vbox {%
19374             \hb@xt@\textwidth {%
19375                 \hb@xt@\columnwidth {%
19376                     \bidi@firstcolumn@status@write%
19377                     \box\@leftcolumn \hss}%
19378                 \hfil
19379                 \vrule \@width\columnseprule
19380                 \hfil
19381                 \hb@xt@\columnwidth {%
19382                     \bidi@lastcolumn@status@write%
19383                     \box\@outputbox \hss}%
19384                 }%
19385             }%
19386         \@combinedblfloats
19387         \@setmarks
19388         \@outputpage
19389         \begingroup
19390             \@dblfloatplacement
19391             \@startdblcolumn
19392             \@whilesw\if@fcolmade \fi
19393             {\@outputpage
19394             \@startdblcolumn}%
19395         \endgroup
19396         \global\juo@sk=0\global\juo@sar={}%
19397         \global\cor@height\z@\global\c@addvipersep\z@
19398         \fi
19399     \fi
19400 }
19401
19402
19403 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19404     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19405         \hsize\textwidth
19406         \@parboxrestore
19407         \col@number \@ne
19408         \vrule height\topskip width0pt depth0pt
19409 }
19410
19411 \def\endstrip{%
19412     \egroup\egroup
19413     \if@firstcolumn
19414         \ifdim\pagetotal>\z@
19415             \vskip\stripsep
19416             \global\ht@strip\pagegoal
19417             \global\advance\ht@strip by-\pagetotal
19418             \global\advance\ht@strip by-\stripsep

```



```

19419             \global\advance\ht@strip by-\ht@viper
19420             \global\advance\ht@strip by-\stripsep
19421             \global\jua@ht=\ht@viper
19422         \else
19423             \global\ht@strip\z@
19424         \fi
19425     \ifdim\ht@strip>\z@
19426         \unvbox\@viper
19427         \vskip\stripsep
19428         \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19429         \global\advance\jua@sk by1
19430     \else
19431         \@latex@error{Strip needs more place!}\@ehc
19432         \if@vihproof
19433             \framebox[\columnwidth]{??? Strip ???}%
19434         \fi
19435     \fi
19436 \else
19437     \@latex@error{Strip is used only on left column!}\@ehc
19438     \if@vihproof
19439         \framebox[\columnwidth]{??? Strip ???}%
19440     \fi
19441 \fi
19442 }

```

117 File minitoc-xetex-bidi.def

```

19443 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19444 \def\undottedtocline#1#2#3#4#5{%
19445     \ifnum #1>\c@tocdepth\relax \else
19446         \vskip \z@ plus.2\p@
19447         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmargin
19448         \parindent #2\relax\@afterindenttrue
19449         \interlinepenalty\@M
19450         \leavevmode
19451         \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
19452         \hskip -\if@RTL\rightskip\else\leftskip\fi
19453         #4\nobreak\hfill \nobreak
19454         \null\par}%
19455     \fi}
19456 \def\Undottedtocline#1#2#3#4#5{%
19457     \ifnum #1>\c@tocdepth\relax \else
19458         \vskip \z@ \@plus.2\p@
19459         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmargin
19460         \parindent #2\relax\@afterindenttrue
19461         \interlinepenalty\@M
19462         \leavevmode
19463         \@tempdima #3\relax
19464         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19465         {\coffefont #4}\nobreak \nobreak\null
19466         \par}%
19467     \fi}
19468 \def\Undottedtoclinep#1#2#3#4#5{%
19469     \ifnum #1>\c@tocdepth\relax \else

```



```

19470 \vskip \z@ \@plus.2\p@
19471 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@ocrma
19472 \parindent #2\relax\@afterindenttrue
19473 \interlinepenalty\@M
19474 \leavevmode
19475 \@tempdima #3\relax
19476 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19477 {#4}\nobreak \hfill \nobreak\null
19478 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19479 \par}%
19480 \fi}

```

118 File multicol-xetex-bidi.def

```

19481 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19482 \def\page@sofar{%
19483   \process@cols\mult@rightbox
19484   {\ifvoid\count@
19485     \setbox\count@\hbox to\hsize}%
19486   \else
19487     \wd\count@\hsize
19488   \fi}%
19489 \count@\col@number \advance\count@\m@ne
19490 \mult@info\z@
19491 {Column spec: \the\full@width\space = indent
19492   + columns + sep =\MessageBreak
19493   \the\multicol@leftmargin\space
19494   + \the\col@number\space
19495   x \the\hsize\space
19496   + \the\count@\space
19497   x \the\columnsep
19498   }%
19499 \ifvmode\else\errmessage{Multicol Error}\fi
19500 \nointerlineskip
19501 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
19502 \moveright\multicol@leftmargin
19503 \hbox to\full@width{%
19504   \bidi@multicol@align@columns
19505   \rlap{\phantom p}}%
19506 }%
19507 \prevdepth\z@
19508 \kern-\dimen\tw@
19509 \ifdim\dimen\tw@ > \mc@gridwarn
19510 \PackageWarning{multicol}%
19511 {Very deep columns!\MessageBreak
19512   Grid alignment might be broken}%
19513 \fi
19514 }
19515 \def\LTR@column@boxes{%
19516   \process@cols\mult@firstbox{%
19517     \ifdim\dp\count@>\dimen\tw@
19518     \global\dimen\tw@\dp\count@ \fi
19519     \mc@col@status@write
19520     \box\count@

```



```

19521     \hss{\columnseprulecolor\vrule
19522         \@width\columnseprule}\hss}%
19523     \ifdim\dp\mult@rightbox>\dimen\tw@
19524         \global\dimen\tw@\dp\mult@rightbox \fi
19525     \mc@lastcol@status@write
19526     \box\mult@rightbox
19527 }
19528
19529 \def\RTL@column@boxes{%
19530     \process@cols\mult@firstbox{%
19531         \hskip\hsize
19532         \hss{\columnseprulecolor\vrule
19533             \@width\columnseprule}\hss
19534     }%
19535     \hskip\hsize
19536     \process@cols\mult@firstbox{%
19537         \ifdim\dp\count@>\dimen\tw@
19538             \global\dimen\tw@\dp\count@ \fi
19539         \hskip-\hsize
19540         \mc@col@status@write
19541         \box\count@
19542         \hskip-\hsize
19543         \hskip-\columnsep
19544     }%
19545     \ifdim\dp\mult@rightbox>\dimen\tw@
19546         \global\dimen\tw@\dp\mult@rightbox \fi
19547     \hskip-\hsize
19548     \mc@lastcol@status@write
19549     \box\mult@rightbox
19550     \hskip-\hsize
19551     \hskip\full@width
19552 }
19553
19554 \newcommand\RTLMulticolcolumns
19555     {\let\ bidi@multicol@align@columns
19556         \RTL@column@boxes}
19557 \newcommand\LTRMulticolcolumns
19558     {\let\ bidi@multicol@align@columns
19559         \LTR@column@boxes}
19560 \newcommand\ bidi@multicol@align@columns
19561     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19562 \ bidi@AtEndPreamble{%
19563     \if@bidi@csdef{footinsv@1}{%
19564         \def\footnoterule{\kern-3\p@
19565             \hrule \@width \textwidth \kern 2.6\p@}%
19566     }{%}
19567 }
19568 \def\multicols#1{\col@number#1\relax
19569     \ifnum\col@number<\tw@
19570         \PackageWarning{multicol}%
19571             {Using ` \number\col@number '
19572              columns doesn't seem a good idea.^~J
19573              I therefore use two columns instead}%
19574         \col@number\tw@ \fi

```



```

19575 \ifnum\col@number>20
19576   \PackageError{multicol}%
19577     {Too many columns}%
19578     {Current implementation doesn't
19579     support more than 20 columns.%
19580     \MessageBreak
19581     I therefore use 20 columns instead}%
19582   \col@number20 \fi
19583   \ifx\@footnotetext\mult@footnotetext
19584   \else
19585     \let\orig@footnotetext\@footnotetext
19586     \let\@footnotetext\mult@footnotetext
19587   \fi
19588   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19589   \else
19590     \let\orig@LTRfootnotetext\@LTRfootnotetext
19591     \let\@LTRfootnotetext\mult@LTRfootnotetext
19592   \fi
19593   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19594   \else
19595     \let\orig@RTLfootnotetext\@RTLfootnotetext
19596     \let\@RTLfootnotetext\mult@RTLfootnotetext
19597   \fi
19598   \@ifnextchar[\mult@cols{\mult@cols[]}]
19599 \long\def\mult@footnotetext#1{\begingroup
19600   \hsize\textwidth
19601   \columnwidth\textwidth
19602   \orig@footnotetext{#1}\endgroup}
19603 \long\def\mult@LTRfootnotetext#1{\begingroup
19604   \hsize\textwidth
19605   \columnwidth\textwidth
19606   \orig@LTRfootnotetext{#1}\endgroup}
19607 \long\def\mult@RTLfootnotetext#1{\begingroup
19608   \hsize\textwidth
19609   \columnwidth\textwidth
19610   \orig@RTLfootnotetext{#1}\endgroup}
19611 \def\right@footnoterule{%
19612   \kern-3\p@
19613   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19614   \kern2.6\p@}
19615 \def\textwidth@footnoterule{\kern-3\p@
19616   \hrule \@width \textwidth \kern 2.6\p@}
19617 \def\bidileave@mult@copyins{%
19618   \advance\dimen@-\skip\@bidi@copyins@
19619   \advance\dimen@-\ht\@bidi@copyins@
19620 }
19621
19622 \bidi@AtEndPreamble{%
19623   \if@bidi@csundef{footinsv@1}{%
19624     \bidi@patchcmd{\multi@column@out}{%
19625       \ifvbox \@kludgeins
19626     }{%
19627       \ifvoid\@bidi@copyins@ \else
19628       \bidileave@mult@copyins

```



```

19629     \fi
19630     \ifvbox \@kludgeins
19631     }{}{}%
19632 }{}%
19633 }
19634
19635

```

119 File multienum-xetex-bidi.def

```

19636 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19637 \renewcommand{\itemx}[1]{\parbox[t]%
19638 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19639 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19640 \renewcommand{\itemxx}[2]{\parbox[t]%
19641 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19642 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19643 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19644 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19645 \renewcommand{\itemxxx}[3]{\parbox[t]%
19646 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19647 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19648 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19649 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19650 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19651 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19652 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19653 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19654 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19655 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19656 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19657 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19658 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19659 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19660 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19661 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
19662 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19663 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19664 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19665 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19666 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19667 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19668 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19669 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
19670 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19671 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
19672 \renewcommand{\itemxox}[2]{\parbox[t]%
19673 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19674 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19675 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19676 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19677 \renewcommand{\itemxox}[2]{\parbox[t]%
19678 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19679 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%

```




```

19680 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19681 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19682 \renewcommand{\itemxox}[3]{\parbox[t]{%
19683 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19684 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19685 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19686 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19687 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19688 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19689 \renewcommand{\itemxox}[3]{\parbox[t]{%
19690 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19691 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19692 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19693 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19694 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19695 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19696 \renewcommand{\itemxox}[3]{\parbox[t]{%
19697 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19698 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19699 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19700 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19701 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19702 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

120 File natbib-xetex-bidi.def

```

19703 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19704 \renewenvironment{thebibliography}[1]{%
19705 \bibsection
19706 \parindent\z@
19707 \bibpreamble
19708 \bibfont
19709 \if@RTL\if@LTR\bibitem@RTLfalse\else\fi\else\if@RTL\bibitem@RTLtrue\else\fi\fi
19710 \bidi@@thebibliography@font@hook%
19711 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19712 \ifNAT@openbib
19713 \renewcommand\newblock{\par}%
19714 \else
19715 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19716 \fi
19717 \sloppy\clubpenalty4000\widowpenalty4000
19718 \sfcode\.\@m
19719 \let\NAT@bibitem@first@sw\@firstoftwo
19720 \let\citeN\cite \let\shortcite\cite
19721 \let\citeasnoun\cite
19722 }{%
19723 \bibitem@fin
19724 \bibpostamble
19725 \def\@noitemerr{%
19726 \PackageWarning{natbib}{Empty `thebibliography' environment}%
19727 }%
19728 \endlist
19729 \bibcleanup
19730 }%

```



121 File newfloat-xetex-bidi.def

```
19731 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
19732 \renewcommand*\newfloat@setwithin[2]{%
19733   \ifcsname c@chapter\endcsname
19734     \@removefromreset{#1}{chapter}%
19735   \fi
19736   \@removefromreset{#1}{section}%
19737   \edef\@tempa{#2}%
19738   \ifx\@tempa\@empty
19739     \def\@tempa{none}%
19740   \fi
19741   \def\@tempb{none}%
19742   \ifx\@tempa\@tempb
19743     \ifcsname c@chapter\endcsname
19744       \@chapterlistsgap@off{#1}%
19745     \fi
19746     \newfloat@@setwithin{#1}{-}{-}%
19747   \else
19748     \def\@tempb{chapter}%
19749     \ifx\@tempa\@tempb
19750       \@addtoreset{#1}{chapter}%
19751       \@chapterlistsgap@on{#1}%
19752       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19753     \else
19754       \def\@tempb{section}%
19755       \ifx\@tempa\@tempb
19756         \@addtoreset{#1}{section}%
19757         \ifcsname c@chapter\endcsname
19758           \@addtoreset{#1}{chapter}%
19759           \@chapterlistsgap@on{#1}%
19760           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19761         \else
19762           \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsectio
19763         \fi
19764       \else
19765         \newfloat@Error{Invalid value `#2' for option `within'}%
19766       \fi
19767     \fi
19768   \fi}
```

122 File nicematrix-xetex-bidi.def

```
19769 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
19770 \ExplSyntaxOn
19771 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19772   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19773   \@tabarray
19774 }{}{}
19775 \ExplSyntaxOff
19776
```

123 File nththeorem-xetex-bidi.def



```

19777 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
19778 \gdef\@thm#1#2#3{%
19779   \if@thmmarks
19780     \stepcounter{end\InTheoType ctr}%
19781   \fi
19782   \renewcommand{\InTheoType}{#1}%
19783   \if@thmmarks
19784     \stepcounter{curr#1ctr}%
19785     \setcounter{end#1ctr}{0}%
19786   \fi
19787   \refstepcounter{#2}%
19788   \theorem@prework
19789   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19790   \ifvmode \advance\thm@topsepadd\partopsep\fi
19791   \trivlist
19792   \@topsep \theorempreskipamount
19793   \@topsepadd \thm@topsepadd % used by \@endparenv
19794   \advance\linewidth -\theorem@indent
19795   \advance\@totalleftmargin \theorem@indent
19796   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19797   \@ifnextchar [\@ythm{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

124 File ntheorem-hyper-xetex-bidi.def

```

19798 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h]
19799 \gdef\@thm#1#2#3{%
19800   \if@thmmarks
19801     \stepcounter{end\InTheoType ctr}%
19802   \fi
19803   \renewcommand{\InTheoType}{#1}%
19804   \if@thmmarks
19805     \stepcounter{curr#1ctr}%
19806     \setcounter{end#1ctr}{0}%
19807   \fi
19808   \refstepcounter{#2}%
19809   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19810   \ifvmode \advance\thm@topsepadd\partopsep\fi
19811   \trivlist
19812   \@topsep \theorempreskipamount
19813   \@topsepadd \thm@topsepadd % used by \@endparenv
19814   \advance\linewidth -\theorem@indent
19815   \advance\@totalleftmargin \theorem@indent
19816   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19817   \@ifnextchar [\@ythm{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

125 File overpic-xetex-bidi.def

```

19818 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package]
19819 \renewenvironment{overpic}[2] []{%
19820   \sbox{\z@}{\includegraphics[#1]{#2}}%
19821   \settodepth{\@tempcnta}{\usebox{\z@}}%
19822   \settoheight{\@tempcntb}{\usebox{\z@}}%
19823   \advance\@tempcntb\@tempcnta%
19824   \settowidth{\@tempcnta}{\usebox{\z@}}%

```



```

19825 \setlength{\@tempdima}{\unitlength}%
19826 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19827 %
19828 \OVP@calc%
19829 %
19830 \begin{picture}(\@tempcnta,\@tempcntb)%
19831 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19832 \ifGin@grid%
19833 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19834 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19835 \fi\fi%
19836 % reset the graphics parameter
19837 \let\Gin@outer@scalex\relax
19838 \let\Gin@outer@scaley\relax
19839 \let\Gin@angle\relax
19840 \let\Gin@ewidth\Gin@exclamation
19841 \let\Gin@eheight\Gin@ewidth
19842 \def\Gin@scalex{1}
19843 \let\Gin@scaley\Gin@exclamation
19844 }{%
19845 \if@RTL\ifGin@grid%
19846 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19847 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19848 \fi%
19849 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19850 \end{picture}%
19851 }%

```

126 File pdfbase-xetex-bidi.def

```

19852 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package]
19853 \ExplSyntaxOn
19854 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19855 \cs_set_nopar:Npn\@outputpage{
19856 \int_gincr:N\g_pbs_page_int
19857 \box_if_vertical:cTF{\@outputbox}{
19858 \bool_set_true:N\l_pbs_is_vertical_bool
19859 }{
19860 \bool_set_false:N\l_pbs_is_vertical_bool
19861 }
19862 \hbox_set:Nn\@outputbox{
19863 %begin of page
19864 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19865 \box_use_drop:N\@outputbox
19866 %end of page
19867 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19868 }
19869 \bool_if:NT\l_pbs_is_vertical_bool{
19870 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19871 }
19872 \pbs_outputpage_orig:
19873 }
19874 \ExplSyntaxOff

```



127 File pdfscape-xetex-bidi.def

```
19875 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
19876 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19877   \if@RTL
19878     \PLS@Rotate{-90}%
19879   \else
19880     \PLS@Rotate{90}%
19881   \fi
19882 }{}{}
```

128 File pdfpages-xetex-bidi.def

```
19883 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
19884 \renewcommand*{\includepdf}[2] [] {%
19885   \begingroup
19886   \@RTLfalse
19887   \let\AM@threadname\relax
19888   \AM@split@options{pdfpages}{#1}%
19889   \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
19890   \expandafter\setkeys\AM@temp
19891   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
19892     \let\AM@currentdocname\relax
19893     \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
19894     \def\AM@pagecount{0}%
19895   }{%
19896     \AM@findfile{#2}%
19897     \if\AM@threadname\relax
19898       \def\AM@threadname{\AM@currentdocname}%
19899     \fi
19900   }%
19901   \ifAM@survey
19902     \def\AM@pagestemp{}%
19903     \@tempcnta=0
19904     \def\foo{%
19905       \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
19906         {\let\foo\relax}
19907       {\expandafter\ifx\expandafter\\AM@pagestemp\\
19908         \edef\AM@pagestemp{%
19909           \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
19910         \else
19911           \edef\AM@pagestemp{\AM@pagestemp,%
19912             \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
19913         \fi
19914         \advance\@tempcnta 1\relax
19915       }%
19916     \foo
19917   }%
19918   \foo
19919   \expandafter\ifx\expandafter\\AM@pagestemp\\
19920     \def\AM@pagestemp{1}%
19921   \fi
19922 \fi
19923 \ifAM@output
```



```

19924 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
19925 \AM@output{#1}%
19926 \fi
19927 \AM@CheckAtEnd
19928 \endgroup
19929 \AM@ClearShipoutPicture
19930 }

```

129 File pgfcorescopes.code-xetex-bidi.def

```

19931 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19932 \def\pgfpicture{%
19933 \begingroup%
19934 \ifmmode\else\@RTLfalse\beginL\fi%
19935 \pgfpicturetrue%
19936 \global\advance\pgf@picture@serial@count by1\relax%
19937 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19938 \let\pgf@nodecallback=\pgfutil@gobble%
19939 \pgf@picmaxx=-16000pt\relax%
19940 \pgf@picminx=16000pt\relax%
19941 \pgf@picmaxy=-16000pt\relax%
19942 \pgf@picminy=16000pt\relax%
19943 \pgf@relevantforpicturesizetrue%
19944 \pgf@resetpathsizes%
19945 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19946 \def\endpgfpicture{%
19947 \ifpgfrememberpicturerepositiononpage%
19948 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19949 \fi%
19950 % ok, now let's position the box
19951 \ifdim\pgf@picmaxx=-16000pt\relax%
19952 % empty picture. make size 0.
19953 \global\pgf@picmaxx=0pt\relax%
19954 \global\pgf@picminx=0pt\relax%
19955 \global\pgf@picmaxy=0pt\relax%
19956 \global\pgf@picminy=0pt\relax%
19957 \fi%
19958 % Shift baseline outside:
19959 \pgf@relevantforpicturesizefalse%
19960 \pgf@process{\pgf@baseline}%
19961 \xdef\pgf@shift@baseline{\the\pgf@y}%
19962 %
19963 \pgf@process{\pgf@trimleft}%
19964 \global\advance\pgf@x by-\pgf@picminx
19965 % prepare \hskip\pgf@trimleft@final.
19966 % note that \pgf@trimleft@final is also queried
19967 % by the pgf image externalization.
19968 \xdef\pgf@trimleft@final{-\the\pgf@x}%
19969 %
19970 \pgf@process{\pgf@trimright}%
19971 \global\advance\pgf@x by-\pgf@picmaxx
19972 % prepare \hskip\pgf@trimright@final.
19973 % note that \pgf@trimright@final is also queried
19974 % by the pgf image externalization.

```



```

19975         \xdef\pgf@trimright@final{\the\pgf@x}%
19976         %
19977         \pgf@remember@layerlist@globally
19978         \endgroup%
19979         \hss%
19980         \egroup%
19981         \pgf@restore@layerlist@from@global
19982         \pgf@insertlayers%
19983         \endgroup%
19984         \pgfsys@discardpath%
19985         \endgroup%
19986         \pgfsys@endscope%
19987         \pgfsys@endpicture%
19988         \endgroup%
19989         \hss
19990     \egroup%
19991     \pgfsys@typesetpicturebox\pgfpic%
19992     \ifmode\else\endL\fi%
19993     \endgroup%
19994 }

```

130 File `pgfsys-xetex-bidi.def`

```

19995 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19996 \def\pgfsys@shadingoutsidepgfpicture#1{%
19997     \beginL#1\endL%
19998 }
19999
20000

```

131 File `picinpar-xetex-bidi.def`

```

20001 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
20002 \long\def\@makewincaption#1#2{%
20003     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
20004     \ifdim\wd\@tempboxa>\picwd
20005         {\footnotesize{\bf #1:\enspace}{#2\par}}
20006     \else
20007         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
20008     \fi}
20009 \def\endwindow{%
20010     \global\tcd=\tcdsav
20011     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
20012     \vbadness=10000
20013     \splittopskip=0pt
20014 %
20015 % Typeset the lines above the window
20016 %
20017 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
20018 \tcn=\tcd
20019 \loop\advance\tcn -1
20020 \setbox\fslice=\vsplit\holder to\baselineskip
20021 \prune\fslice\linewidth
20022 \topheight=0pt

```



```

20023 \ifnum\dp\fslice>\dp\wstrutbox
20024     \advance\topheight-\dp\fslice
20025     \advance\topheight\dp\wstrutbox
20026     \advance\topheight\ilg\fi
20027 \hbox to\linewidth{\box\fslice}
20028 \vskip-\topheight
20029 \ifdim\ht\holder>0pt\repeat
20030 \fi
20031 %
20032 % Now we build the boxes beside the window
20033 %
20034 \global\topheight=\tcl\baselineskip
20035 \ifnum\cumpartcl>0\global\tcl=\cumtcl
20036     \global\topheight=\vpic
20037 \fi
20038 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
20039 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
20040 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
20041 \tcn=\tcl \na=0 \nb=0
20042 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20043 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
20044 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20045 \ifnum\na=0\ifnum\nb=0
20046     \setbox\waslice=\vbox to\vpic{\vss}
20047     \setbox\wbslice=\vbox to\vpic{\vss}
20048     \bl=1\br=1
20049     \vskip\ilg
20050 \fi\fi
20051 %
20052 % both sides
20053 %
20054 \ifnum\na>0 \ifnum\nb>0
20055 \loop\advance\nb -1
20056 \advance\na -1
20057 \if@RTL%
20058 \setbox\bslice=\vsplit\holder to\baselineskip
20059 \prune\bslice\rtside
20060 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20061 to\rtside{\box\bslice\hfil}}
20062 \setbox\aslice=\vsplit\holder to\baselineskip
20063 \prune\aslice\lftside
20064 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20065 to\lftside{\box\aslice\hfil}}
20066 \else%
20067 \setbox\aslice=\vsplit\holder to\baselineskip
20068 \prune\aslice\lftside
20069 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20070 to\lftside{\box\aslice\hfil}}
20071 \setbox\bslice=\vsplit\holder to\baselineskip
20072 \prune\bslice\rtside
20073 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20074 to\rtside{\box\bslice\hfil}}
20075 \fi%
20076 \ifnum\nb>0\repeat

```




```

20077 \fi\fi
20078 %
20079 % only text on the left side
20080 %
20081 \ifnum\na>0
20082   \loop\advance\na -1
20083   \setbox\aslice=\vsplit\holder to\baselineskip
20084   \prune\aslice\lftside
20085   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20086   to\lftside{\box\aslice\hfil}}
20087   \ifdim\ht\holder>0pt\repeat
20088 \fi
20089 %
20090 % only text on the right side
20091 %
20092 \ifnum\nb>0
20093   \loop\advance\nb -1
20094   \setbox\bslice=\vsplit\holder to\baselineskip
20095   \prune\bslice\rtside
20096   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20097   to\rtside{\box\bslice\hfil}}
20098   \ifdim\ht\holder>0pt\repeat
20099 \fi
20100 %
20101 % fixing the dimensions of the window part
20102 %
20103 \ifnum\bl=0\topheight=\ht\wbslice
20104 \else\ifnum\br=0\topheight=\ht\waslice
20105   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20106   \else\topheight=\ht\wbslice\fi\fi\fi
20107 %
20108 % ship out the window material to the main vertical list
20109 %
20110 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20111 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20112 \fi\fi\fi
20113 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20114 \ifnum\bl>0\box\waslice\hfill\fi%
20115 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20116 \vfill\unvbox\picbox%
20117 \ifnum\picwd>0\vfill\fi%
20118 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20119 \unvbox>windowbox%
20120 \loop
20121 \setbox\bslice=\vsplit\rawtext to\baselineskip
20122 \prune\bslice\linewidth
20123 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20124 \unvbox\wbslice
20125 \ifdim\ht\rawtext>0pt
20126 \repeat
20127 }% FINITO

```

132 File plain-xetex-bidi.def



```

20128 \def\TeXeTOn{\TeXeTstate=1 }
20129 \def\TeXeTOff{\TeXeTstate=0 }
20130 \TeXeTOn
20131 \def\usebox#1{\leavevmode\copy #1\relax}
20132 \def\ bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
20133 \let\ bidi@o@everypar=\everypar
20134 \newtoks\ bidi@n@everypar
20135 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
20136 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
20137 \let\ everypar=\ bidi@n@everypar
20138 \def\ moreLRE{\bracetext \aftergroup\endL \beginL \@RTLfalse}
20139 \def\ moreRLE{\bracetext \aftergroup\endR \beginR \@RTLtrue}
20140 \protected\def\ hboxR{\hbox\bgroup
20141 \everyhbox{%
20142 \aftergroup\egroup
20143 \everyhbox{}}%
20144 \beginR
20145 \@hboxRconstructtrue
20146 \bgroup
20147 \aftergroup\endR
20148 \aftergroup\egroup
20149 }\hbox}
20150 \protected\def\ hboxL{\hbox\bgroup
20151 \everyhbox{%
20152 \aftergroup\egroup
20153 \everyhbox{}}%
20154 \beginL
20155 \@hboxRconstructfalse
20156 \bgroup
20157 \aftergroup\endL
20158 \aftergroup\egroup
20159 }\hbox}
20160 \protected\def\ vboxR{\vbox\bgroup
20161 \everyvbox{%
20162 \aftergroup\egroup
20163 \everyvbox{}}%
20164 \@RTLtrue
20165 \bgroup
20166 \aftergroup\egroup
20167 }\vbox}
20168 \protected\def\ vboxL{\vbox\bgroup
20169 \everyvbox{%
20170 \aftergroup\egroup
20171 \everyvbox{}}%
20172 \@RTLfalse
20173 \bgroup
20174 \aftergroup\egroup
20175 }\vbox}
20176 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20177 \def\endLTR{\par}
20178 \def\RTL{\par\@RTLtrue\@RTL@footnotettrue\hsize\linewidth\parshape\z@}
20179 \def\endRTL{\par}
20180 \def\setRTL{\@RTLtrue\@RTL@footnotettrue}
20181 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}

```



```

20182 \let\unsetRTL=\setLTR
20183 \let\unsetLTR=\setRTL
20184 \let\LR=\LRE
20185 \let\RL=\RLE
20186 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20187 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20188 \let\@ensure@RL=\@ensure@RTL
20189 \let\@ensure@LR=\@ensure@LTR
20190 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20191 \let\@ensure@maindir=\@ensure@dir
20192 \def\@@RTL{RTL}
20193 \def\@@LTR{LTR}
20194 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
20195 \def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi}
20196 \let\@TeX\TeX
20197 \def\TeX{\@ensure@LTR{\@TeX}}
20198 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20199 \dimen@=\dp@cclv \unvbox@cclv % open up \box255
20200 \ifvoid\footins\else % footnote info is present
20201 \vskip\skip\footins
20202 \footnoterule
20203 \unvbox\footins\fi
20204 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
20205 \ifvoid\@bidi@copyins@
20206 \else
20207 \vskip\skip\@bidi@copyins@
20208 \unvbox\@bidi@copyins@
20209 \fi
20210 }
20211 \long\def\bidi@reflect@box#1{%
20212 \leavevmode
20213 \setbox\z@\hbox{#1}}%
20214 \setbox\@tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:restore}}%
20215 \hbox to \wd\z@{\kern\wd\z@\box\@tw@\hss}}%
20216 }
20217 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
20218 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20219 \let\setRL=\setRTL
20220 \let\setLR=\setLTR
20221 \let\unsetRL=\setLTR
20222 \let\bidi@saved@eqno=\eqno
20223 \let\bidi@saved@leqno=\leqno
20224 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
20225 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
20226 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20227 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20228 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

133 File pstricks-xetex-bidi.def

```

20229 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20230 \bidi@patchcmd\pspicture\beginRgroup{%
20231 \beginRgroup
20232 \ifmmode

```



```

20233     \else
20234         \@RTLfalse
20235         \beginL
20236     \fi
20237 }{}{\bidi@warningnoline{Oops! patching `string\pspicture' failed}}
20238
20239 \bidi@patchcmd\endpspicture{%
20240     \endgroup
20241     \psset[pstricks]{shift=0}% reset value
20242 }{%
20243     \ifmmode
20244     \else
20245         \endL
20246     \fi
20247     \endgroup
20248     \psset[pstricks]{shift=0}% reset value
20249 }{}{\bidi@warningnoline{Oops! patching `string\endpspicture' failed}}
20250
20251 \bidi@patchcmd\@@scalebox{%
20252     \special{x: bscale \pst@tempc \pst@tempd}%
20253     \hbox to \z@\box\pst@hbox\hss}%
20254     \special{x: escale}%
20255 }{%
20256     \if@RTL
20257         \special{x: escale}%
20258     \else
20259         \special{x: bscale \pst@tempc \pst@tempd}%
20260     \fi
20261     \hbox to \z@\box\pst@hbox\hss}%
20262     \if@RTL
20263         \special{x: bscale \pst@tempc \pst@tempd}%
20264     \else
20265         \special{x: escale}%
20266     \fi
20267 }{}{\bidi@warningnoline{Oops! patching `string\@@scalebox' failed}}
20268 \let\ps@@scalebox\@@scalebox
20269

```

134 File quotchap-xetex-bidi.def

```

20270 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20271 \renewcommand{\qauthor}[1]{%
20272     \par\smallskip
20273     {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{\par}\bigskip}
20274 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20275     {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20276         {\chapnumfont
20277             \ifnum \c@secnumdepth >\m@ne%
20278                 \if@mainmatter\thechapter%
20279                 \fi\fi
20280                 \par\nobreak}%
20281             {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi}
20282             \nobreak\chapterheadendvskip}}
20283 \renewcommand*{\@iprintcites}{%

```



```

20284 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
20285 \global\let\@printcites\relax}

```

135 File ragged2e-xetex-bidi.def

```

20286 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20287 \renewcommand{\Centering}{%
20288   \ifx\\ \@raggedtwo@savedcr
20289     \let\\ \@centercr
20290   \fi
20291   \let\@gnewline\@raggedtwo@gnewline
20292   \ifRTL\righskip\else\leftskip\fi\CenteringLeftskip
20293   \@rightskip\CenteringRightskip
20294   \ifRTL\leftskip\else\righskip\fi\@rightskip
20295   \parfillskip\CenteringParfillskip
20296   \parindent\CenteringParindent
20297   \@raggedtwo@spaceskiptrue
20298   \@raggedtwo@everyselectfont
20299 }
20300 \renewcommand{\RaggedLeft}{%
20301   \ifx\\ \@raggedtwo@savedcr
20302     \let\\ \@centercr
20303   \fi
20304   \let\@gnewline\@raggedtwo@gnewline
20305   \ifRTL\righskip\else\leftskip\fi\RaggedLeftLeftskip
20306   \@rightskip\RaggedLeftRightskip
20307   \ifRTL\leftskip\else\righskip\fi\@rightskip
20308   \parfillskip\RaggedLeftParfillskip
20309   \parindent\RaggedLeftParindent
20310   \@raggedtwo@spaceskiptrue
20311   \@raggedtwo@everyselectfont
20312 }
20313 \renewcommand{\RaggedRight}{%
20314   \ifx\\ \@raggedtwo@savedcr
20315     \let\\ \@centercr
20316   \fi
20317   \let\@gnewline\@raggedtwo@gnewline
20318   \ifRTL\righskip\else\leftskip\fi\RaggedRightLeftskip
20319   \@rightskip\RaggedRightRightskip
20320   \ifRTL\leftskip\else\righskip\fi\@rightskip
20321   \parfillskip\RaggedRightParfillskip
20322   \parindent\RaggedRightParindent
20323   \@raggedtwo@spaceskiptrue
20324   \@raggedtwo@everyselectfont
20325 }
20326 \renewcommand{\justifying}{%
20327   \let\\ \@raggedtwo@savedcr
20328   \let\@gnewline\@raggedtwo@saved@gnewline
20329   \ifRTL\righskip\else\leftskip\fi\z@
20330   \@rightskip\z@
20331   \ifRTL\leftskip\else\righskip\fi\@rightskip
20332   \parfillskip\JustifyingParfillskip
20333   \parindent\JustifyingParindent
20334   \@raggedtwo@spaceskipfalse

```



```

20335 \@raggedtwoe@everyselectfont
20336 }
20337 \def \@raggedtwoe@raggedrightboxes@opt{%
20338 \renewcommand{\@arrayparboxrestore}{%
20339 \let\if@nobreak\iffalse
20340 \let\if@noskipsec\iffalse
20341 \let\par\@par
20342 \let\-\@dischyph
20343 \let'\@acci\let\` \@accii\let\=\@acciii
20344 \parskip\z@skip
20345 \everypar{}%
20346 \linewidth\hsize
20347 \@totalleftmargin\z@
20348 \if@RTL
20349 \RaggedLeft
20350 \else
20351 \RaggedRight
20352 \fi
20353 \lineskip\normallineskip
20354 \baselineskip\normalbaselineskip
20355 \sloppy}%
20356 \let \@raggedtwoe@raggedrightboxes@opt\relax
20357 }
20358 \def \@raggedtwoe@document@opt{%
20359 \AtBeginDocument{\@raggedtwoe@abdhook}%
20360 \@raggedtwoe@raggedrightboxes@opt
20361 \@raggedtwoe@footmisctrue
20362 \let \@raggedtwoe@document@opt\relax
20363 }
20364 \def \@raggedtwoe@abdhook{%
20365 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20366 right to left documents and '\string\RaggedRight' for left
20367 to right documents}%
20368 \if@RTL
20369 \RaggedLeft
20370 \else
20371 \RaggedRight
20372 \fi
20373 \@ifundefined{@tocrmarg}{\edef@tocrmarg{\@tocrmarg plus 2em}}%
20374 \let \@raggedtwoe@abdhook\relax
20375 }
20376 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20377 \@raggedtwoe@raggedrightboxes@opt
20378 }{}
20379 \@ifpackagewith{ragged2e}{document}{%
20380 \@raggedtwoe@document@opt
20381 }{}
20382 \let\origin@RaggedLeft=\RaggedLeft
20383 \let\origin@RaggedRight=\RaggedRight
20384 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20385 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

136 File `rapport1-xetex-bidi.def`



```

20386 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20387 \renewenvironment{theindex}{%
20388   \if@twocolumn
20389     \@restonecolfalse
20390   \else
20391     \@restonecoltrue
20392   \fi
20393   \columnseprule \z@
20394   \columnsep 35\p@
20395   \twocolumn[ \@makeschapterhead{\indexname}]%
20396   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20397   \thispagestyle{plain}\parindent\z@
20398   \parskip\z@ \@plus .3\p@\relax
20399   \let\item\@idxitem
20400 }{%
20401   \if@restonecol\onecolumn\else\clearpage\fi}
20402 \renewcommand* \head@style{%
20403   \interlinepenalty \@M
20404   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20405   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel relax}
20406 \if@titlepage
20407   \renewenvironment{abstract}{%
20408     \titlepage
20409     \null\vfil
20410     \section*{\SectFont\abstractname}%
20411     \noindent\ignorespaces}
20412   {\par\vfil\null\endtitlepage}
20413 \else
20414   \renewenvironment{abstract}{%
20415     \if@twocolumn
20416       \section*{\abstractname}%
20417     \else
20418       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20419       \section*{\small\SectFont\abstractname}%
20420       \noindent\ignorespaces
20421     \fi}
20422   {\if@twocolumn\else\par\egroup\fi}
20423 \fi
20424 \renewcommand* \@regtocline[3]{%
20425   \ifnum #1>\c@tocdepth
20426   \else
20427     \vskip\z@\@plus.2\p@
20428     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20429     \if@RTL\rightskip\else\leftskip\fi\unitindent
20430     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20431     \parfillskip\z@
20432     \@tempdima\unitindent
20433     \parindent\z@
20434     \leavevmode
20435     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi relax#2\nobreak
20436     \hskip 1em \nobreak{\slshape #3}\par
20437   }%
20438   \fi}
20439 \if@oldtoc

```



```

20440 \renewcommand*\l@part[2]{%
20441   \ifnum \c@tocdepth >-2\relax
20442     \addpenalty{-\@highpenalty}%
20443     \addvspace{2.25em \@plus\p@}%
20444     \begingroup
20445       \setlength\@tempdima{3em}%
20446       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20447       \parfillskip -\@pnumwidth
20448       {\leavevmode
20449         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20450         \nobreak
20451         \global\@nobreaktrue
20452         \everypar{\global\@nobreakfalse\everypar{}}%
20453     \endgroup
20454   \fi}
20455 \else
20456   \renewcommand*\l@part{%
20457     \ifnum \c@tocdepth >-2\relax
20458       \addpenalty{-\@highpenalty}%
20459       \addvspace{2.25em \@plus\p@}%
20460       \@regtocline{0}%
20461     \fi}
20462 \fi
20463 \if@oldtoc
20464 \renewcommand*\l@chapter[2]{%
20465   \addpenalty{-\@highpenalty}%
20466   \vskip 1.0em \@plus\p@
20467   \setlength\@tempdima{1.5em}%
20468   \begingroup
20469     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20470     \parfillskip -\@pnumwidth
20471     \leavevmode \bfseries
20472     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20473     \hskip -\if@RTL\rightskip\else\leftskip\fi
20474     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20475     \penalty\@highpenalty
20476   \endgroup}
20477 \else
20478   \renewcommand*\l@chapter{\@regtocline{0}}
20479 \fi
20480 \renewcommand*\left@footnoterule{%
20481   \kern-3\p@
20482   \kern.5\baselineskip
20483   \hrule\@width\unitindent
20484   \kern.4\baselineskip
20485 }
20486 \renewcommand*\right@footnoterule{%
20487   \kern-3\p@
20488   \kern.5\baselineskip
20489   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20490   \kern.4\baselineskip}
20491 \renewenvironment{thebibliography}[1]
20492   {\chapter*{\bibname}%
20493     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%

```




```

20494 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20495 \bidi@thebibliography@font@hook%
20496 \list{\@biblabel{\@arabic\c@enumiv}}%
20497     {\settooth\labelwidth{\@biblabel{#1}}%
20498     \leftmargin\labelwidth
20499     \advance\leftmargin\labelsep
20500     \@openbib@code
20501     \usecounter{enumiv}}%
20502     \let\p@enumiv\@empty
20503     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20504 \sloppy\clubpenalty4000\widowpenalty4000%
20505 \sfcode`.\@m}
20506 {\def\@noitemerr
20507   {\@latex@warning{Empty `thebibliography' environment}}}%
20508 \endlist}
20509 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20510 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20511 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20512 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20513 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20514 \renewcommand*\theequation{%
20515   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20516 \renewcommand*\thefigure{%
20517   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20518 \renewcommand*\thetable{%
20519   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20520 \if@titlepage
20521 \renewcommand*\TitleFont{\rmfamily}
20522 \renewcommand*\maketitle{%
20523   \begin{titlepage}%
20524     \let\footnotesize\small
20525     \let\right@footnoterule\relax
20526     \let\left@footnoterule\relax
20527     \let\textwidth@footnoterule\relax
20528     \let \footnote \thanks
20529     \long\def\@makefnmark##1{\parindent\z@
20530       \def\labelitemi{\textendash}\@revlabeltrue
20531       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20532 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20533 \if@compatibility\setcounter{page}{0}\fi
20534 \null\vfil
20535 \vskip 60\p@
20536 \begin{center}%
20537   \TitleFont
20538   {\LARGE \def\\{\penalty -\@M}
20539     \if@allcaps
20540       \expandafter\uc@nothanks\@title\thanks\relax
20541     \else
20542       \@title
20543     \fi\par}%
20544 \vskip 3em%
20545 {\large
20546   \lineskip .75em \parindent\z@
20547   \begin{tabular}[t]{c}%

```



```

20548         \if@allcaps
20549             \expandafter\uc@authornothanks \@author\and\relax
20550         \else
20551             \@author
20552         \fi
20553     \end{tabular}\par}%
20554 \vskip 1.5em%
20555 {\large
20556     \if@allcaps
20557         \uppercase\expandafter{\@date}%
20558     \else
20559         \@date
20560     \fi\par}%
20561 \end{center}\par
20562 \@thanks
20563 \vfil\null
20564 \end{titlepage}%
20565 \setcounter{footnote}{0}%
20566 \global\let\thanks\relax
20567 \global\let\maketitle\relax
20568 \global\let\@thanks\@empty
20569 \global\let\@author\@empty
20570 \global\let\@title\@empty
20571 \global\let\@date\@empty
20572 \global\let\title\relax
20573 \global\let\author\relax
20574 \global\let\date\relax
20575 \global\let\and\relax
20576 }
20577 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20578 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20579     \futurelet\@tempa\uc@ax}
20580 \def\uc@ax{%
20581     \ifx\@tempa\relax
20582     \else
20583         \ \andname \ \ \expandafter\uc@authornothanks
20584     \fi}
20585 \def\uc@tx{\ifx\@tempa\relax
20586     \else \expandafter\uc@ty \fi}
20587 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20588 \else
20589 \renewcommand*\maketitle{\par
20590 \begingroup
20591     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20592     \def\@makefnmark{\rlap{%
20593         \@textsuperscript{\normalfont\@thefnmark}}}%
20594     \long\def\@makefntext{\@xmakefntext{%
20595         \@textsuperscript{\normalfont\@thefnmark}}}%
20596     \iftwocolumn
20597         \ifnum \col@number=\@ne
20598             \@maketitle
20599         \else
20600             \twocolumn[\@maketitle]%
20601         \fi

```



```

20602     \else
20603         \newpage
20604         \global\@topnum\z@
20605         \@maketitle
20606     \fi
20607     \thispagestyle{plain}\@thanks
20608 \endgroup
20609 \setcounter{footnote}{0}%
20610 \global\let\thanks\relax
20611 \global\let\maketitle\relax
20612 \global\let\@maketitle\relax
20613 \global\let\@thanks\@empty
20614 \global\let\@author\@empty
20615 \global\let\@title\@empty
20616 \global\let\@date\@empty
20617 \global\let\title\relax
20618 \global\let\author\relax
20619 \global\let\date\relax
20620 \global\let\and\relax
20621 }
20622 \def\@maketitle{%
20623     \newpage
20624     \null
20625     \vskip 2em%
20626     \begin{center}%
20627         \let \footnote \thanks
20628         {\LARGE \TitleFont \@title \par}%
20629         \vskip 1.5em%
20630         {\large \TitleFont
20631             \lineskip .5em%
20632             \begin{tabular}[t]{c}%
20633                 \@author
20634             \end{tabular}\par}%
20635         \vskip 1em%
20636         {\large \TitleFont \@date}%
20637     \end{center}%
20638     \par
20639     \vskip 1.5em}
20640 \fi

```

137 File rapport3-xetex-bidi.def

```

20641 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20642 \renewenvironment{theindex}{%
20643     \if@twocolumn
20644         \@restonecolfalse
20645     \else
20646         \@restonecoltrue
20647     \fi
20648     \columnseprule \z@
20649     \columnsep 35\p@
20650     \twocolumn[\@makeschapterhead{\indexname}]%
20651     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20652     \thispagestyle{plain}\parindent\z@

```



```

20653 \parskip\z@ \@plus .3\p@\relax
20654 \let\item\@idxitem
20655 }{%
20656 \if@restonecol\onecolumn\else\clearpage\fi}
20657 \if@titlepage
20658 \renewcommand*{\TitleFont{\rmfamily}}
20659 \renewcommand*\maketitle{%
20660 \begin{titlepage}%
20661 \let\footnotesize\small
20662 \let\right@footnoterule\relax
20663 \let\left@footnoterule\relax
20664 \let\textwidth@footnoterule\relax
20665 \let\footnote\thanks
20666 \let\LTRfootnote\LTRthanks
20667 \let\RTLfootnote\RTLthanks
20668 \long\def\@makefntext##1{\parindent\z@
20669 \def\labelitemi{\textendash}\@revlabeltrue
20670 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20671 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20672 \if@compatibility\setcounter{page}{0}\fi
20673 \null\vfil
20674 \vskip 60\p@
20675 \begin{center}%
20676 \TitleFont
20677 {\LARGE \def\{\penalty -\@M}
20678 \if@allcaps
20679 \expandafter\uc@nothanks\@title\thanks\relax
20680 \else
20681 \@title
20682 \fi\par}%
20683 \vskip 3em%
20684 {\large
20685 \lineskip .75em \parindent\z@
20686 \begin{tabular}[t]{c}%
20687 \if@allcaps
20688 \expandafter\uc@authornothanks\@author\and\relax
20689 \else
20690 \@author
20691 \fi
20692 \end{tabular}\par}%
20693 \vskip 1.5em%
20694 {\large
20695 \if@allcaps
20696 \uppercase\expandafter{\@date}%
20697 \else
20698 \@date
20699 \fi\par}%
20700 \end{center}\par
20701 \@thanks
20702 \vfil\null
20703 \end{titlepage}%
20704 \setcounter{footnote}{0}%
20705 \global\let\thanks\relax
20706 \global\let\LTRthanks\relax

```



```

20707 \global\let\RTLthanks\relax
20708 \global\let\maketitle\relax
20709 \global\let\@thanks\@empty
20710 \global\let\@author\@empty
20711 \global\let\@title\@empty
20712 \global\let\@date\@empty
20713 \global\let\title\relax
20714 \global\let\author\relax
20715 \global\let\date\relax
20716 \global\let\and\relax
20717 }
20718 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20719 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20720 \futurelet\@tempa\uc@ax}
20721 \def\uc@ax{%
20722 \ifx\@tempa\relax
20723 \else
20724 \ \andname \ \expandafter\uc@authornothanks
20725 \fi}
20726 \def\uc@tx{\ifx\@tempa\relax
20727 \else \expandafter\uc@ty \fi}
20728 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20729 \else
20730 \renewcommand*\maketitle{\par
20731 \begingroup
20732 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20733 \def\@makefnmark{\rlap{%
20734 \@textsuperscript{\normalfont\@thefnmark}}}%
20735 \long\def\@makefntext{\@xmakefntext{%
20736 \@textsuperscript{\normalfont\@thefnmark}}}%
20737 \if@twocolumn
20738 \ifnum \col@number=\@ne
20739 \@maketitle
20740 \else
20741 \twocolumn[\@maketitle]%
20742 \fi
20743 \else
20744 \newpage
20745 \global\@topnum\z@
20746 \@maketitle
20747 \fi
20748 \thispagestyle{plain}\@thanks
20749 \endgroup
20750 \setcounter{footnote}{0}%
20751 \global\let\thanks\relax
20752 \global\let\LTRthanks\relax
20753 \global\let\RTLthanks\relax
20754 \global\let\maketitle\relax
20755 \global\let\@maketitle\relax
20756 \global\let\@thanks\@empty
20757 \global\let\@author\@empty
20758 \global\let\@title\@empty
20759 \global\let\@date\@empty
20760 \global\let\title\relax

```



```

20761 \global\let\author\relax
20762 \global\let\date\relax
20763 \global\let\and\relax
20764 }
20765 \def\@maketitle{%
20766 \newpage
20767 \null
20768 \vskip 2em%
20769 \if@titlecentered
20770 \begin{center}%
20771 \let \footnote \thanks
20772 \let \LTRfootnote \LTRthanks
20773 \let \RTLfootnote \RTLthanks
20774 {\LARGE \TitleFont \@title \par}%
20775 \vskip 1.5em%
20776 {\large \TitleFont
20777 \lineskip .5em%
20778 \begin{tabular}[t]{c}%
20779 \@author
20780 \end{tabular}\par}%
20781 \vskip 1em%
20782 {\large \TitleFont \@date}%
20783 \end{center}%
20784 \else
20785 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20786 {\large \TitleFont \lineskip .5em \tabcolsep\z@
20787 \def\and{%% \begin{tabular} has already started
20788 \end{tabular}\hskip 1em plus .17fil
20789 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabular}
20790 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}}
20791 \vskip 1em {\large \TitleFont \@date}
20792 \fi
20793 \par
20794 \vskip 1.5em}
20795 \fi
20796 \renewcommand*\@regtocline[3]{%
20797 \ifnum #1>\c@tocdepth
20798 \else
20799 \vskip\z@\@plus.2\p@
20800 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20801 \if@RTL\righskip\else\leftskip\fi\unitindent
20802 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20803 \parfillskip\z@
20804 \@tempdima\unitindent
20805 \parindent\z@
20806 \leavevmode
20807 \hbox{\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20808 \hskip 1em \nobreak{\slshape #3}\par
20809 }%
20810 \fi}
20811 \if@oldtoc
20812 \renewcommand*\l@part[2]{%
20813 \ifnum \c@tocdepth >-2\relax
20814 \addpenalty{-\@highpenalty}%

```



```

20815 \advspace{2.25em \@plus\p@}%
20816 \begingroup
20817 \setlength\@tempdima{3em}%
20818 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20819 \parfillskip -\@pnumwidth
20820 {\leavevmode
20821 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20822 \nobreak
20823 \global\@nobreaktrue
20824 \everypar{\global\@nobreakfalse\everypar{}}%
20825 \endgroup
20826 \fi}
20827 \else
20828 \renewcommand*\l@part{%
20829 \ifnum \c@tocdepth >-2\relax
20830 \addpenalty{-\@highpenalty}%
20831 \advspace{2.25em \@plus \p@}%
20832 \@regtocline{0}%
20833 \fi}
20834 \fi
20835 \if@oldtoc
20836 \renewcommand*\l@chapter[2]{%
20837 \addpenalty{-\@highpenalty}%
20838 \vskip 1.0em \@plus\p@
20839 \setlength\@tempdima{1.5em}%
20840 \begingroup
20841 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20842 \parfillskip -\@pnumwidth
20843 \leavevmode \bfseries
20844 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20845 \hskip -\if@RTL\rightskip\else\leftskip\fi
20846 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20847 \penalty\@highpenalty
20848 \endgroup}
20849 \else
20850 \renewcommand*\l@chapter{\@regtocline{0}}
20851 \fi
20852 \renewcommand*\head@style{%
20853 \interlinepenalty \@M
20854 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20855 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizelax}
20856 \if@titlepage
20857 \renewenvironment{abstract}{%
20858 \titlepage
20859 \null\vfil
20860 \section*{\SectFont\abstractname}%
20861 \noindent\ignorespaces}
20862 {\par\vfil\null\endtitlepage}
20863 \else
20864 \renewenvironment{abstract}{%
20865 \if@twocolumn
20866 \section*{\abstractname}%
20867 \else
20868 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent

```



```

20869     \section*{\small\SectFont\abstractname}%
20870     \noindent\ignorespaces
20871     \fi}
20872     {\if@twocolumn\else\par\egroup\fi}
20873 \fi
20874 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20875 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20876 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20877 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20878 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20879 \renewcommand*\thefigure{%
20880   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20881 \renewcommand*\thetable{%
20882   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20883 \renewcommand*\theequation{%
20884   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20885 \renewenvironment{thebibliography}[1]
20886   {\chapter*{\bibname}%
20887     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20888     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20889     \bidi@thebibliography@font@hook%
20890     \list{\@biblabel{\@arabic\c@enumiv}}%
20891       {\settowidth\labelwidth{\@biblabel{#1}}%
20892         \leftmargin\labelwidth
20893         \advance\leftmargin\labelsep
20894         \@openbib@code
20895         \usecounter{enumiv}%
20896         \let\p@enumiv\@empty
20897         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20898     \sloppy\clubpenalty4000\widowpenalty4000%
20899     \sfcode`..\@m}
20900   {\def\@noitemerr
20901     {\@latex@warning{Empty `thebibliography' environment}}}%
20902     \endlist}
20903 \renewcommand*\left@footnoterule{%
20904   \kern-3\p@
20905   \kern.5\baselineskip
20906   \hrule\@width\unitindent
20907   \kern.4\baselineskip
20908 }
20909 \renewcommand*\right@footnoterule{%
20910   \kern-3\p@
20911   \kern.5\baselineskip
20912   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20913   \kern.4\baselineskip}
20914 \renewcommand*\head@style{%
20915   \interlinepenalty \@M
20916   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20917   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

138 File refrep-xetex-bidi.def

```

20918 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20919 \if@titlepage

```




```

20920 \renewcommand\maketitle{\begin{titlepage}%
20921 \let\footnotesize\small
20922 \let\right@footnoterule\relax
20923 \let\left@footnoterule\relax
20924 \let\textwidth@footnoterule\relax
20925 \let\footnote\thanks
20926 \let\LTRfootnote\LTRthanks
20927 \let\RTLfootnote\RTLthanks
20928 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20929 \def\@makefnmark%
20930     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20931 \long\def\@makefnmark##1{%
20932     \@setpar{\@par
20933         \@tempdima = \hspace
20934         \advance\@tempdima -1em
20935         \parshape \@ne 1em \@tempdima}%
20936     \par\parindent 1em \noindent
20937     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20938 \null\vfil
20939 \vskip 60\p@
20940 \begin{center}%
20941     {\LARGE \@title \par}%
20942     \vskip 3em%
20943     {\large
20944     \lineskip .75em%
20945     \begin{tabular}[t]{c}%
20946         \@author
20947     \end{tabular}\par}%
20948     \vskip 1.5em%
20949     {\large \@date \par}%           % Set date in \large size.
20950 \end{center}\par
20951 \@thanks
20952 \vfil\null
20953 \end{titlepage}%
20954 \setcounter{footnote}{0}%
20955 \global\let\thanks\relax
20956 \global\let\LTRthanks\relax
20957 \global\let\RTLthanks\relax
20958 \global\let\maketitle\relax
20959 \global\let\@thanks\@empty
20960 \global\let\@author\@empty
20961 \global\let\@date\@empty
20962 \global\let\@title\@empty
20963 \global\let\title\relax
20964 \global\let\author\relax
20965 \global\let\date\relax
20966 \global\let\and\relax
20967 }
20968 \else
20969 \renewcommand\maketitle{\par
20970     \begingroup
20971     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20972     \def\@makefnmark%
20973     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

20974 \long\def\@makefntext##1{%
20975 \setpar{\@par
20976 \tempdima = \hsize
20977 \advance\tempdima -1em
20978 \parshape \@ne 1em \tempdima}%
20979 \par\parindent 1em \noindent
20980 \hb@xt@\z@\{ \hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20981 \if@twocolumn
20982 \ifnum \col@number=\@ne
20983 \maketitle
20984 \else
20985 \twocolumn[\maketitle]%
20986 \fi
20987 \else
20988 \newpage
20989 \global\@topnum\z@ % Prevents figures from going at top of page.
20990 \maketitle
20991 \fi
20992 \thispagestyle{empty}\@thanks
20993 \endgroup
20994 \setcounter{footnote}{0}%
20995 \global\let\thanks\relax
20996 \global\let\LTRthanks\relax
20997 \global\let\RTLthanks\relax
20998 \global\let\maketitle\relax
20999 \global\let\@maketitle\relax
21000 \global\let\@thanks\@empty
21001 \global\let\@author\@empty
21002 \global\let\@date\@empty
21003 \global\let\@title\@empty
21004 \global\let\title\relax
21005 \global\let\author\relax
21006 \global\let\date\relax
21007 \global\let\and\relax
21008 }
21009 \def\@maketitle{%
21010 \newpage
21011 \null
21012 \longthickrule\vskip1.5em%
21013 \let \footnote \thanks
21014 \let \LTRfootnote \LTRthanks
21015 \let \RTLfootnote \RTLthanks
21016 {\secshape \parskip\z@ \parindent\z@
21017 \Large\bfseries \@title \par}%
21018 \vskip1.5em\longthickrule\vskip1.5em%
21019 {\normalsize
21020 \lineskip .5em%
21021 \begin{flushright}%
21022 {\slshape\@author\par}
21023 \vskip 1em%
21024 {\@date}%
21025 \end{flushright}\par}%
21026 \vskip 1.5em}
21027 \fi

```



```

21028 \renewcommand*\l@part[2]{%
21029   \ifnum \c@tocdepth >-2\relax
21030     \addpenalty{-\@highpenalty}%
21031     \addvspace{2.25em \@plus\p@}%
21032     \begingroup
21033       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21034       \parfillskip -\@pnumwidth
21035       {\leavevmode
21036         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
21037       \nobreak
21038       \global\@nobreaktrue
21039       \everypar{\global\@nobreakfalse\everypar{}}%
21040     \endgroup
21041   \fi}
21042 \renewcommand*\l@chapter[2]{%
21043   \ifnum \c@tocdepth >\m@ne
21044     \addpenalty{-\@highpenalty}%
21045     \vskip 1.0em \@plus\p@
21046     \setlength\@tempdima{1.5em}%
21047     \begingroup
21048       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21049       \parfillskip -\@pnumwidth
21050       \leavevmode \bfseries
21051       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21052       \hskip -\if@RTL\rightskip\else\leftskip\fi
21053       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21054       \penalty\@highpenalty
21055     \endgroup
21056   \fi}
21057 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21058   \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21059   \hyphenpenalty=2000}
21060 \renewcommand\left@footnoterule{%
21061   \kern-3\p@
21062   \hrule\@width.4\columnwidth
21063   \kern 2.6\p@}
21064 \renewcommand\right@footnoterule{%
21065   \kern-3\p@
21066   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21067   \kern2.6\p@}
21068 \renewcommand\theequation
21069 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21070 \renewcommand\thefigure
21071   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21072 \renewcommand\thetable%
21073   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21074 \renewcommand\thesection   {\thechapter\@SepMark\@arabic\c@section}
21075 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21076 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21077 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21078 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21079 \renewenvironment{thebibliography}[1]
21080   {\chapter*{\bibname
21081     \mkboth{\bibname}{\bibname}}%

```



```

21082     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21083     \bidi@thebibliography@font@hook%
21084     \list{\@biblabel{\@arabic\c@enumiv}}%
21085         {\settowidth\labelwidth{\@biblabel{#1}}%
21086          \leftmargin\labelwidth
21087          \advance\leftmargin\labelsep
21088          \@openbib@code
21089          \usecounter{enumiv}}%
21090     \let\p@enumiv\@empty
21091     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21092     \sloppy
21093     \clubpenalty4000
21094     \@clubpenalty \clubpenalty
21095     \widowpenalty4000%
21096     \sfcode\.\@m}
21097 {\def\@noitemerr
21098  {\@latex@warning{Empty `thebibliography' environment}}}%
21099     \endlist}

```

139 File report-xetex-bidi.def

```

21100 \ProvidesFile{report-xetex-bidi.def}[2025/02/02 v0.9 bidi adaptations for standard report class]
21101 \renewenvironment{theindex}
21102     {\if@twocolumn
21103      \@restonecolfalse
21104      \else
21105       \@restonecoltrue
21106      \fi
21107      \columnseprule \z@
21108      \columnsep 35\p@
21109      \twocolumn[\@makeschapterhead{\indexname}]}%
21110     \@mkboth{\MakeUppercase\indexname}%
21111             {\MakeUppercase\indexname}%
21112     \thispagestyle{plain}\parindent\z@
21113     \parskip\z@ \@plus .3\p@\relax
21114     \let\item\@idxitem}
21115     {\if@restonecol\onecolumn\else\clearpage\fi}
21116 \if@titlepage
21117 \renewcommand\maketitle{\begin{titlepage}%
21118 \let\footnotesize\small
21119 \let\right@footnoterule\relax
21120 \let\left@footnoterule\relax
21121 \let\textwidth@footnoterule\relax
21122 \let \footnote \thanks
21123 \let \LTRfootnote \LTRthanks
21124 \let \RTLfootnote \RTLthanks
21125 \null\vfil
21126 \vskip 60\p@
21127 \begin{center}%
21128   {\LARGE \@title \par}%
21129   \vskip 3em%
21130   {\large
21131     \lineskip .75em%
21132     \begin{tabular}[t]{c}%

```



```

21133     \@author
21134     \end{tabular}\par}%
21135     \vskip 1.5em%
21136     {\large \@date \par}%           % Set date in \large size.
21137 \end{center}\par
21138 \@thanks
21139 \vfil\null
21140 \end{titlepage}%
21141 \setcounter{footnote}{0}%
21142 \global\let\thanks\relax
21143 \global\let\LTRthanks\relax
21144 \global\let\RTLthanks\relax
21145 \global\let\maketitle\relax
21146 \global\let\@thanks\@empty
21147 \global\let\@author\@empty
21148 \global\let\@date\@empty
21149 \global\let\@title\@empty
21150 \global\let\title\relax
21151 \global\let\author\relax
21152 \global\let\date\relax
21153 \global\let\and\relax
21154 }
21155 \else
21156 \renewcommand\maketitle{\par
21157   \begingroup
21158     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21159     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21160     \long\def\@makefntext##1{\parindent 1em\noindent
21161       \hb@xt@1.8em{%
21162         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21163     \if@twocolumn
21164       \ifnum \col@number=\@ne
21165         \@maketitle
21166       \else
21167         \twocolumn[\@maketitle]%
21168       \fi
21169     \else
21170       \newpage
21171       \global\@topnum\z@   % Prevents figures from going at top of page.
21172       \@maketitle
21173     \fi
21174     \thispagestyle{plain}\@thanks
21175   \endgroup
21176   \setcounter{footnote}{0}%
21177   \global\let\thanks\relax
21178   \global\let\LTRthanks\relax
21179   \global\let\RTLthanks\relax
21180   \global\let\maketitle\relax
21181   \global\let\@maketitle\relax
21182   \global\let\@thanks\@empty
21183   \global\let\@author\@empty
21184   \global\let\@date\@empty
21185   \global\let\@title\@empty
21186   \global\let\title\relax

```



```

21187 \global\let\author\relax
21188 \global\let\date\relax
21189 \global\let\and\relax
21190 }
21191 \def\@maketitle{%
21192 \newpage
21193 \null
21194 \vskip 2em%
21195 \begin{center}%
21196 \let \footnote \thanks
21197 \let \LTRfootnote \LTRthanks
21198 \let \RTLfootnote \RTLthanks
21199 {\LARGE \@title \par}%
21200 \vskip 1.5em%
21201 {\large
21202 \lineskip .5em%
21203 \begin{tabular}[t]{c}%
21204 \@author
21205 \end{tabular}\par}%
21206 \vskip 1em%
21207 {\large \@date}%
21208 \end{center}%
21209 \par
21210 \vskip 1.5em}
21211 \fi
21212 \IfPackageLoadedF{tocloft}{%
21213 \renewcommand*\l@part[2]{%
21214 \ifnum \c@tocdepth >-2\relax
21215 \addpenalty{-\@highpenalty}%
21216 \addvspace{2.25em \@plus\p@}%
21217 \setlength\@tempdima{3em}%
21218 \begingroup
21219 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21220 \parfillskip -\@pnumwidth
21221 {\leavevmode
21222 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21223 \nobreak
21224 \global\@nobreaktrue
21225 \everypar{\global\@nobreakfalse\everypar{}}%
21226 \endgroup
21227 \fi}
21228 \renewcommand*\l@chapter[2]{%
21229 \ifnum \c@tocdepth >\m@ne
21230 \addpenalty{-\@highpenalty}%
21231 \vskip 1.0em \@plus\p@
21232 \setlength\@tempdima{1.5em}%
21233 \begingroup
21234 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21235 \parfillskip -\@pnumwidth
21236 \leavevmode \bfseries
21237 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21238 \hskip -\if@RTL\rightskip\else\leftskip\fi
21239 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21240 \penalty\@highpenalty

```



```

21241 \endgroup
21242 \fi}
21243 }
21244 \renewcommand\left@footnoterule{%
21245 \kern-3\p@
21246 \hrule\@width.4\columnwidth
21247 \kern2.6\p@}
21248 \renewcommand\right@footnoterule{%
21249 \kern-3\p@
21250 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21251 \kern2.6\p@}
21252 \renewcommand\theequation
21253 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21254 \renewcommand \thefigure
21255 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21256 \renewcommand \thetable
21257 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21258 \renewcommand \thechapter {\@arabic\c@chapter}
21259 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21260 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21261 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21262 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21263 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21264 \def\@makechapterhead#1{%
21265 \vspace*{50\p@}%
21266 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21267 \ifnum \c@secnumdepth >\m@ne
21268 \huge\bfseries \@chapapp\space \thechapter
21269 \par\nobreak
21270 \vskip 20\p@
21271 \fi
21272 \interlinepenalty\@M
21273 \Huge \bfseries #1\par\nobreak
21274 \vskip 40\p@
21275 }}
21276 \def\@makeschapterhead#1{%
21277 \vspace*{50\p@}%
21278 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21279 \normalfont
21280 \interlinepenalty\@M
21281 \Huge \bfseries #1\par\nobreak
21282 \vskip 40\p@
21283 }}
21284 \renewenvironment{thebibliography}[1]
21285 {\chapter*{\bibname}%
21286 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21287 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21288 \bidi@thebibliography@font@hook%
21289 \list{\@biblabel{\@arabic\c@enumiv}}%
21290 {\settowidth\labelwidth{\@biblabel{#1}}%
21291 \leftmargin\labelwidth
21292 \advance\leftmargin\labelsep
21293 \@openbib@code
21294 \usecounter{enumiv}}%

```



```

21295         \let\p@enumiv\@empty
21296         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21297     \sloppy
21298     \clubpenalty4000
21299     \@clubpenalty \clubpenalty
21300     \widowpenalty4000%
21301     \sfcode`\.\@m}
21302     {\def\@noitemerr
21303       {\@latex@warning{Empty `thebibliography' environment}}}%
21304     \endlist}

```

140 File rotating-xetex-bidi.def

```

21305 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21306 \def\end@rotfloat{%
21307   \end{minipage}\end{lrbox}%
21308   \stepcounter{r@tfl@t}%
21309   \rot@label{RF\ther@tfl@t}%
21310   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21311   \edef\@tempa{Adding sideways \@c@type\space on page \R@@page\space}
21312   \rot@m@ss@toks\expandafter{\@tempa}
21313   \wd\rot@float@box\z@
21314   \ht\rot@float@box\z@
21315   \dp\rot@float@box\z@
21316   \vboxL to \textheight{%
21317     \setkeys{Grot}{units=360}}%
21318   \if@rot@twoside
21319   \else
21320     \let\R@@page\rot@LR
21321   \fi
21322   \ifthenelse{\isodd{\R@@page}}{%
21323     \if@rot@twoside
21324       \rot@m@ss@toks\expandafter{\the\rot@m@ss@toks (right hand page)}%
21325     \fi
21326     \vfill
21327     \@@line{%
21328       \hskip\rotFPtop
21329       \rotatebox{90}{\box\rot@float@box}%
21330       \hskip\rotFPbot
21331     }%
21332   }{%
21333     \if@rot@twoside
21334       \rot@m@ss@toks\expandafter{\the\rot@m@ss@toks (left hand page)}%
21335     \fi
21336     \@@line{%
21337       \hskip\rotFPbot
21338       \rotatebox{-90}{\box\rot@float@box}%
21339       \hskip\rotFPtop
21340     }%
21341     \vfill
21342   }%
21343   \rot@m@ss@toks{\the\rot@m@ss@toks}
21344 }%
21345 \end@float

```




```

21346 }
21347 \let\endsidewaysfigure\end@rotfloat
21348 \let\endsidewaystable\end@rotfloat
21349 \def\end@rotdblfloat{%
21350 \end{minipage}\end{lrbox}%
21351 \stepcounter{r@tfl@t}%
21352 \rot@label{RF\ther@tfl@t}%
21353 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21354 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21355 \rot@mess@toks\expandafter{\@tempa}
21356 \@tempdima\ht\rot@float@box
21357 \advance\@tempdima by \dp\rot@float@box
21358 \wd\rot@float@box\z@
21359 \ht\rot@float@box\z@
21360 \dp\rot@float@box\z@
21361 \vboxL to \textheight{%
21362 \setkeys{Grot}{units=360}%
21363 \if@rot@twoside
21364 \else
21365 \let\R@@page\rot@LR
21366 \fi
21367 \ifthenelse{\isodd{\R@@page}}{%
21368 \ifrot@messages
21369 \if@rot@twoside
21370 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21371 \fi
21372 \fi
21373 \vfill
21374 \@@line{%
21375 \hskip\rotFPtop
21376 \rotatebox{90}{\box\rot@float@box}%
21377 \hskip\rotFPbot
21378 }%
21379 }{%
21380 \ifrot@messages
21381 \if@rot@twoside
21382 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21383 \fi
21384 \fi%
21385 \@@line{%
21386 \hskip\rotFPbot
21387 \rotatebox{-90}{\box\rot@float@box}%
21388 \hskip\rotFPtop
21389 }%
21390 \vfill
21391 }%
21392 \rot@message{\the\rot@mess@toks}%
21393 }%
21394 \end@dblfloat
21395 }
21396 \def\turn#1{%
21397 \Grot@setangle{#1}%
21398 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21399 \def\endturn{%

```



```

21400 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21401 \unskip\color@endbox
21402 \Grot@x\z@
21403 \Grot@y\z@
21404 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21405 }
21406 \def\rotate#1{%
21407 \Grot@setangle{#1}%
21408 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21409 \def\endrotate{%
21410 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21411 \unskip\color@endbox
21412 \Grot@x\z@
21413 \Grot@y\z@
21414 \wd0\z@\dp0\z@\ht0\z@
21415 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21416 }
21417 \def\turnbox#1#2{%
21418 \Grot@setangle{#1}%
21419 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21420 \Grot@x\z@\Grot@y\z@
21421 \wd0\z@\dp0\z@\ht0\z@
21422 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21423 }
21424 \def\sideways{%
21425 \Grot@setangle{90}%
21426 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21427 \def\endsideways{%
21428 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21429 \unskip\color@endbox
21430 \Grot@x\z@
21431 \Grot@y\z@
21432 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21433 }

```

141 File `scrartcl-xetex-bidi.def`

```

21434 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21435 \newcommand{\scr@saved@LTRfootnotetext}{}
21436 \newcommand{\scr@saved@RTLfootnotetext}{}
21437 \let\scr@saved@footnotetext\@footnotetext
21438 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21439 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21440 \renewcommand{\@footnotetext}[1]{%
21441 \scr@saved@footnotetext{#1}%
21442 \csname FN@mf@prepare\endcsname
21443 }
21444 \renewcommand{\@LTRfootnotetext}[1]{%
21445 \scr@saved@LTRfootnotetext{#1}%
21446 \csname FN@mf@prepare\endcsname
21447 }
21448 \renewcommand{\@RTLfootnotetext}[1]{%
21449 \scr@saved@RTLfootnotetext{#1}%
21450 \csname FN@mf@prepare\endcsname

```



```

21451 }
21452 \renewcommand\deffootnote[4] [] {%
21453   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21454     \long\def\@makefntext##1{%
21455       \ExecuteDoHook{footnote/text/begin}%
21456       \raggedfootnote
21457       \if@RTL
21458         \rightskip
21459       \else
21460         \leftskip
21461       \fi
21462       #2
21463       \l@addto@macro\@trivlist{%
21464         \ifnum\@listdepth=\@one
21465           \if@RTL
21466             \advance\rightmargin #2\relax
21467           \else
21468             \advance\leftmargin #2\relax
21469           \fi
21470         \fi
21471       }%
21472       \parindent #3\noindent
21473       \IfArgIsEmpty{#1}{}%
21474       \hskip \dimexpr #1-#2\relax
21475     }%
21476     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21477     \ExecuteDoHook{footnote/text/end}%
21478   }%
21479 \else
21480   \ClassInfo{\KOMAClassName}{%
21481     Using old \string\@makefntext\space due to compatibility
21482     level\MessageBreak
21483     less than 3.22}%
21484   \long\def\@makefntext##1{%
21485     \setlength{\@tempdimc}{#3}%
21486     \def\@tempa{#1}\ifx\@tempa\@empty
21487       \setpar{\@par
21488         \@tempdima = \hsize
21489         \addtolength{\@tempdima}{-#2}%
21490         \if@RTL
21491           \parshape \@one \z@ \@tempdima
21492         \else
21493           \parshape \@one #2 \@tempdima
21494         \fi}%
21495     \else
21496       \addtolength{\@tempdimc}{#2}%
21497       \addtolength{\@tempdimc}{-#1}%
21498       \setpar{\@par
21499         \@tempdima = \hsize
21500         \addtolength{\@tempdima}{-#1}%
21501         \@tempdimb = \hsize
21502         \addtolength{\@tempdimb}{-#2}%
21503         \if@RTL
21504           \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb

```



```

21505         \else
21506             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21507         \fi
21508     }%
21509 \fi
21510 \par
21511 \parindent\@tempdimc\noindent
21512 \ftn@font\hbox to \z@\{\hss\@makefnmark\}##1%
21513 }%
21514 \fi
21515 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21516 }
21517 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21518 \renewcommand*\left@footnoterule{%
21519     \normalsize\ftn@rule@test@values
21520     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21521     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21522     {\usekomafont{footnoterule}{%
21523         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21524     \kern 2.6\p@}
21525 \renewcommand*\right@footnoterule{%
21526     \normalsize\ftn@rule@test@values
21527     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21528     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21529     {\usekomafont{footnoterule}{%
21530         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21531         \kern 2.6\p@}
21532 \renewcommand*\maketitle[1][1]{%
21533     \expandafter\ifnum \curname scr@v@3.12\endcurname>\scr@compatibility\relax
21534     \else
21535         \def\and{%
21536             \end{tabular}}%
21537         \hskip 1em \@plus.17fil%
21538         \begin{tabular}[t]{c}%
21539     }%
21540 \fi
21541 \if@titlepage
21542     \begin{titlepage}
21543     \setcounter{page}{%
21544         #1%
21545     }%
21546     \if@titlepageiscoverpage
21547         \edef\titlepage@restore{%
21548             \noexpand\endgroup
21549             \noexpand\global\noexpand\@colht\the\@colht
21550             \noexpand\global\noexpand\@colroom\the\@colroom
21551             \noexpand\global\vsizethe\vsizethe
21552             \noexpand\global\noexpand\@titlepageiscoverpagefalse
21553             \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21554         }%
21555         \begingroup
21556         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21557         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21558         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax

```



```

21559     \textwidth=\dimexpr
21560     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21561     \textheight=\dimexpr
21562     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21563     \headheight=0pt
21564     \headsep=0pt
21565     \footskip=\baselineskip
21566     \@colht=\textheight
21567     \@colroom=\textheight
21568     \vsize=\textheight
21569     \columnwidth=\textwidth
21570     \hsize=\columnwidth
21571     \linewidth=\hsize
21572   \else
21573     \let\titlepage@restore\relax
21574   \fi
21575   \let\footnotesize\small
21576   \let\right@footnoterule\relax
21577   \let\left@footnoterule\relax
21578   \let\textwidth@footnoterule\relax
21579   \let\footnote\thanks
21580   \let\LTRfootnote\LTRthanks
21581   \let\RTLfootnote\RTLthanks
21582   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21583   \let\oldmakefnmark\makefnmark
21584   \renewcommand*{\@makefnmark}{\rlap\oldmakefnmark}%
21585   \ifx\extratitle\@empty
21586     \ifx\frontispiece\@empty
21587     \else
21588       \if@twoside\mbox{}\next@tpage\fi
21589       \noindent\@frontispiece\next@tdpage
21590     \fi
21591   \else
21592     \noindent\extratitle
21593     \ifx\frontispiece\@empty
21594     \else
21595       \next@tpage
21596       \noindent\@frontispiece
21597     \fi
21598     \next@tdpage
21599   \fi
21600   \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21601   \ifx\@titlehead\@empty \else
21602     \begin{minipage}[t]{\textwidth}%
21603       \usekomafont{titlehead}{\@titlehead\par}%
21604     \end{minipage}\par
21605   \fi
21606   \null\vfill
21607   \begin{center}
21608     \ifx\@subject\@empty \else
21609       {\usekomafont{subject}{\@subject\par}}%
21610     \vskip 3em
21611   \fi
21612   {\usekomafont{title}{\huge \@title\par}}%

```



```

21613     \vskip 1em
21614     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21615     \vskip 2em
21616     {%
21617         \usekomafont{author}{%
21618             \lineskip 0.75em
21619             \begin{tabular}[t]{c}
21620                 \@author
21621             \end{tabular}\par
21622         }%
21623     }%
21624     \vskip 1.5em
21625     {\usekomafont{date}{\@date \par}}%
21626     \vskip \z@ \@plus3fill
21627     {\usekomafont{publishers}{\@publishers \par}}%
21628     \vskip 3em
21629     \end{center}\par
21630     \@thanks\global\let\@thanks\@empty
21631     \vfill\null
21632     \if@twoside
21633         \@tempswatrue
21634         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21635         \else
21636             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21637                 \@tempswafalse
21638             \fi\fi
21639         \fi
21640         \if@tempswa
21641             \next@tpage
21642             \begin{minipage}[t]{\textwidth}
21643                 \@uppertitleback
21644             \end{minipage}\par
21645             \vfill
21646             \begin{minipage}[b]{\textwidth}
21647                 \@lowertitleback
21648             \end{minipage}\par
21649             \@thanks\global\let\@thanks\@empty
21650         \fi
21651     \else
21652         \ifx\@uppertitleback\@empty\else
21653             \ClassWarning{\KOMAClassName}{%
21654                 non empty \string\uppertitleback\space ignored
21655                 by \string\maketitle\MessageBreak
21656                 in `twoside=false' mode%
21657             }%
21658         \fi
21659         \ifx\@lowertitleback\@empty\else
21660             \ClassWarning{\KOMAClassName}{%
21661                 non empty \string\lowertitleback\space ignored
21662                 by \string\maketitle\MessageBreak
21663                 in `twoside=false' mode%
21664             }%
21665         \fi
21666     \fi

```



```

21667 \ifx\@dedication\@empty
21668 \else
21669 \next@tdpage\null\vfill
21670 {\centering\usekomafont{dedication}{\@dedication \par}}%
21671 \vskip \z@ \@plus3fill
21672 \@thanks\global\let\@thanks\@empty
21673 \cleardoubleemptypage
21674 \fi
21675 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21676 \end{titlepage}
21677 \else
21678 \par
21679 \@tempcnta=%
21680 #1%
21681 \relax\ifnum\@tempcnta=1\else
21682 \ClassWarning{\KOMAClassName}{%
21683 Optional argument of \string\maketitle\space ignored\MessageBreak
21684 in `titlepage=false' mode%
21685 }%
21686 \fi
21687 \ifx\@uppertitleback\@empty\else
21688 \ClassWarning{\KOMAClassName}{%
21689 non empty \string\uppertitleback\space ignored
21690 by \string\maketitle\MessageBreak
21691 in `titlepage=false' mode%
21692 }%
21693 \fi
21694 \ifx\@lowertitleback\@empty\else
21695 \ClassWarning{\KOMAClassName}{%
21696 non empty \string\lowertitleback\space ignored
21697 by \string\maketitle\MessageBreak
21698 in `titlepage=false' mode%
21699 }%
21700 \fi
21701 \begingroup
21702 \let\titlepage@restore\relax
21703 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21704 \let\@oldmakefnmark\@makefnmark
21705 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21706 \next@tdpage
21707 \if@twocolumn
21708 \ifnum \col@number=\@ne
21709 \ifx\@extratitle\@empty
21710 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21711 \else
21712 \@makeextratitle
21713 \fi
21714 \ifx\@frontispiece\@empty
21715 \ifx\@extratitle\@empty\else\next@tdpage\fi
21716 \else
21717 \next@tpage
21718 \@makefrontispiece
21719 \next@tdpage
21720 \fi

```



```

21721         \@maketitle
21722     \else
21723         \ifx\@extratitle\@empty
21724             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21725         \else
21726             \twocolumn[\@makeextratitle]%
21727         \fi
21728         \ifx\@frontispiece\@empty
21729             \ifx\@extratitle\@empty\else\next@tdpage\fi
21730         \else
21731             \next@tpage
21732             \twocolumn[\@makefrontispiece]%
21733             \next@tdpage
21734         \fi
21735         \twocolumn[\@maketitle]%
21736     \fi
21737 \else
21738     \ifx\@extratitle\@empty
21739         \ifx\@frontispiece\@empty\else \mbox{}\fi
21740     \else
21741         \@makeextratitle
21742     \fi
21743     \ifx\@frontispiece\@empty
21744         \ifx\@extratitle\@empty\else\next@tdpage\fi
21745     \else
21746         \next@tpage
21747         \@makefrontispiece
21748         \next@tdpage
21749     \fi
21750     \@maketitle
21751 \fi
21752     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21753     \@thanks\global\let\@thanks\@empty
21754 \endgroup
21755 \fi
21756 \setcounter{footnote}{0}%
21757 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21758     \let\thanks\relax
21759     \let\LTRthanks\relax
21760     \let\RTLthanks\relax
21761     \let\maketitle\relax
21762     \let\@maketitle\relax
21763     \global\let\@thanks\@empty
21764     \global\let\@author\@empty
21765     \global\let\@date\@empty
21766     \global\let\@title\@empty
21767     \global\let\@subtitle\@empty
21768     \global\let\@extratitle\@empty
21769     \global\let\@frontispiece\@empty
21770     \global\let\@titlehead\@empty
21771     \global\let\@subject\@empty
21772     \global\let\@publishers\@empty
21773     \global\let\@uppertitleback\@empty
21774     \global\let\@lowertitleback\@empty

```




```

21775 \global\let\@dedication\@empty
21776 \global\let\author\relax
21777 \global\let\title\relax
21778 \global\let\extratitle\relax
21779 \global\let\titlehead\relax
21780 \global\let\subject\relax
21781 \global\let\publishers\relax
21782 \global\let\uppertitleback\relax
21783 \global\let\lowertitleback\relax
21784 \global\let\dedication\relax
21785 \global\let\date\relax
21786 \fi
21787 \global\let\and\relax
21788 }%
21789 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21790 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21791 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21792 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21793 \renewcommand*\thesubsubsection{%
21794 \thesubsection\@SepMark\@arabic\c@subsubsection
21795 }
21796 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21797 \renewcommand*\thesubparagraph{%
21798 \theparagraph\@SepMark\@arabic\c@subparagraph
21799 }
21800 \renewenvironment{thebibliography}[1]{%
21801 \if@bib@break@
21802 \bib@beginhook
21803 \else
21804 \bib@heading
21805 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21806 \noindent\bibpreamble\par\nobreak
21807 \fi\fi
21808 \bib@beginhook
21809 \bib@before@hook
21810 \fi
21811 \renewcommand{\BreakBibliography}[1]{%
21812 \@bib@break
21813 \end{thebibliography}%
21814 \begingroup ##1\endgroup
21815 \begin{thebibliography}{#1}
21816 }%
21817 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21818 \bidi@\thebibliography@font@hook%
21819 \list{%
21820 \@biblabel{\@arabic\c@enumiv}%
21821 }{%
21822 \settowidth\labelwidth{\@biblabel{#1}}%
21823 \leftmargin\labelwidth
21824 \advance\leftmargin\labelsep
21825 \@openbib@code
21826 \if@bib@break@
21827 \edef\@tempa{%
21828 \noexpand\usecounter{enumiv}}%

```



```

21829     \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21830     }\@tempa
21831     \no@bib@break
21832     \else
21833     \usecounter{enumiv}%
21834     \fi
21835     \let\p@enumiv\@empty
21836     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21837 }%
21838 \sloppy\clubpenalty4000 \widowpenalty4000
21839 \sfcode`\.=\@m
21840 }{%
21841 \if@bib@break@
21842   \def\@noitemerr{%
21843     \@latex@warning{%
21844       \string\BreakBibliography\space at begin of `thebibliography'
21845       environment\MessageBreak
21846       or following \string\BreakBibliography}%
21847   }%
21848 \else
21849   \def\@noitemerr{%
21850     \@latex@warning{%
21851       Empty `thebibliography' environment or
21852       \string\BreakBibliography\MessageBreak
21853       before end of `thebibliography' environment}%
21854   }%
21855 \fi
21856 \endlist
21857 \if@bib@break@
21858 \else
21859   \bib@after@hook
21860   \let\bib@before@hook\@empty
21861   \let\bib@after@hook\@empty
21862 \fi
21863 \bib@endhook
21864 }
21865 \renewcommand*\@raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21866 \renewcommand*\@raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21867 \renewcommand*\@raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21868 \renewcommand\marginline[1]{%
21869   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21870 }
21871 \renewcommand{\@makecaption}[3]{%
21872   \cap@margin
21873   \begingroup
21874     \ifonelinecaptions
21875     \def\stepcounter##1{\advance\value{##1}\@ne}%
21876     \let\refstepcounter\stepcounter
21877     \let\label\@gobble
21878     \let\@footnotetext=\@gobble
21879     \let\@LTRfootnotetext=\@gobble
21880     \let\@RTLfootnotetext=\@gobble
21881     \let\hypertarget\@gobbletwo
21882     \edef\xnewline{%

```



```

21883     \unexpanded{\ClassInfo{\KOMAClassName}{%
21884         Workaround for not recommended usage of \string\\ or\MessageBreak
21885         \string\newline in caption text
21886     }%
21887     \hspace*{\linewidth}\hspace{1sp}%
21888 }%
21889     \unexpanded\expandafter{\@xnewline}%
21890 }%
21891 \edef\@xcentercr{%
21892     \unexpanded{\ClassInfo{\KOMAClassName}{%
21893         Workaround for not recommended usage of \string\\ or\MessageBreak
21894         \string\newline in caption text
21895     }%
21896     \hspace*{\linewidth}\hspace{1sp}%
21897 }%
21898     \unexpanded\expandafter{\@xcentercr}%
21899 }%
21900 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21901 \ifdim\@tempdima>\cap@width
21902     \aftergroup\scr@makemultilinecaption
21903 \else
21904     \aftergroup\scr@makesinglelinecaption
21905 \fi
21906 \else
21907     \aftergroup\scr@makemultilinecaption
21908 \fi
21909 \endgroup
21910 {#1}{#2}{#3}%
21911 }
21912 \renewcommand{\scr@makesinglelinecaption}[3]{%
21913     {%
21914         \usefontofkomafont{caption}{%
21915             \hb@xt@\hsize{%
21916                 \cap@left
21917                 \if@RTL
21918                     \beginR
21919                 \fi
21920                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21921                 \if@RTL
21922                     \endR
21923                 \fi
21924                 \cap@right
21925             }\par\kern\dp\strutbox%
21926         }%
21927     }\kern-\dp\strutbox
21928 }
21929 \renewcommand{\@makecaption}[2]{%
21930     \if@captionabove
21931         \vskip\belowcaptionskip
21932     \else
21933         \vskip\abovecaptionskip
21934     \fi
21935     \@makecaption\@firstofone{#1}{#2}%
21936     \if@captionabove

```



```

21937     \vskip\abovecaptionskip
21938   \else
21939     \vskip\belowcaptionskip
21940   \fi
21941 }
21942
21943 \renewcommand{\scr@makesinglelinecaption}[3]{%
21944   {\usekomafont{caption}{\strut\ignorespaces
21945     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21946     \ignorespaces #3\unskip}}%
21947 }
21948
21949 \renewcommand{\scr@makemultilinecaption}[3]{%
21950   {%
21951     \usefontofkomafont{caption}{%
21952       \hb@xt@\hsize{%
21953         \cap@left
21954         \vbox{\hsize\cap@width\linewidth\hsize
21955           \scr@ifundefinedorrelax{@capttype}{%
21956             \ClassWarning{\KOMAClassName}{%
21957               `string\caption' outside float.\MessageBreak
21958               Seems you are using `string\caption' outside a
21959               float.\MessageBreak
21960               Maybe you are using a package that uses
21961               `string@makecaption'\MessageBreak
21962               without setting `string\@capttype' before.\MessageBreak
21963               Because I cannot detect the caption type, I'm using\MessageBreak
21964               the empty one.%
21965             }}%
21966             \let\@capttype\@empty
21967           }}%
21968           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21969             \@nameuse{ragged\@capttype caption}}%
21970           }%
21971           \ifdofullc@p
21972             \@hangfrom{%
21973               \strut
21974               \scr@smashdp{%
21975                 #1{%
21976                   \usekomafont{caption}{%
21977                     \usekomafont{captionlabel}{#2\captionformat}}%
21978                 }%
21979               }%
21980             }%
21981           }%
21982           {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21983         \else
21984           \ifdim\cap@indent<\z@
21985             \strut
21986             #1{%
21987               {\usekomafont{caption}{%
21988                 \usekomafont{captionlabel}{#2\captionformat}}%
21989             }%
21990           }\par}%

```



```

21991         \noindent{\usekomafont{caption}{%
21992             \hspace*{-\cap@indent}#3\scr@endstrut
21993         }}\par}%
21994     \else
21995         \if@capbreak
21996             \strut
21997             #1{%
21998                 {\usekomafont{caption}{%
21999                     \usekomafont{captionlabel}{#2\captionformat}%
22000                 }%
22001             }\par}%
22002         \noindent\@hangfrom{\hspace*{\cap@indent}}%
22003         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22004     \else
22005         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22006         {%
22007             \hspace{-\cap@indent}%
22008             \scr@smashdp{%
22009                 #1{\usekomafont{caption}{%
22010                     \usekomafont{captionlabel}{#2\captionformat}%
22011                 }%
22012             }%
22013         }%
22014         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22015     }%
22016     \fi
22017     \fi
22018     \fi
22019     }%
22020     \cap@right
22021 } \par \kern \dp \strutbox
22022 }%
22023 } \kern - \dp \strutbox
22024 }
22025
22026 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22027     \if@komalongtable
22028         \renewcommand{\LT@makecaption}[3]{%
22029             \noalign{%
22030                 \if@captionabove
22031                     \vskip\belowcaptionskip
22032                 \else
22033                     \vskip\abovecaptionskip
22034                 \fi
22035             }%
22036             \LT@mc\LT@cols c{%
22037                 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
22038                     \def\@capytype{table}%
22039                     \@makecaption{#1}{#2}{#3}%
22040                 }\endgraf
22041                 \if@captionabove
22042                     \vskip\abovecaptionskip
22043                 \else
22044                     \vskip\belowcaptionskip

```



```

22045         \fi
22046     }%
22047     \hss
22048 }%
22049 }%
22050 }%
22051 \renewcommand*{\scr@LT@array}{}%
22052 \let\scr@LT@array=\LT@array
22053 \renewcommand*{\LT@array}{%
22054     \let\scr@caption=\LT@caption
22055     \def\captionabove{\noalign{\global\@captionabovetrue}%
22056         \scr@caption}%
22057     \def\captionbelow{\noalign{\global\@captionabovefalse}%
22058         \scr@caption}%
22059     \if@tablecaptionabove
22060         \let\LT@caption=\captionabove
22061     \else
22062         \let\LT@caption=\captionbelow
22063     \fi
22064     \scr@LT@array
22065 }%
22066 \ClassInfo{\KOMAClassName}{%
22067     longtable captions redefined%
22068 }%
22069 \fi
22070 }
22071
22072 \CloneTOCEntryStyle{tocline}{part}
22073 \TOCEntryStyleStartInitCode{part}{%
22074     \expandafter\renewcommand%
22075     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22076     \expandafter\renewcommand%
22077     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22078     \expandafter\renewcommand%
22079     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22080         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22081     \expandafter\renewcommand\expandafter*%
22082     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22083 }
22084
22085 \CloneTOCEntryStyle{tocline}{section}
22086 \TOCEntryStyleStartInitCode{section}{%
22087     \expandafter\renewcommand%
22088     \csname scr@tso@#1@linefill\endcsname{%
22089         \if@sectionentrywithdots
22090             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22091         \else
22092             \hfill
22093         \fi
22094     }%
22095     \expandafter\renewcommand%
22096     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22097     \expandafter\renewcommand%
22098     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{

```



```

22099 \expandafter\renewcommand\expandafter*%
22100 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22101 }
22102
22103 \CloneTOCEntryStyle{tocline}{subsection}
22104 \TOCEntryStyleStartInitCode{subsection}{%
22105 \expandafter\renewcommand%
22106 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22107 \expandafter\renewcommand%
22108 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22109 {\normalfont\normalcolor ##1}}%
22110 }
22111
22112 \CloneTOCEntryStyle{subsection}{default}
22113
22114 \DeclareSectionCommand[%
22115 style=section,%
22116 level=1,%
22117 indent=\z@,%
22118 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22119 afterskip=2.3ex \@plus .2ex,%
22120 tocstyle=section,%
22121 tocindent=0pt,%
22122 tocnumwidth=1.5em%
22123 ]{section}
22124 \DeclareSectionCommand[%
22125 style=part,%
22126 level=\z@,%
22127 tocstyle=part,%
22128 toclevel=\m@ne,%
22129 tocindent=\z@,%
22130 tocnumwidth=2em%
22131 ]{part}
22132 \DeclareSectionCommand[%
22133 style=section,%
22134 level=2,%
22135 indent=\z@,%
22136 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
22137 afterskip=1.5ex \@plus .2ex,%
22138 tocstyle=subsection,%
22139 tocindent=1.5em,%
22140 tocnumwidth=2.3em%
22141 ]{subsection}
22142 \DeclareSectionCommand[%
22143 style=section,%
22144 level=3,%
22145 indent=\z@,%
22146 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
22147 afterskip=1.5ex \@plus .2ex,%
22148 tocstyle=subsection,%
22149 tocindent=3.8em,%
22150 tocnumwidth=3.2em%
22151 ]{subsubsection}
22152 \DeclareSectionCommand[%

```



```

22153 style=section,%
22154 level=4,%
22155 indent=\z@,%
22156 beforekip=3.25ex \@plus1ex \@minus.2ex,%
22157 afterskip=-1em,%
22158 tocstyle=subsection,%
22159 tocindentfollows=subsubsection,%
22160 tocindent=7.0em,%
22161 tocnumwidth=4.1em%
22162 ]{paragraph}
22163 \DeclareSectionCommand[%
22164 style=section,%
22165 level=5,%
22166 indent=\scr@parindent,%
22167 beforekip=3.25ex \@plus1ex \@minus.2ex,%
22168 afterskip=-1em,%
22169 tocstyle=subsection,%
22170 tocindent=10em,%
22171 tocnumwidth=5em%
22172 ]{subparagraph}

```

142 File scrbook-xetex-bidi.def

```

22173 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22174 \newcommand{\scr@saved@LTRfootnotetext}{}
22175 \newcommand{\scr@saved@RTLfootnotetext}{}
22176 \let\scr@saved@footnotetext\@footnotetext
22177 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22178 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22179 \renewcommand{\@footnotetext}[1]{%
22180 \scr@saved@footnotetext{#1}%
22181 \csname FN@mfb@prepare\endcsname
22182 }
22183 \renewcommand{\@LTRfootnotetext}[1]{%
22184 \scr@saved@LTRfootnotetext{#1}%
22185 \csname FN@mfb@prepare\endcsname
22186 }
22187 \renewcommand{\@RTLfootnotetext}[1]{%
22188 \scr@saved@RTLfootnotetext{#1}%
22189 \csname FN@mfb@prepare\endcsname
22190 }
22191 \renewcommand\deffootnote[4][]{%
22192 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22193 \long\def\@makefntext##1{%
22194 \ExecuteDoHook{footnote/text/begin}%
22195 \raggedfootnote
22196 \if@RTL
22197 \rightskip
22198 \else
22199 \leftskip
22200 \fi
22201 #2
22202 \l@addto@macro\@trivlist{%
22203 \ifnum\@listdepth=\@ne\advance

```




```

22204     \if@RTL
22205         \rightmargin #2\relax
22206     \else
22207         \leftmargin #2\relax
22208     \fi
22209 \fi
22210 }%
22211 \parindent #3\noindent
22212 \IfArgIsEmpty{#1}-{}{%
22213     \hskip \dimexpr #1-#2\relax
22214 }%
22215 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22216 \ExecuteDoHook{footnote/text/end}%
22217 }%
22218 \else
22219 \ClassInfo{\KOMAClassName}{%
22220     Using old \string\@makefnmark\space due to compatibility
22221     level\MessageBreak
22222     less than 3.22}%
22223 \long\def\@makefnmark##1{%
22224     \setlength{\@tempdimc}{#3}%
22225     \def\@tempa{#1}\ifx\@tempa\@empty
22226         \setpar{\@par
22227             \@tempdima = \hsize
22228             \addtolength{\@tempdima}{-#2}%
22229             \if@RTL
22230                 \parshape \@ne \z@ \@tempdima
22231             \else
22232                 \parshape \@ne #2 \@tempdima
22233             \fi
22234             }%
22235         \else
22236             \addtolength{\@tempdimc}{#2}%
22237             \addtolength{\@tempdimc}{-#1}%
22238             \setpar{\@par
22239                 \@tempdima = \hsize
22240                 \addtolength{\@tempdima}{-#1}%
22241                 \@tempdimb = \hsize
22242                 \addtolength{\@tempdimb}{-#2}%
22243                 \if@RTL
22244                     \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22245                 \else
22246                     \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22247                 \fi
22248             }%
22249         \fi
22250     \par
22251     \parindent\@tempdimc\noindent
22252     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22253 }%
22254 \fi
22255 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22256 }
22257 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}

```



```

22258 \renewcommand*\left@footnoterule{%
22259 \normalsize\ftn@rule@test@values
22260 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22261 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22262 {\usekomafont{footnoterule}{%
22263 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22264 \kern 2.6\p@}
22265 \renewcommand*\right@footnoterule{%
22266 \normalsize\ftn@rule@test@values
22267 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22268 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22269 {\usekomafont{footnoterule}{%
22270 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22271 \kern 2.6\p@}
22272 \renewcommand*\maketitle[1][1]{%
22273 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22274 \else
22275 \def\and{%
22276 \end{tabular}%
22277 \hskip 1em \@plus.17fil%
22278 \begin{tabular}[t]{c}%
22279 }%
22280 \fi
22281 \if@titlepage
22282 \begin{titlepage}
22283 \setcounter{page}{%
22284 #1%
22285 }%
22286 \if@titlepageiscoverpage
22287 \edef\tITLEPAGE@restore{%
22288 \noexpand\endgroup
22289 \noexpand\global\noexpand\@colht\the\@colht
22290 \noexpand\global\noexpand\@colroom\the\@colroom
22291 \noexpand\global\vsizethe\vsizethe
22292 \noexpand\global\noexpand\@titlepageiscoverpagefalse
22293 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22294 }%
22295 \begingroup
22296 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22297 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22298 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22299 \textwidth=\dimexpr
2300 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
2301 \textheight=\dimexpr
2302 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
2303 \headheight=0pt
2304 \headsep=0pt
2305 \footskip=\baselineskip
2306 \@colht=\textheight
2307 \@colroom=\textheight
2308 \vsizethe\vsizethe
2309 \columnwidth=\textwidth
2310 \hsizethe\columnwidth
2311 \linewidth=\hsizethe

```



```

22312 \else
22313 \let\titlepage@restore\relax
22314 \fi
22315 \let\footnotesize\small
22316 \let\right@footnoterule\relax
22317 \let\left@footnoterule\relax
22318 \let\textwidth@footnoterule\relax
22319 \let\footnote\thanks
22320 \let\LTRfootnote\LTRthanks
22321 \let\RTLfootnote\RTLthanks
22322 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22323 \let\@oldmakefnmark\@makefnmark
22324 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
22325 \ifx\@extratitle\@empty
22326 \ifx\@frontispiece\@empty
22327 \else
22328 \if@twoside\mbox{}\next@tpage\fi
22329 \noindent\@frontispiece\next@tdpage
22330 \fi
22331 \else
22332 \noindent\@extratitle
22333 \ifx\@frontispiece\@empty
22334 \else
22335 \next@tpage
22336 \noindent\@frontispiece
22337 \fi
22338 \next@tdpage
22339 \fi
22340 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22341 \ifx\@titlehead\@empty \else
22342 \begin{minipage}[t]{\textwidth}%
22343 \usekomafont{titlehead}{\@titlehead\par}%
22344 \end{minipage}\par
22345 \fi
22346 \null\vfill
22347 \begin{center}
22348 \ifx\@subject\@empty \else
22349 {\usekomafont{subject}{\@subject\par}}%
22350 \vskip 3em
22351 \fi
22352 {\usekomafont{title}{\huge \@title\par}}%
22353 \vskip 1em
22354 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22355 \vskip 2em
22356 {%
22357 \usekomafont{author}{%
22358 \lineskip 0.75em
22359 \begin{tabular}[t]{c}
22360 \@author
22361 \end{tabular}\par
22362 }%
22363 }%
22364 \vskip 1.5em
22365 {\usekomafont{date}{\@date \par}}%

```



```

22366     \vskip \z@ \@plus3fill
22367     {\usekomafont{publishers}{\@publishers \par}}%
22368     \vskip 3em
22369 \end{center}\par
22370 \@thanks\global\let\@thanks\@empty
22371 \vfill\null
22372 \if@twoside
22373     \@tempwatruer
22374     \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
22375     \else
22376         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22377             \@tempwafalse
22378         \fi\fi
22379     \fi
22380     \if@tempswa
22381         \next@tpage
22382         \begin{minipage}[t]{\textwidth}
22383             \@uppertitleback
22384         \end{minipage}\par
22385         \vfill
22386         \begin{minipage}[b]{\textwidth}
22387             \@lowertitleback
22388         \end{minipage}\par
22389         \@thanks\global\let\@thanks\@empty
22390     \fi
22391 \else
22392     \ifx\@uppertitleback\@empty\else
22393         \ClassWarning{\KOMAClassName}{%
22394             non empty \string\uppertitleback\space ignored
22395             by \string\maketitle\MessageBreak
22396             in `twoside=false' mode%
22397         }%
22398     \fi
22399     \ifx\@lowertitleback\@empty\else
22400         \ClassWarning{\KOMAClassName}{%
22401             non empty \string\lowertitleback\space ignored
22402             by \string\maketitle\MessageBreak
22403             in `twoside=false' mode%
22404         }%
22405     \fi
22406 \fi
22407 \ifx\@dedication\@empty
22408 \else
22409     \next@tdpage\null\vfill
22410     {\centering\usekomafont{dedication}{\@dedication \par}}%
22411     \vskip \z@ \@plus3fill
22412     \@thanks\global\let\@thanks\@empty
22413     \cleardoubleemptypage
22414 \fi
22415 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22416 \end{titlepage}
22417 \else
22418     \par
22419     \@tempcnta=%

```



```

22420 #1%
22421 \relax\ifnum \@tempcnta=1\else
22422 \ClassWarning{\KOMAClassName}{%
22423   Optional argument of \string\maketitle\space ignored\MessageBreak
22424   in `titlepage=false' mode%
22425 }%
22426 \fi
22427 \ifx \@uppertitleback \@empty\else
22428 \ClassWarning{\KOMAClassName}{%
22429   non empty \string\uppertitleback\space ignored
22430   by \string\maketitle\MessageBreak
22431   in `titlepage=false' mode%
22432 }%
22433 \fi
22434 \ifx \@lowertitleback \@empty\else
22435 \ClassWarning{\KOMAClassName}{%
22436   non empty \string\lowertitleback\space ignored
22437   by \string\maketitle\MessageBreak
22438   in `titlepage=false' mode%
22439 }%
22440 \fi
22441 \beginngroup
22442 \let\titlepage@restore\relax
22443 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22444 \let\@oldmakefnmark\@makefnmark
22445 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
22446 \next@tdpage
22447 \if@twocolumn
22448 \ifnum \col@number=\@ne
22449 \ifx \@extratitle \@empty
22450 \ifx \@frontispiece \@empty\else\if@twoside\mbox{}\fi\fi
22451 \else
22452 \makeextratitle
22453 \fi
22454 \ifx \@frontispiece \@empty
22455 \ifx \@extratitle \@empty\else\next@tdpage\fi
22456 \else
22457 \next@tpage
22458 \makefrontispiece
22459 \next@tdpage
22460 \fi
22461 \maketitle
22462 \else
22463 \ifx \@extratitle \@empty
22464 \ifx \@frontispiece \@empty\else\if@twoside\mbox{}\fi\fi
22465 \else
22466 \twocolumn[\makeextratitle]%
22467 \fi
22468 \ifx \@frontispiece \@empty
22469 \ifx \@extratitle \@empty\else\next@tdpage\fi
22470 \else
22471 \next@tpage
22472 \twocolumn[\makefrontispiece]%
22473 \next@tdpage

```



```

22474         \fi
22475         \twocolumn[\@maketitle]%
22476     \fi
22477 \else
22478     \ifx\@extratitle\@empty
22479         \ifx\@frontispiece\@empty\else \mbox{}\fi
22480     \else
22481         \@makeextratitle
22482     \fi
22483     \ifx\@frontispiece\@empty
22484         \ifx\@extratitle\@empty\else\next@tdpage\fi
22485     \else
22486         \next@tpage
22487         \@makefrontispiece
22488         \next@tdpage
22489     \fi
22490     \@maketitle
22491 \fi
22492     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22493     \@thanks\global\let\@thanks\@empty
22494 \endgroup
22495 \fi
22496 \setcounter{footnote}{0}%
22497 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22498     \let\thanks\relax
22499     \let\LTRthanks\relax
22500     \let\RTLthanks\relax
22501     \let\maketitle\relax
22502     \let\@maketitle\relax
22503     \global\let\@thanks\@empty
22504     \global\let\@author\@empty
22505     \global\let\@date\@empty
22506     \global\let\@title\@empty
22507     \global\let\@subtitle\@empty
22508     \global\let\@extratitle\@empty
22509     \global\let\@frontispiece\@empty
22510     \global\let\@titlehead\@empty
22511     \global\let\@subject\@empty
22512     \global\let\@publishers\@empty
22513     \global\let\@uppertitleback\@empty
22514     \global\let\@lowertitleback\@empty
22515     \global\let\@dedication\@empty
22516     \global\let\author\relax
22517     \global\let\title\relax
22518     \global\let\extratitle\relax
22519     \global\let\titlehead\relax
22520     \global\let\subject\relax
22521     \global\let\publishers\relax
22522     \global\let\uppertitleback\relax
22523     \global\let\lowertitleback\relax
22524     \global\let\dedication\relax
22525     \global\let\date\relax
22526 \fi
22527 \global\let\and\relax

```



```

22528 }%
22529 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
22530 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22531 \renewcommand*\thesection{%
22532   \expandafter\ifnum\scr@v@is>{2.97d}%
22533     \if@mainmatter\thechapter\@SepMark\fi
22534   \else
22535     \thechapter\@SepMark%
22536   \fi
22537   \@arabic\c@section
22538 }
22539 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
22540 \renewcommand*\thesubsubsection{%
22541   \thesubsection\@SepMark\@arabic\c@subsubsection
22542 }
22543 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22544 \renewcommand*\thesubparagraph{%
22545   \theparagraph\@SepMark\@arabic\c@subparagraph
22546 }
22547 \expandafter\ifnum\scr@v@is@le{2.97d}%
22548   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22549 \fi
22550 \expandafter\ifnum\scr@v@is@le{2.97d}%
22551   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22552 \fi
22553 \renewcommand*\theequation{%
22554   \expandafter\ifnum\scr@v@is>{2.97d}%
22555     \if@mainmatter\thechapter\@SepMark\fi
22556   \else
22557     \thechapter\@SepMark%
22558   \fi
22559   \@arabic\c@equation
22560 }
22561 \renewenvironment{thebibliography}[1]{%
22562   \if@bib@break@
22563     \bib@beginhook
22564   \else
22565     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22566       \setchapterpreamble{\bibpreamble}%
22567     \fi\fi
22568     \bib@heading
22569     \bib@beginhook
22570     \bib@before@hook
22571   \fi
22572   \renewcommand{\BreakBibliography}[1]{%
22573     \@bib@break
22574     \end{thebibliography}%
22575     \begingroup ##1\endgroup
22576     \begin{thebibliography}{#1}
22577   }%
22578   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
22579   \bidi@thebibliography@font@hook%
22580   \list{%
22581     \@biblabel{\@arabic\c@enumiv}%

```



```

22582 }{%
22583   \settowidth\labelwidth{\@biblabel{#1}}%
22584   \leftmargin\labelwidth
22585   \advance\leftmargin\labelsep
22586   \@openbib@code
22587   \if@bib@break@
22588     \edef\@tempa{%
22589       \noexpand\usecounter{enumiv}}%
22590     \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22591     }\@tempa
22592   \no@bib@break
22593   \else
22594     \usecounter{enumiv}%
22595   \fi
22596   \let\p@enumiv\@empty
22597   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22598 }%
22599 \sloppy\clubpenalty4000 \widowpenalty4000
22600 \sfcode`.=\@m
22601 }{%
22602   \if@bib@break@
22603     \def\@noitemerr{%
22604       \@latex@warning{%
22605         \string\BreakBibliography\space at begin of `thebibliography'
22606         environment\MessageBreak
22607         or following \string\BreakBibliography}}%
22608     }%
22609   \else
22610     \def\@noitemerr{%
22611       \@latex@warning{%
22612         Empty `thebibliography' environment or
22613         \string\BreakBibliography\MessageBreak
22614         before end of `thebibliography' environment}}%
22615     }%
22616   \fi
22617   \endlist
22618   \if@bib@break@
22619   \else
22620     \bib@after@hook
22621     \let\bib@before@hook\@empty
22622     \let\bib@after@hook\@empty
22623   \fi
22624   \bib@endhook
22625 }
22626 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22627 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22628 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22629 \renewcommand\marginline[1]{%
22630   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22631 }
22632 \renewcommand{\@@makecaption}[3]{%
22633   \cap@margin
22634   \begingroup
22635     \ifonelinecaptions

```




```

22636 \def\stepcounter##1{\advance\value{##1}\@ne}%
22637 \let\refstepcounter\stepcounter
22638 \let\label@gobble
22639 \let\@footnotetext=@gobble
22640 \let\@LTRfootnotetext=@gobble
22641 \let\@RTLfootnotetext=@gobble
22642 \let\hypertarget@gobbletwo
22643 \edef\xnewline{%
22644   \unexpanded{\ClassInfo{\KOMAClassName}{%
22645     Workaround for not recommended usage of \string\\ or\MessageBreak
22646     \string\newline in caption text
22647   }}%
22648   \hspace*{\linewidth}\hspace{1sp}%
22649 }%
22650 \unexpanded\expandafter{\@xnewline}%
22651 }%
22652 \edef@xcentercr{%
22653   \unexpanded{\ClassInfo{\KOMAClassName}{%
22654     Workaround for not recommended usage of \string\\ or\MessageBreak
22655     \string\newline in caption text
22656   }}%
22657   \hspace*{\linewidth}\hspace{1sp}%
22658 }%
22659 \unexpanded\expandafter{\@xcentercr}%
22660 }%
22661 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22662 \ifdim\@tempdima>\cap@width
22663   \aftergroup\scr@makemultilinecaption
22664 \else
22665   \aftergroup\scr@makesinglelinecaption
22666 \fi
22667 \else
22668   \aftergroup\scr@makemultilinecaption
22669 \fi
22670 \endgroup
22671 {#1}{#2}{#3}%
22672 }
22673 \renewcommand{\scr@makesinglelinecaption}[3]{%
22674   {%
22675     \usefontofkomafont{caption}{%
22676       \hb@xt@\hsize{%
22677         \cap@left
22678         \if@RTL
22679           \beginR
22680           \fi
22681         \scr@makesinglelinecaption{#1}{#2}{#3}%
22682         \if@RTL
22683           \endR
22684         \fi
22685         \cap@right
22686       }\par\kern\dp\strutbox%
22687     }%
22688   }\kern-\dp\strutbox
22689 }

```



```

22690 \renewcommand{\@makecaption}[2]{%
22691   \if@captionabove
22692     \vskip\belowcaptionskip
22693   \else
22694     \vskip\abovecaptionskip
22695   \fi
22696   \@makecaption\@firstofone{#1}{#2}%
22697   \if@captionabove
22698     \vskip\abovecaptionskip
22699   \else
22700     \vskip\belowcaptionskip
22701   \fi
22702 }
22703
22704 \renewcommand{\scr@makesinglelinecaption}[3]{%
22705   {\usekomafont{caption}{\strut\ignorespaces
22706     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22707     \ignorespaces #3\unskip}}%
22708 }
22709
22710 \renewcommand{\scr@makemultilinecaption}[3]{%
22711   {%
22712     \usefontofkomafont{caption}{%
22713       \hb@xt@\hsize{%
22714         \cap@left
22715         \vbox{\hsize\cap@width\linewidth\hsize
22716           \scr@ifundefinedorrelax{@captive}{%
22717             \ClassWarning{\KOMAClassName}{%
22718               `string\caption' outside float.\MessageBreak
22719               Seems you are using `string\caption' outside a
22720               float.\MessageBreak
22721               Maybe you are using a package that uses
22722               `string\@makecaption'\MessageBreak
22723               without setting `string@captive' before.\MessageBreak
22724               Because I cannot detect the caption type, I'm using\MessageBreak
22725               the empty one.%
22726             }%
22727             \let@captive@empty
22728           }{}%
22729           \scr@ifundefinedorrelax{ragged@captive caption}{\raggedcaption}{%
22730             \@nameuse{ragged@captive caption}%
22731           }%
22732           \ifdofullc@p
22733             \@hangfrom{%
22734               \strut
22735               \scr@smashdp{%
22736                 #1{%
22737                   \usekomafont{caption}{%
22738                     \usekomafont{captionlabel}{#2\captionformat}%
22739                   }%
22740                 }%
22741               }%
22742             }%
22743             {\usekomafont{caption}{#3\scr@endstrut}}\par}%

```



```

22744     \else
22745     \ifdim\cap@indent<\z@
22746     \strut
22747     #1{%
22748     {\usekomafont{caption}{%
22749     \usekomafont{captionlabel}{#2\captionformat}%
22750     }%
22751     }\par}%
22752     \noindent{\usekomafont{caption}{%
22753     \hspace*{-\cap@indent}#3\scr@endstrut
22754     }}\par}%
22755     \else
22756     \ifcapbreak
22757     \strut
22758     #1{%
22759     {\usekomafont{caption}{%
22760     \usekomafont{captionlabel}{#2\captionformat}%
22761     }
22762     }\par}%
22763     \noindent\@hangfrom{\hspace*{\cap@indent}}%
22764     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22765     \else
22766     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22767     {%
22768     \hspace{-\cap@indent}%
22769     \scr@smashdp{%
22770     #1{\usekomafont{caption}{%
22771     \usekomafont{captionlabel}{#2\captionformat}%
22772     }%
22773     }%
22774     }%
22775     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22776     }%
22777     \fi
22778     \fi
22779     \fi
22780     }%
22781     \cap@right
22782     }\par\kern\dp\strutbox
22783     }%
22784     }\kern-\dp\strutbox
22785     }
22786
22787
22788 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22789 \if@komalongtable
22790 \renewcommand{\LT@makecaption}[3]{%
22791 \noalign{%
22792 \if@captionabove
22793 \vskip\belowcaptionskip
22794 \else
22795 \vskip\abovecaptionskip
22796 \fi
22797 }%

```



```

22798 \LT@mc\LT@cols c{%
22799 \hbox to\z@\hss\parbox[t]\linewidth{%
22800 \def\@capttype{table}%
22801 \@@makecaption{#1}{#2}{#3}%
22802 \endgraf
22803 \if@captionabove
22804 \vskip\abovecaptionskip
22805 \else
22806 \vskip\belowcaptionskip
22807 \fi
22808 }%
22809 \hss
22810 }%
22811 }%
22812 }%
22813 \renewcommand*\scr@LT@array}{%
22814 \let\scr@LT@array=\LT@array
22815 \renewcommand*\LT@array}{%
22816 \let\scr@caption=\LT@caption
22817 \def\captionabove{\noalign{\global\@captionabovetrue}%
22818 \scr@caption}%
22819 \def\captionbelow{\noalign{\global\@captionabovefalse}%
22820 \scr@caption}%
22821 \if@tablecaptionabove
22822 \let\LT@caption=\captionabove
22823 \else
22824 \let\LT@caption=\captionbelow
22825 \fi
22826 \scr@LT@array
22827 }%
22828 \ClassInfo{\KOMAClassName}{%
22829 longtable captions redefined%
22830 }%
22831 \fi
22832 }
22833 }
22834 \CloneTOCEntryStyle{tocline}{part}
22835 \TOCEntryStyleStartInitCode{part}{%
22836 \expandafter\renewcommand%
22837 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22838 \expandafter\renewcommand%
22839 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22840 \expandafter\renewcommand%
22841 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22842 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}}%
22843 \expandafter\renewcommand\expandafter*%
22844 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22845 }
22846 }
22847 \CloneTOCEntryStyle{tocline}{chapter}
22848 \TOCEntryStyleStartInitCode{chapter}{%
22849 \expandafter\renewcommand%
22850 \csname scr@tso@#1@linefill\endcsname{%
22851 \if@chapterentrywithdots

```



```

22852     {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22853     \else
22854         \hfill
22855     \fi
22856 }%
22857 \expandafter\renewcommand%
22858 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
22859 \expandafter\renewcommand%
22860 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22861     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}}%
22862 \expandafter\renewcommand\expandafter*%
22863 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22864 }
22865
22866 \CloneTOCEntryStyle{tocline}{section}
22867 \TOCEntryStyleStartInitCode{section}{%
22868     \expandafter\renewcommand%
22869     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22870     \expandafter\renewcommand%
22871     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22872         {\normalfont\normalcolor ##1}}}%
22873 }
22874
22875 \CloneTOCEntryStyle{section}{default}
22876
22877 \DeclareSectionCommand[%
22878     style=chapter,%
22879     level=\z@,%
22880     pagestyle=plain,%
22881     tocstyle=chapter,%
22882     tocindent=\z@,%
22883     tocnumwidth=1.5em%
22884 ]{chapter}
22885 \DeclareSectionCommand[%
22886     style=section,%
22887     level=1,%
22888     indent=\z@,%
22889     beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22890     afterskip=2.3ex \@plus.2ex,%
22891     tocstyle=section,%
22892     tocindentfollows=chapter,%
22893     tocindent=1.5em,%
22894     tocnumwidth=2.3em%
22895 ]{section}
22896 \DeclareSectionCommand[%
22897     style=part,%
22898     level=\m@ne,%
22899     pagestyle=plain,%
22900     tocstyle=part,%
22901     toplevel=\m@ne,%
22902     tocindent=\z@,%
22903     tocnumwidth=2em%
22904 ]{part}
22905 \DeclareSectionCommand[%

```



```

22906 style=section,%
22907 level=2,%
22908 indent=\z@,%
22909 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22910 afterskip=1.5ex \@plus .2ex,%
22911 tocstyle=section,%
22912 tocindent=3.8em,%
22913 tocnumwidth=3.2em%
22914 ]{subsection}
22915 \DeclareSectionCommand[%
22916 style=section,%
22917 level=3,%
22918 indent=\z@,%
22919 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22920 afterskip=1.5ex \@plus .2ex,%
22921 tocstyle=section,%
22922 tocindent=7.0em,%
22923 tocnumwidth=4.1em%
22924 ]{subsubsection}
22925 \DeclareSectionCommand[%
22926 style=section,%
22927 level=4,%
22928 indent=\z@,%
22929 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22930 afterskip=-1em,%
22931 tocindentfollows=subsubsection,%
22932 tocstyle=section,%
22933 tocindent=10em,%
22934 tocnumwidth=5em%
22935 ]{paragraph}
22936 \DeclareSectionCommand[%
22937 style=section,%
22938 level=5,%
22939 indent=\scr@parindent,%
22940 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22941 afterskip=-1em,%
22942 tocstyle=section,%
22943 tocindent=12em,%
22944 tocnumwidth=6em%
22945 ]{subparagraph}

```

143 File `scrreprt-xetex-bidi.def`

```

22946 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22947 \newcommand{\scr@saved@LTRfootnotetext}{}
22948 \newcommand{\scr@saved@RTLfootnotetext}{}
22949 \let\scr@saved@footnotetext\@footnotetext
22950 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22951 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22952 \renewcommand{\@footnotetext}[1]{%
22953   \scr@saved@footnotetext{#1}%
22954   \csname FN@mf@prepare\endcsname
22955 }
22956 \renewcommand{\@LTRfootnotetext}[1]{%

```



```

22957 \scr@saved@LTRfootnotetext{#1}%
22958 \csname FN@mf@prepare\endcsname
22959 }
22960 \renewcommand{\@RTLfootnotetext}[1]{%
22961 \scr@saved@RTLfootnotetext{#1}%
22962 \csname FN@mf@prepare\endcsname
22963 }
22964 \renewcommand\deffootnote[4] [] {%
22965 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22966 \long\def\@makefntext##1{%
22967 \ExecuteDoHook{footnote/text/begin}%
22968 \raggedfootnote
22969 \if@RTL
22970 \rightskip
22971 \else
22972 \leftskip
22973 \fi
22974 #2
22975 \l@addto@macro\@trivlist{%
22976 \ifnum\@listdepth=\@ne
22977 \if@RTL
22978 \advance\rightmargin #2\relax
22979 \else
22980 \advance\leftmargin #2\relax
22981 \fi
22982 \fi
22983 }%
22984 \parindent #3\noindent
22985 \IfArgIsEmpty{#1}{-}{%
22986 \hskip \dimexpr #1-#2\relax
22987 }%
22988 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22989 \ExecuteDoHook{footnote/text/end}%
22990 }%
22991 \else
22992 \ClassInfo{\KOMAClassName}{%
22993 Using old \string\@makefntext\space due to compatibility
22994 level\MessageBreak
22995 less than 3.22}%
22996 \long\def\@makefntext##1{%
22997 \setlength{\@tempdimc}{#3}%
22998 \def\@tempa{#1}\ifx\@tempa\@empty
22999 \setpar{\@par
23000 \@tempdima = \hspace
23001 \addtolength{\@tempdima}{-#2}%
23002 \if@RTL
23003 \parshape \@ne \z@ \@tempdima
23004 \else
23005 \parshape \@ne #2 \@tempdima
23006 \fi
23007 }%
23008 \else
23009 \addtolength{\@tempdimc}{#2}%
23010 \addtolength{\@tempdimc}{-#1}%

```



```

23011     \setpar{\@par
23012         \@tempdima = \hsize
23013         \addtolength{\@tempdima}{-#1}%
23014         \@tempdimb = \hsize
23015         \addtolength{\@tempdimb}{-#2}%
23016         \if@RTL
23017             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
23018         \else
23019             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
23020         \fi
23021     }%
23022 \fi
23023 \par
23024 \parindent\@tempdimc\noindent
23025 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
23026 }%
23027 \fi
23028 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
23029 }
23030 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
23031 \renewcommand*\left@footnoterule{%
23032     \normalsize\ftn@rule@test@values
23033     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23034     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23035     {\usekomafont{footnoterule}{%
23036         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
23037     \kern 2.6\p@}
23038 \renewcommand*\right@footnoterule{%
23039     \normalsize\ftn@rule@test@values
23040     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23041     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23042     {\usekomafont{footnoterule}{%
23043         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
23044         \kern 2.6\p@}
23045 \renewcommand*\maketitle[1][1]{%
23046     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23047     \else
23048         \def\and{%
23049             \end{tabular}%
23050             \hskip 1em \@plus.17fil%
23051             \begin{tabular}[t]{c}%
23052         }%
23053     \fi
23054     \if@titlepage
23055         \begin{titlepage}
23056             \setcounter{page}{%
23057                 #1%
23058             }%
23059         \if@titlepageiscoverpage
23060             \edef\titlepage@restore{%
23061                 \noexpand\endgroup
23062                 \noexpand\global\noexpand\@colht\the\@colht
23063                 \noexpand\global\noexpand\@colroom\the\@colroom
23064                 \noexpand\global\vsizethe\vsizethe

```




```

23065     \noexpand\global\noexpand\@titlepageiscoverpagefalse
23066     \noexpand\let\noexpand\titlepage@restore\noexpand\relax
23067   }%
23068   \begingroup
23069   \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23070   \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23071   \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23072   \textwidth=\dimexpr
23073   \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23074   \textheight=\dimexpr
23075   \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23076   \headheight=0pt
23077   \headsep=0pt
23078   \footskip=\baselineskip
23079   \@colht=\textheight
23080   \@colroom=\textheight
23081   \vsize=\textheight
23082   \columnwidth=\textwidth
23083   \hsize=\columnwidth
23084   \linewidth=\hsize
23085   \else
23086     \let\titlepage@restore\relax
23087   \fi
23088   \let\footnotesize\small
23089   \let\right@footnoterule\relax
23090   \let\left@footnoterule\relax
23091   \let\textwidth@footnoterule\relax
23092   \let\footnote\thanks
23093   \let\LTRfootnote\LTRthanks
23094   \let\RTLfootnote\RTLthanks
23095   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23096   \let\@oldmakefnmark\@makefnmark
23097   \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23098   \ifx\@extratitle\@empty
23099     \ifx\@frontispiece\@empty
23100     \else
23101       \if@twoside\mbox{}\next@tpage\fi
23102       \noindent\@frontispiece\next@tdpage
23103     \fi
23104   \else
23105     \noindent\@extratitle
23106     \ifx\@frontispiece\@empty
23107     \else
23108       \next@tpage
23109       \noindent\@frontispiece
23110     \fi
23111     \next@tdpage
23112   \fi
23113   \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
23114   \ifx\@titlehead\@empty \else
23115     \begin{minipage}[t]{\textwidth}%
23116       \usekomafont{titlehead}{\@titlehead\par}%
23117     \end{minipage}\par
23118   \fi

```



```

23119 \null\vfill
23120 \begin{center}
23121 \ifx\@subject\@empty \else
23122   {\usekomafont{subject}{\@subject\par}}%
23123   \vskip 3em
23124 \fi
23125 {\usekomafont{title}{\huge \@title\par}}%
23126 \vskip 1em
23127 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23128 \vskip 2em
23129 {%
23130   \usekomafont{author}{%
23131     \lineskip 0.75em
23132     \begin{tabular}[t]{c}
23133       \@author
23134     \end{tabular}\par
23135   }%
23136 }%
23137 \vskip 1.5em
23138 {\usekomafont{date}{\@date \par}}%
23139 \vskip \z@ \@plus3fill
23140 {\usekomafont{publishers}{\@publishers \par}}%
23141 \vskip 3em
23142 \end{center}\par
23143 \@thanks\global\let\@thanks\@empty
23144 \vfill\null
23145 \if@twoside
23146   \@tempwatrue
23147   \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23148   \else
23149     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23150       \@tempwafalse
23151     \fi\fi
23152   \fi
23153   \if@tempswa
23154     \next@tpage
23155     \begin{minipage}[t]{\textwidth}
23156       \@uppertitleback
23157     \end{minipage}\par
23158     \vfill
23159     \begin{minipage}[b]{\textwidth}
23160       \@lowertitleback
23161     \end{minipage}\par
23162     \@thanks\global\let\@thanks\@empty
23163   \fi
23164 \else
23165   \ifx\@uppertitleback\@empty\else
23166     \ClassWarning{\KOMAClassName}{%
23167       non empty \string\uppertitleback\space ignored
23168       by \string\maketitle\MessageBreak
23169       in `twoside=false' mode%
23170     }%
23171   \fi
23172   \ifx\@lowertitleback\@empty\else

```



```

23173         \ClassWarning{\KOMAClassName}{%
23174             non empty \string\lowertitleback\space ignored
23175             by \string\maketitle\MessageBreak
23176             in `twoside=false' mode%
23177         }%
23178     \fi
23179 \fi
23180 \ifx\@dedication\@empty
23181 \else
23182     \next@tdpage\null\vfill
23183     {\centering\usekomafont{dedication}{\@dedication \par}}%
23184     \vskip \z@ \@plus3fill
23185     \@thanks\global\let\@thanks\@empty
23186     \cleardoubleemptypage
23187 \fi
23188 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23189 \end{titlepage}
23190 \else
23191     \par
23192     \@tempcnta=%
23193     #1%
23194     \relax\ifnum\@tempcnta=1\else
23195         \ClassWarning{\KOMAClassName}{%
23196             Optional argument of \string\maketitle\space ignored\MessageBreak
23197             in `titlepage=false' mode%
23198         }%
23199     \fi
23200 \ifx\@uppertitleback\@empty\else
23201     \ClassWarning{\KOMAClassName}{%
23202         non empty \string\uppertitleback\space ignored
23203         by \string\maketitle\MessageBreak
23204         in `titlepage=false' mode%
23205     }%
23206 \fi
23207 \ifx\@lowertitleback\@empty\else
23208     \ClassWarning{\KOMAClassName}{%
23209         non empty \string\lowertitleback\space ignored
23210         by \string\maketitle\MessageBreak
23211         in `titlepage=false' mode%
23212     }%
23213 \fi
23214 \begingroup
23215     \let\titlepage@restore\relax
23216     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23217     \let\@oldmakefnmark\@makefnmark
23218     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23219     \next@tdpage
23220     \if@twocolumn
23221         \ifnum \col@number=\@one
23222             \ifx\@extratitle\@empty
23223                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23224             \else
23225                 \@makeextratitle
23226             \fi

```



```

23227         \ifx\@frontispiece\@empty
23228             \ifx\@extratitle\@empty\else\next@tdpage\fi
23229         \else
23230             \next@tpage
23231             \@makefrontispiece
23232             \next@tdpage
23233         \fi
23234         \@maketitle
23235     \else
23236         \ifx\@extratitle\@empty
23237             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23238         \else
23239             \twocolumn[\@makeextratitle]%
23240         \fi
23241         \ifx\@frontispiece\@empty
23242             \ifx\@extratitle\@empty\else\next@tdpage\fi
23243         \else
23244             \next@tpage
23245             \twocolumn[\@makefrontispiece]%
23246             \next@tdpage
23247         \fi
23248         \twocolumn[\@maketitle]%
23249     \fi
23250 \else
23251     \ifx\@extratitle\@empty
23252         \ifx\@frontispiece\@empty\else \mbox{}\fi
23253     \else
23254         \@makeextratitle
23255     \fi
23256     \ifx\@frontispiece\@empty
23257         \ifx\@extratitle\@empty\else\next@tdpage\fi
23258     \else
23259         \next@tpage
23260         \@makefrontispiece
23261         \next@tdpage
23262     \fi
23263     \@maketitle
23264 \fi
23265 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23266 \@thanks\global\let\@thanks\@empty
23267 \endgroup
23268 \fi
23269 \setcounter{footnote}{0}%
23270 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23271     \let\thanks\relax
23272     \let\LTRthanks\relax
23273     \let\RTLthanks\relax
23274     \let\maketitle\relax
23275     \let\@maketitle\relax
23276     \global\let\@thanks\@empty
23277     \global\let\@author\@empty
23278     \global\let\@date\@empty
23279     \global\let\@title\@empty
23280     \global\let\@subtitle\@empty

```



```

23281 \global\let\@extratitle\@empty
23282 \global\let\@frontispiece\@empty
23283 \global\let\@titlehead\@empty
23284 \global\let\@subject\@empty
23285 \global\let\@publishers\@empty
23286 \global\let\@uppertitleback\@empty
23287 \global\let\@lowertitleback\@empty
23288 \global\let\@dedication\@empty
23289 \global\let\author\relax
23290 \global\let\title\relax
23291 \global\let\extratitle\relax
23292 \global\let\titlehead\relax
23293 \global\let\subject\relax
23294 \global\let\publishers\relax
23295 \global\let\uppertitleback\relax
23296 \global\let\lowertitleback\relax
23297 \global\let\dedication\relax
23298 \global\let\date\relax
23299 \fi
23300 \global\let\and\relax
23301 }%
23302 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23303 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23304 \renewcommand*\thesection{%
23305 \thechapter\@SepMark%
23306 \@arabic\c@section
23307 }
23308 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
23309 \renewcommand*{\thesubsubsection}{%
23310 \thesubsection\@SepMark\@arabic\c@subsubsection
23311 }
23312 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23313 \renewcommand*{\thesubparagraph}{%
23314 \theparagraph\@SepMark\@arabic\c@subparagraph
23315 }
23316 \expandafter\ifnum\scr@v@is@le{2.97d}%
23317 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23318 \fi
23319 \expandafter\ifnum\scr@v@is@le{2.97d}%
23320 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23321 \fi
23322 \renewcommand*\theequation{%
23323 \thechapter\@SepMark%
23324 \@arabic\c@equation
23325 }
23326 \renewenvironment{thebibliography}[1]{%
23327 \if@bib@break@
23328 \bib@beginhook
23329 \else
23330 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23331 \setchapterpreamble{\bibpreamble}%
23332 \fi\fi
23333 \bib@heading
23334 \bib@beginhook

```



```

23335 \bib@before@hook
23336 \fi
23337 \renewcommand{\BreakBibliography}[1]{%
23338 \@bib@break
23339 \end{thebibliography}%
23340 \begingroup ##1\endgroup
23341 \begin{thebibliography}{#1}
23342 }%
23343 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23344 \bidi@thebibliography@font@hook%
23345 \list{%
23346 \@biblabel{\@arabic\c@enumiv}%
23347 }{%
23348 \settowidth\labelwidth{\@biblabel{#1}}%
23349 \leftmargin\labelwidth
23350 \advance\leftmargin\labelsep
23351 \@openbib@code
23352 \if@bib@break@
23353 \edef\@tempa{%
23354 \noexpand\usecounter{enumiv}}%
23355 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23356 }\@tempa
23357 \no@bib@break
23358 \else
23359 \usecounter{enumiv}%
23360 \fi
23361 \let\p@enumiv\@empty
23362 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23363 }%
23364 \sloppy\clubpenalty4000 \widowpenalty4000
23365 \sfcode`.\@m
23366 }{%
23367 \if@bib@break@
23368 \def\@noitemerr{%
23369 \@latex@warning{%
23370 \string\BreakBibliography\space at begin of `thebibliography'
23371 environment\MessageBreak
23372 or following \string\BreakBibliography}%
23373 }%
23374 \else
23375 \def\@noitemerr{%
23376 \@latex@warning{%
23377 Empty `thebibliography' environment or
23378 \string\BreakBibliography\MessageBreak
23379 before end of `thebibliography' environment}%
23380 }%
23381 \fi
23382 \endlist
23383 \if@bib@break@
23384 \else
23385 \bib@after@hook
23386 \let\bib@before@hook\@empty
23387 \let\bib@after@hook\@empty
23388 \fi

```



```

23389 \bib@endhook
23390 }
23391 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
23392 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
23393 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
23394 \renewcommand\marginline[1]{%
23395 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23396 }
23397 \renewcommand{\@makecaption}[3]{%
23398 \cap@margin
23399 \begingroup
23400 \ifonelinecaptions
23401 \def\stepcounter##1{\advance\value{##1}\@ne}%
23402 \let\refstepcounter\stepcounter
23403 \let\label\@gobble
23404 \let\@footnotetext=\@gobble
23405 \let\@LTRfootnotetext=\@gobble
23406 \let\@RTLfootnotetext=\@gobble
23407 \let\hypertarget\@gobbletwo
23408 \edef\@xnewline{%
23409 \unexpanded{\ClassInfo{\KOMACClassName}}{%
23410 Workaround for not recommended usage of \string\ or\MessageBreak
23411 \string\newline in caption text
23412 }%
23413 \hspace*{\linewidth}\hspace{1sp}%
23414 }%
23415 \unexpanded\expandafter{\@xnewline}%
23416 }%
23417 \edef\@xcentercr{%
23418 \unexpanded{\ClassInfo{\KOMACClassName}}{%
23419 Workaround for not recommended usage of \string\ or\MessageBreak
23420 \string\newline in caption text
23421 }%
23422 \hspace*{\linewidth}\hspace{1sp}%
23423 }%
23424 \unexpanded\expandafter{\@xcentercr}%
23425 }%
23426 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23427 \ifdim\@tempdima>\cap@width
23428 \aftergroup\scr@makemultilinecaption
23429 \else
23430 \aftergroup\scr@makesinglelinecaption
23431 \fi
23432 \else
23433 \aftergroup\scr@makemultilinecaption
23434 \fi
23435 \endgroup
23436 {#1}{#2}{#3}%
23437 }
23438 \renewcommand{\scr@makesinglelinecaption}[3]{%
23439 {%
23440 \usefontofkomafont{caption}{%
23441 \hb@xt@\hsize{%
23442 \cap@left

```



```

23443     \if@RTL
23444         \beginR
23445     \fi
23446     \scr@makesinglelinecaption{#1}{#2}{#3}%
23447     \if@RTL
23448         \endR
23449     \fi
23450     \cap@right
23451 } \par \kern \dp \strutbox%
23452 }%
23453 } \kern - \dp \strutbox
23454 }
23455 \renewcommand{\@makecaption}[2]{%
23456   \if@captionabove
23457     \vskip\belowcaptionskip
23458   \else
23459     \vskip\abovecaptionskip
23460   \fi
23461   \@makecaption\@firstofone{#1}{#2}%
23462   \if@captionabove
23463     \vskip\abovecaptionskip
23464   \else
23465     \vskip\belowcaptionskip
23466   \fi
23467 }
23468
23469 \renewcommand{\scr@makesinglelinecaption}[3]{%
23470   {\usekomafont{caption}{\strut\ignorespaces
23471     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23472   \ignorespaces #3\unskip}}%
23473 }
23474
23475 \renewcommand{\scr@makemultilinecaption}[3]{%
23476   {%
23477     \usefontofkomafont{caption}{%
23478       \hb@xt@\hsize{%
23479         \cap@left
23480         \vbox{\hsize\cap@width\linewidth\hsize
23481           \scr@ifundefinedorrelax{@capttype}{%
23482             \ClassWarning{\KOMAClassName}{%
23483               `string\caption' outside float.\MessageBreak
23484               Seems you are using `string\caption' outside a
23485               float.\MessageBreak
23486               Maybe you are using a package that uses
23487               `string\@makecaption'\MessageBreak
23488               without setting `string\@capttype' before.\MessageBreak
23489               Because I cannot detect the caption type, I'm using\MessageBreak
23490               the empty one.%
23491             }%
23492             \let\@capttype\@empty
23493           }{}%
23494           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
23495             \@nameuse{ragged\@capttype caption}%
23496           }%

```




```

23497 \ifdofullc@p
23498 \@hangfrom{%
23499 \strut
23500 \scr@smashdp{%
23501 #1{%
23502 \usekomafont{caption}{%
23503 \usekomafont{captionlabel}{#2\captionformat}%
23504 }%
23505 }%
23506 }%
23507 }%
23508 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23509 \else
23510 \ifdim\cap@indent<\z@
23511 \strut
23512 #1{%
23513 {\usekomafont{caption}{%
23514 \usekomafont{captionlabel}{#2\captionformat}%
23515 }%
23516 }\par}%
23517 \noindent{{\usekomafont{caption}{%
23518 \hspace*{-\cap@indent}#3\scr@endstrut
23519 }}\par}%
23520 \else
23521 \if@capbreak
23522 \strut
23523 #1{%
23524 {\usekomafont{caption}{%
23525 \usekomafont{captionlabel}{#2\captionformat}%
23526 }%
23527 }\par}%
23528 \noindent\@hangfrom{\hspace*{\cap@indent}}%
23529 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23530 \else
23531 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23532 {%
23533 \hspace{-\cap@indent}%
23534 \scr@smashdp{%
23535 #1{\usekomafont{caption}{%
23536 \usekomafont{captionlabel}{#2\captionformat}%
23537 }%
23538 }%
23539 }%
23540 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23541 }%
23542 \fi
23543 \fi
23544 \fi
23545 }%
23546 \cap@right
23547 }\par\kern\dp\strutbox
23548 }%
23549 }\kern-\dp\strutbox
23550 }

```



```

23551
23552
23553 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23554   \if@komalongtable
23555     \renewcommand{\LT@makecaption}[3]{%
23556       \noalign{%
23557         \if@captionabove
23558           \vskip\belowcaptionskip
23559         \else
23560           \vskip\abovecaptionskip
23561         \fi
23562       }%
23563       \LT@mc\LT@cols c{%
23564         \hbox to\z@{\hss\parbox[t]{\linewidth{%
23565           \def\@capttype{table}%
23566           \@makecaption{#1}{#2}{#3}%
23567           \endgraf
23568           \if@captionabove
23569             \vskip\abovecaptionskip
23570           \else
23571             \vskip\belowcaptionskip
23572           \fi
23573         }%
23574         \hss
23575       }%
23576     }%
23577   }%
23578   \renewcommand*\scr@LT@array}{}%
23579   \let\scr@LT@array=\LT@array
23580   \renewcommand*\LT@array}{%
23581     \let\scr@caption=\LT@caption
23582     \def\captionabove{\noalign{\global\@captionabovetrue}%
23583       \scr@caption}%
23584     \def\captionbelow{\noalign{\global\@captionabovefalse}%
23585       \scr@caption}%
23586     \if@tablecaptionabove
23587       \let\LT@caption=\captionabove
23588     \else
23589       \let\LT@caption=\captionbelow
23590     \fi
23591     \scr@LT@array
23592   }%
23593   \ClassInfo{\KOMAClassName}{%
23594     longtable captions redefined%
23595   }%
23596 \fi
23597 }
23598
23599 \CloneTOCEntryStyle{tocline}{part}
23600 \TOCEntryStyleStartInitCode{part}{%
23601   \expandafter\renewcommand%
23602   \csname scr@tso@#1@linefill\endcsname{\hfill}%
23603   \expandafter\renewcommand%
23604   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%

```



```

23605 \expandafter\renewcommand%
23606 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23607   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23608 \expandafter\renewcommand\expandafter*%
23609 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23610 }
23611
23612 \CloneTOCEntryStyle{tocline}{chapter}
23613 \TOCEntryStyleStartInitCode{chapter}{%
23614   \expandafter\renewcommand%
23615   \csname scr@tso@#1@linefill\endcsname{%
23616     \if@chapterentrywithdots
23617       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23618     \else
23619       \hfill
23620     \fi
23621   }%
23622 \expandafter\renewcommand%
23623 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23624 \expandafter\renewcommand%
23625 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23626   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23627 \expandafter\renewcommand\expandafter*%
23628 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23629 }
23630
23631 \CloneTOCEntryStyle{tocline}{section}
23632 \TOCEntryStyleStartInitCode{section}{%
23633   \expandafter\renewcommand%
23634   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23635   \expandafter\renewcommand%
23636   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23637     {\normalfont\normalcolor ##1}}%
23638 }
23639
23640 \CloneTOCEntryStyle{section}{default}
23641
23642 \DeclareSectionCommand[%
23643   style=chapter,%
23644   level=\z@,%
23645   pagestyle=plain,%
23646   tocstyle=chapter,%
23647   tocindent=\z@,%
23648   tocnumwidth=1.5em%
23649 ]{chapter}
23650 \DeclareSectionCommand[%
23651   style=section,%
23652   level=1,%
23653   indent=\z@,%
23654   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23655   afterskip=2.3ex \@plus .2ex,%
23656   tocstyle=section,%
23657   tocindentfollows=chapter,%
23658   tocindent=1.5em,%

```



```

23659 tocnumwidth=2.3em%
23660 ]{section}
23661 \DeclareSectionCommand[%
23662 style=part,%
23663 level=\m@ne,%
23664 pagestyle=plain,%
23665 tocstyle=part,%
23666 toplevel=\m@ne,%
23667 tocindent=\z@,%
23668 tocnumwidth=2em%
23669 ]{part}
23670 \DeclareSectionCommand[%
23671 style=section,%
23672 level=2,%
23673 indent=\z@,%
23674 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23675 afterskip=1.5ex \@plus .2ex,%
23676 tocstyle=section,%
23677 tocindent=3.8em,%
23678 tocnumwidth=3.2em%
23679 ]{subsection}
23680 \DeclareSectionCommand[%
23681 style=section,%
23682 level=3,%
23683 indent=\z@,%
23684 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23685 afterskip=1.5ex \@plus .2ex,%
23686 tocstyle=section,%
23687 tocindent=7.0em,%
23688 tocnumwidth=4.1em%
23689 ]{subsubsection}
23690 \DeclareSectionCommand[%
23691 style=section,%
23692 level=4,%
23693 indent=\z@,%
23694 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
23695 afterskip=-1em,%
23696 tocindentfollows=subsubsection,%
23697 tocstyle=section,%
23698 tocindent=10em,%
23699 tocnumwidth=5em%
23700 ]{paragraph}
23701 \DeclareSectionCommand[%
23702 style=section,%
23703 level=5,%
23704 indent=\scr@parindent,%
23705 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
23706 afterskip=-1em,%
23707 tocstyle=section,%
23708 tocindent=12em,%
23709 tocnumwidth=6em%
23710 ]{subparagraph}

```



144 File `sidecap-xetex-bidi.def`

```
23711 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23712 \RequirePackage{ragged2e}
23713 \renewcommand*\SC@FLOAT}[2]{\if@RTL%
23714   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23715 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23716 \renewcommand*\SC@justify@caption{\if@RTL%
23717 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23718   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
23719
23720 \@ifpackagewith{sidecap}{innercaption}{%
23721 \if@RTL \renewcommand*\SC@FLOAT}[2]{%
23722   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}}
23723 \renewcommand*\SC@justify@caption{%
23724   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23725 \renewcommand*\SC@FLOAT}[2]{%
23726   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}}
23727 \renewcommand*\SC@justify@caption{%
23728   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi}
23729 }{}
23730
23731 \@ifpackagewith{sidecap}{rightcaption}{%
23732 \if@RTL \renewcommand*\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
23733 \def\SC@justify@caption{\RaggedLeft}\else%
23734 \renewcommand*\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
23735 \def\SC@justify@caption{\RaggedRight}\fi}
23736 }{}
23737
23738 \@ifpackagewith{sidecap}{leftcaption}{%
23739 \if@RTL \renewcommand*\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
23740 \def\SC@justify@caption{\RaggedRight}\else%
23741 \renewcommand*\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
23742 \def\SC@justify@caption{\RaggedLeft}\fi}
23743 }{}

```

145 File `soul-xetex-bidi.def`

```
23744 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23745 \long\def\SOUL@start#1{%
23746   \let\ bidi@RTL@everypar\@empty
23747   \let\<\SOUL@lowerthan
23748   \let\>\empty
23749   \def\soulomit{\noexpand\soulomit}%
23750   \gdef\SOUL@eventuallyexhyphen##1{%
23751     \let\SOUL@soeventuallyskip\relax
23752     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
23753       \@minus\fontdimen4\font
23754     \SOUL@ignorespacesfalse
23755     \leavevmode
23756     \SOUL@preamble
23757     \SOUL@lasttoken={}%
23758     \SOUL@word={}%
23759     \SOUL@minus\z@

```



```

23760 \SOUL@comma\z@
23761 \SOUL@apo\z@
23762 \SOUL@grave\z@
23763 \SOUL@do{#1}%
23764 \SOUL@postamble
23765 }}
23766 \def\SOUL@ulunderline#1{%
23767 \setbox\z@\hbox{#1}%
23768 \dimen@=\wd\z@
23769 \dimen@i=\SOUL@uloverlap
23770 \advance\dimen@2\dimen@i
23771 \if@RTL
23772 \unhcopy\z@
23773 \llap{%
23774 \null
23775 \kern-\dimen@i
23776 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23777 }%
23778 \else
23779 \rlap{%
23780 \null
23781 \kern-\dimen@i
23782 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23783 }%
23784 \unhcopy\z@
23785 \fi
23786 }}
23787 \def\bidi@SOUL@ulleaders{%
23788 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
23789 }
23790 \def\SOUL@uleveryspace#1{%
23791 \if@RTL
23792 #1%
23793 \bidi@SOUL@ulleaders
23794 \hskip\spaceskip
23795 \else
23796 \SOUL@ulcolor{%
23797 #1%
23798 \SOUL@ulleaders
23799 \hskip\spaceskip
23800 }%
23801 \fi
23802 \null
23803 }

```

146 File stabular-xetex-bidi.def

```

23804 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23805 \def\@stabular{%
23806 \leavevmode \bgroup \if@RTLtab\beginR \fi
23807 \let\@acol\@tabacol
23808 \let\@classz\@tabclassz
23809 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23810 \def\endstabular{\cr\egroup\if@RTLtab\egroup\endR\egroup\fi

```



```

23811             \egroup \if@RTLtab\endR\fi\egroup}
23812 \expandafter \let \csname endstabular*\endcsname = \endstabular
23813 \def\@sarray[#1]#2{%
23814   \bgroup
23815   \setbox\@arstrutbox\hbox{%
23816     \vrule \@height\arraystretch\ht\strutbox
23817         \@depth\arraystretch \dp\strutbox
23818         \@width\z@}%
23819   \@mkpream{#2}%
23820   \edef\@preamble{%
23821     \ialign \noexpand\@halignto
23822       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23823   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23824   \let\@tabularnewline\%
23825     \let\@sharp##%
23826     \set@typeset@protect
23827     \lineskip\z@skip\baselineskip\z@skip
23828   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23829     \@preamble}

```

147 File subfigure-xetex-bidi.def

```

23830 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23831 \AtBeginDocument{%
23832 \let\p@subfigure=\thefigure
23833 \let\p@subtable=\thetable%
23834 }

```

148 File tabs-xetex-bidi.def

```

23835 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23836 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23837
23838 \expandafter\let\csname endtabular*\endcsname=\endtabular
23839
23840 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23841   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23842   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23843
23844 \def\@array[#1]#2{% remember global variables to allow recursion:
23845   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23846     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23847   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23848   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23849   \else \let\@tarlinesep\tablinesep \fi
23850   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23851   \let\@seesize\relax \let\@remesize\relax \@mkpream{#2}%
23852   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23853   \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23854     \def\@remesize{\protect\@r@m@msize}\let\@seesize\@s@size
23855     \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23856   \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23857     \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23858   \let\protect\noexpand

```



```

23859 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23860 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23861 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23862 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23863 \bgroup \let\par\empty
23864 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23865 \advance\extrarulesep.5\arrayrulewidth
23866 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23867 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23868 \@preamble}

```

149 File tabularx-xetex-bidi.def

```

23869 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
23870 \def\TX@endtabularx{%
23871   \expandafter\expandafter\expandafter
23872     \TX@find@endtabularxa\csname end\TX@\endcsname
23873     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23874   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
23875   \let\verb\TX@verb
23876   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23877   \edef\TX@ckpt{\cl@ckpt}%
23878   \let\@elt\relax
23879   \TX@old@table\maxdimen
23880   \TX@col@width\TX@target
23881   \global\TX@cols\@ne
23882   \TX@typeout@
23883     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23884   \TX@trial{\def\NC@rewriteX{%
23885     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23886   \loop
23887     \TX@arith
23888     \ifTX@
23889     \TX@trial{%
23890   \repeat
23891     {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23892     \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23893     \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23894     \csname tabular*\expandafter\endcsname\expandafter\TX@target
23895     \the\toks@
23896     \csname endtabular*\endcsname}%
23897   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23898   \ifnum0=\fi}%
23899   \expandafter\expandafter\expandafter
23900   \TX@find@endtabularxbb
23901   \expandafter\end\expandafter{\TX@}%
23902   \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23903 }
23904
23905 \def\TX@trial#1{%
23906   \setbox\@tempboxa\hbox{%
23907     #1\relax
23908   \let\@footnotetext\TX@trial@ftn
23909   \let\@LTRfootnotetext\TX@trial@ftn

```




```

23910 \let\@RTLfootnotetext\TX@trial@ftn
23911 \let\TX@vwarn\@empty
23912 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23913 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23914 \def\write{\begingroup
23915   \def\let{\afterassignment\endgroup\toks@}%
23916   \afterassignment\let\count@}%
23917   \hbadness\@M
23918   \hfuzz\maxdimen
23919   \let\hbadness\@tempcnta
23920   \let\hfuzz\@tempdima
23921   \expandafter\tabular\the\toks@
23922   \endtabular}%
23923 \TX@ckpt
23924 \TX@typeout@{\@spaces
23925   \expandafter\TX@align
23926   \the\wd\@tempboxa\space\space\space\space\space\@
23927   \expandafter\TX@align
23928   \the\TX@col@width\space\space\space\space\space\@
23929   \@spaces\the\TX@cols}}
23930
23931 \long\def\TX@LTRftntext#1{%
23932   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23933     [\the\csname c@\@mpfn\endcsname]}%
23934   \global\TX@ftn\expandafter{\@tempa{#1}}}%
23935 \long\def\TX@xLTRftntext[#1]#2{%
23936   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23937
23938 \long\def\TX@RTLftntext#1{%
23939   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23940     [\the\csname c@\@mpfn\endcsname]}%
23941   \global\TX@ftn\expandafter{\@tempa{#1}}}%
23942 \long\def\TX@xRTLftntext[#1]#2{%
23943   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

150 File tabulary-xetex-bidi.def

```

23944 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23945 \def\@testpach{\@chclass
23946   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23947   \ifnum \@lastchclass=7 5 \else
23948   \ifnum \@lastchclass=8 \tw@ \else
23949   \ifnum \@lastchclass=9 \thr@@
23950   \else \z@
23951   \ifnum \@lastchclass = 10 \else
23952   \edef\@nextchar{\expandafter\string\@nextchar}%
23953   \@chnum
23954   \if \@nextchar c\z@ \else
23955   \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23956   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
23957   \if \@nextchar C7 \else
23958   \if \@nextchar L8 \else
23959   \if \@nextchar R9 \else
23960   \if \@nextchar J10 \else

```



```

23961 \z@ \@chclass
23962 \if\@nextchar |\@ne \else
23963 \if \@nextchar !6 \else
23964 \if \@nextchar @7 \else
23965 \if \@nextchar <8 \else
23966 \if \@nextchar >9 \else
23967 10
23968 \@chnum
23969 \if \@nextchar m\thr@@\else
23970 \if \@nextchar p4 \else
23971 \if \@nextchar b5 \else
23972 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
23973 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

151 File tc-xetex-xetex-bidi.def

```

23974 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver
23975 \def\@cliptoboxdim#1{%
23976 \setbox#1=\hbox{%
23977 \Gin@defaultbp\WIDTH{\wd#1}%
23978 \Gin@defaultbp\DEPTH{\dp#1}%
23979 \@tempdima\ht#1%
23980 \advance\@tempdima\dp#1%
23981 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23982 \beginL\special{pdf:bcontent }%
23983 \special{%
23984 pdf:literal direct
23985 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23986 }%
23987 \special{pdf:literal direct W }%
23988 \special{pdf:literal direct n }%
23989 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23990 \special{pdf:econtent }\endL%
23991 }%
23992 }

```

152 File tcolorbox-xetex-bidi.def

```

23993 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
23994 \let\endtcblrbox=\endminipage
23995 \let\endtcbsavebox=\endtcblrbox
23996
23997 \bidi@patchcmd{\tcb@vbox}{%
23998 \let\@footnotetext\@mpfootnotetext%
23999 }{%
24000 \let\@footnotetext\@mpfootnotetext%
24001 \let\@LTRfootnotetext\@mpLTRfootnotetext%
24002 \let\@RTLfootnotetext\@mpRTLfootnotetext%
24003 }-{}
24004
24005 \bidi@patchcmd{\endtcbvbox}{%
24006 \footnoterule%
24007 }{%
24008 \bidi@mpfootnoterule%

```



```

24009 }{}{}
24010 \bidi@apptocmd\tcb@icolorbox{%
24011 \@bidi@list@minipage@parboxfalse
24012 }{}{}

```

153 File titlesec-xetex-bidi.def

```

24013 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
24014 \renewcommand\filright{%
24015 \gdef\ttl@filleft##1{\hskip##1}%
24016 \gdef\ttl@filright##1{\hfill}%
24017 \let\\\@centercr
24018 \advance\rightskip\z@ \@plus 1fil
24019 \parfillskip\z@}
24020 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
24021 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
24022 \setlength\leftskip{#6}%
24023 \setlength\rightskip{#7}%
24024 \interlinepenalty\@M
24025 \ttl@changecentercr
24026 \ttl@beginlongest
24027 #1{\ifhmode\ttl@hmode@error\fi
24028 \ttl@glcmds
24029 \parindent\z@
24030 \leavevmode
24031 \begingroup
24032 \ifttl@label
24033 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24034 \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24035 \llap{\box\z@}%
24036 \fi
24037 #4{#8}%
24038 \kern\z@\strut\@par
24039 \endgroup
24040 \nobreak\ttl@midlongest#5\@par}%
24041 \ttl@endlongest}

```

154 File titletoc-xetex-bidi.def

```

24042 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24043 \renewcommand\filright{%
24044 \gdef\ttl@filleft##1{\hskip##1}%
24045 \gdef\ttl@filright##1{\hfill}%
24046 \let\\\@centercr
24047 \advance\rightskip\z@ \@plus 1fil
24048 \parfillskip\z@}
24049 \renewcommand\contentspush[1]{%
24050 \sbox\z@{#1}%
24051 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
24052 \aftergroup\ttl@b
24053 \leavevmode\llap{\box\z@}}
24054 \def\ttl@outnoblock#1#2#3{%
24055 \begingroup
24056 \ifnum\ttl@b>\ttl@a

```



```

24057 \nobreak
24058 \else\ifnum\ttl@b<\ttl@a
24059 \addpenalty{\@secpenalty}%
24060 \else
24061 \addpenalty{\z@}%
24062 \fi\fi
24063 \ttl@contentsstretch
24064 \nobreak
24065 \ifcase#1\relax\else\interlinepenalty\@M\fi
24066 \parindent\z@
24067 \ifx\@nil#2%
24068 \PackageError{titletoc}{Unimplemented}%
24069 {The optional argument is currently mandatory}%
24070 \else
24071 \ifRTL\setlength\rightskip{#2}\else
24072 \setlength\leftskip{#2}\fi%
24073 \fi
24074 \ifRTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24075 \let\contentsmargin\ttl@margin
24076 \def\ttl@makeline##1{##1}%
24077 #3%
24078 \addtolength{\parfillskip}{-\ttl@corr}%
24079 \ifRTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24080 \let\ttl@leaders\leaders}
24081 \renewcommand\ttl@margin[2][\z@]{%
24082 \def\ttl@corr{#1}%
24083 \advance\ifRTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24084 \advance\ifRTL\leftskip\else\rightskip\fi#2\relax
24085 \def\@pnumwidth{#2}}
24086 \let\ttl@savel@part\l@part
24087 \def\l@part{\ttl@lselect{part}}
24088
24089 \let\ttl@savel@chapter\l@chapter
24090 \def\l@chapter{\ttl@lselect{chapter}}

```

155 File tocbibind-xetex-bidi.def

```

24091 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24092 \IfClassLoadedT{memoir}{\endinput}
24093 \if@dotocbib
24094 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24095 \renewcommand{\bibsection}{\t@cb@bchapsec}
24096 \renewenvironment{thebibliography}[1]{%
24097 \bibsection
24098 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
24099 \renewenvironment{thebibitemlist}[1]{
24100 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
24101 \bidi@thebibliography@font@hook%
24102 \list{\@biblabel{\@arabic{c@enumiv}}%
24103 {\settoheight\labelwidth{\@biblabel{#1}}%
24104 \leftmargin\labelwidth
24105 \advance\leftmargin\labelsep
24106 \@openbib@code
24107 \usecounter{enumiv}}%

```



```

24108         \let\p@enumiv\@empty
24109         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
24110     \sloppy
24111     \clubpenalty4000
24112     \@clubpenalty \clubpenalty
24113     \widowpenalty4000%
24114     \sfcode`\.\@m}
24115     {\def\@noitemerr
24116       {\@latex@warning{Empty `thebibliography' environment}}}%
24117     \endlist}
24118
24119 \ApplyPatchCodeToPackage{chapterbib}{%
24120   \ifpackagewith{chapterbib}{sectionbib}%
24121     {\renewcommand{\sectionbib}[2]{}}%
24122     {}%
24123 }
24124
24125 \fi
24126 \if@inltxdoc\else
24127   \renewenvironment{theindex}%
24128     {\if@twocolumn
24129       \@restonecolfalse
24130       \else
24131         \@restonecoltrue
24132       \fi
24133     \if@bibchapter
24134       \if@donumindex
24135         \refstepcounter{chapter}
24136         \twocolumn[\vspace*{2\topskip}%
24137           \@makechapterhead{\indexname}]]%
24138         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24139         \chaptermark{\indexname}
24140       \else
24141         \if@dotocind
24142           \twocolumn[\vspace*{2\topskip}%
24143             \@makeschapterhead{\indexname}]]%
24144           \prw@mkboth{\indexname}
24145           \addcontentsline{toc}{chapter}{\indexname}
24146         \else
24147           \twocolumn[\vspace*{2\topskip}%
24148             \@makeschapterhead{\indexname}]]%
24149           \prw@mkboth{\indexname}
24150         \fi
24151       \fi
24152     \else
24153       \if@donumindex
24154         \twocolumn[\vspace*{-1.5\topskip}%
24155           \@nameuse{\@tocextra}{\indexname}]]%
24156         \csname \@tocextra mark\endcsname{\indexname}
24157       \else
24158         \if@dotocind
24159           \twocolumn[\vspace*{-1.5\topskip}%
24160             \toc@headstar{\@tocextra}{\indexname}]]%
24161         \prw@mkboth{\indexname}

```



```

24162         \addcontentsline{toc}{\@tocextra}{\indexname}
24163     \else
24164         \twocolumn[\vspace*{-1.5\topskip}%
24165             \toc@headstar{\@tocextra}{\indexname}]%
24166         \prw@mkboth{\indexname}
24167     \fi
24168 \fi
24169 \fi
24170 \thispagestyle{plain}\parindent\z@
24171 \parskip\z@ \@plus .3\p@\relax
24172 \let\item\@idxitem}
24173 {\if@restonecol\onecolumn\else\clearpage\fi}
24174 \fi

```

156 File `tocloft-xetex-bidi.def`

```

24175 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24176 \IfClassLoadedT{memoir}{\endinput}
24177 \renewcommand{\cftpnualign}{\if@RTL l\else r\fi}
24178 \let\cftdot\@SepMark
24179 \if@cfthaspart
24180 \renewcommand*{\l@part}[2]{
24181     \@cftdopartfalse
24182     \ifnum \c@tocdepth >-2\relax
24183         \if@cfthaschapter
24184             \@cftdoparttrue
24185         \fi
24186         \ifnum \c@tocdepth >\m@ne
24187             \if@cfthaschapter\else
24188                 \@cftdoparttrue
24189             \fi
24190         \fi
24191     \fi
24192 \if@cftdopart
24193     \if@cfthaschapter
24194         \addpenalty{-\@highpenalty}
24195     \else
24196         \addpenalty\@secpenalty
24197     \fi
24198     \addvspace{\cftbeforepartskip}
24199     \begingroup
24200     {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24201     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24202     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24203     \parindent \cftpartindent\relax\@afterindenttrue
24204     \interlinepenalty\@M
24205     \leavevmode
24206     \@tempdima \cftpartnumwidth\relax
24207     \let\@cftbsnum \cftpartpresnum
24208     \let\@cftasnum \cftpartaftersnum
24209     \let\@cftasnumb \cftpartaftersnumb
24210     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24211     {\cftpartfont \cftpartpresnum #1}
24212     \cftpartfillnum{#2}}

```



```

24213     \nobreak
24214     \if@cfthaschapter
24215         \global\@nobreaktrue
24216         \everypar{\global\@nobreakfalse\everypar{}}
24217     \else
24218         \if@compatibility
24219             \global\@nobreaktrue
24220             \everypar{\global\@nobreakfalse\everypar{}}
24221         \fi
24222     \fi
24223 \endgroup
24224 \fi}
24225 \fi
24226 \if@cfthaschapter
24227 \renewcommand*{\l@chapter}[2]{
24228     \ifnum \c@tocdepth >\m@ne
24229         \addpenalty{-\@highpenalty}
24230         \vskip \cftbeforechapskip
24231         {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24232         \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24233         \parfillskip -\if@RTL\leftskip\else\righskip\fi
24234         \parindent \cftchapindent\relax\@afterindenttrue
24235         \interlinepenalty\@M
24236         \leavevmode
24237         \@tempdima \cftchapnumwidth\relax
24238         \let\@cftbsnum \cftchappresnum
24239         \let\@cftasnum \cftchapaftersnum
24240         \let\@cftasnumb \cftchapaftersnumb
24241         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24242         {\cftchapfont #1}\nobreak
24243         \cftchapfillnum{#2}}
24244     \fi}
24245 \fi
24246 \renewcommand*{\l@section}[2]{%
24247     \ifnum \c@tocdepth >\z@
24248         \if@cfthaschapter
24249             \vskip \cftbeforeseckskip
24250         \else
24251             \addpenalty\@secpenalty
24252             \addvspace{\cftbeforeseckskip}
24253         \fi
24254         {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24255         \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24256         \parfillskip -\if@RTL\leftskip\else\righskip\fi
24257         \parindent \cftsecindent\relax\@afterindenttrue
24258         \interlinepenalty\@M
24259         \leavevmode
24260         \@tempdima \cftsecnumwidth\relax
24261         \let\@cftbsnum \cftsecpresnum
24262         \let\@cftasnum \cftsecaftersnum
24263         \let\@cftasnumb \cftsecaftersnumb
24264         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24265         {\cftsecfont #1}\nobreak
24266         \cftsecfillnum{#2}}

```



```

24267 \fi}
24268 \renewcommand*\l@section}[2]{%
24269 \ifnum \c@tocdepth >\@ne
24270 \vskip \cftbeforesecskip
24271 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
24272 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24273 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24274 \parindent \cftsubsecindent\relax\@afterindenttrue
24275 \interlinepenalty\@M
24276 \leavevmode
24277 \@tempdima \cftsubsecnumwidth\relax
24278 \let\@cftbsnum \cftsubsecpresnum
24279 \let\@cftasnum \cftsubsecaftersnum
24280 \let\@cftasnumb \cftsubsecaftersnumb
24281 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24282 {\cftsubsecfont #1}\nobreak
24283 \cftsubsecfillnum{#2}}
24284 \fi}
24285 \renewcommand*\l@subsubsection}[2]{%
24286 \ifnum \c@tocdepth >\tw@
24287 \vskip \cftbeforesubsecskip
24288 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
24289 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24290 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24291 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24292 \interlinepenalty\@M
24293 \leavevmode
24294 \@tempdima \cftsubsubsecnumwidth\relax
24295 \let\@cftbsnum \cftsubsubsecpresnum
24296 \let\@cftasnum \cftsubsubsecaftersnum
24297 \let\@cftasnumb \cftsubsubsecaftersnumb
24298 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24299 {\cftsubsubsecfont #1}\nobreak
24300 \cftsubsubsecfillnum{#2}}
24301 \fi}
24302 \renewcommand*\l@paragraph}[2]{%
24303 \ifnum \c@tocdepth >3\relax
24304 \vskip \cftbeforeparaskip
24305 {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
24306 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24307 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24308 \parindent \cftparaindent\relax\@afterindenttrue
24309 \interlinepenalty\@M
24310 \leavevmode
24311 \@tempdima \cftparanumwidth\relax
24312 \let\@cftbsnum \cftparapresnum
24313 \let\@cftasnum \cftparaaftersnum
24314 \let\@cftasnumb \cftparaaftersnumb
24315 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24316 {\cftparafont #1}\nobreak
24317 \cftparafillnum{#2}}
24318 \fi}
24319 \renewcommand*\l@subparagraph}[2]{%
24320 \ifnum \c@tocdepth >4\relax

```




```

24321 \vskip \cftbeforeparaskip
24322 {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
24323 \if@RTL\leftskip\else\righskip\fi \toctrmarg
24324 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24325 \parindent \cftsubparaindent\relax\@afterindenttrue
24326 \interlinepenalty\@M
24327 \leavevmode
24328 \@tempdima \cftsubparanumwidth\relax
24329 \let\@cftbsnum \cftsubparapresnum
24330 \let\@cftasnum \cftsubparaaftersnum
24331 \let\@cftasnumb \cftsubparaaftersnumb
24332 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24333 {\cftsubparafont #1}\nobreak
24334 \cftsubparafillnum{#2}}
24335 \fi}
24336 \renewcommand*\l@figure}[2]{%
24337 \ifnum \c@lofdepth >\z@
24338 \vskip \cftbeforefigskip
24339 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
24340 \if@RTL\leftskip\else\righskip\fi \toctrmarg
24341 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24342 \parindent \cftfigindent\relax\@afterindenttrue
24343 \interlinepenalty\@M
24344 \leavevmode
24345 \@tempdima \cftfignumwidth\relax
24346 \let\@cftbsnum \cftfigpresnum
24347 \let\@cftasnum \cftfigaftersnum
24348 \let\@cftasnumb \cftfigaftersnumb
24349 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24350 {\cftfigfont #1}\nobreak
24351 \cftfigfillnum{#2}}
24352 \fi
24353 }
24354 \renewcommand*\l@table}[2]{%
24355 \ifnum\c@lotdepth >\z@
24356 \vskip \cftbeforetabskip
24357 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
24358 \if@RTL\leftskip\else\righskip\fi \toctrmarg
24359 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24360 \parindent \cfttabindent\relax\@afterindenttrue
24361 \interlinepenalty\@M
24362 \leavevmode
24363 \@tempdima \cfttabnumwidth\relax
24364 \let\@cftbsnum \cfttabpresnum
24365 \let\@cftasnum \cfttabaftersnum
24366 \let\@cftasnumb \cfttabaftersnumb
24367 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24368 {\cfttabfont #1}\nobreak
24369 \cfttabfillnum{#2}}
24370 \fi
24371 }
24372 \renewcommand{\@cftl@subfig}{
24373 \renewcommand*\l@subfigure}[2]{%
24374 \ifnum \c@lofdepth > \toclevel@subfigure

```



```

24375 \vskip \cftbeforesubfigskip
24376 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24377 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24378 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24379 \parindent \cftsubfigindent\relax\@afterindenttrue
24380 \interlinepenalty\@M
24381 \leavevmode
24382 \@tempdima \cftsubfignumwidth\relax
24383 \let\@cftbsnum \cftsubfigpresnum
24384 \let\@cftasnum \cftsubfigaftersnum
24385 \let\@cftasnumb \cftsubfigaftersnumb
24386 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24387 {\cftsubfigfont ##1}\nobreak
24388 \cftsubfigfillnum{##2}}
24389 \fi
24390 }
24391 }
24392 \renewcommand{\@cftl@subtab}{
24393 \renewcommand*\@l@subtable}[2]{%
24394 \ifnum \c@lotdepth > \toclevel@subtable
24395 \vskip \cftbeforesubtabskip
24396 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24397 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24398 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24399 \parindent \cftsubtabindent\relax\@afterindenttrue
24400 \interlinepenalty\@M
24401 \leavevmode
24402 \@tempdima \cftsubtabnumwidth\relax
24403 \let\@cftbsnum \cftsubtabpresnum
24404 \let\@cftasnum \cftsubtabaftersnum
24405 \let\@cftasnumb \cftsubtabaftersnumb
24406 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24407 {\cftsubtabfont ##1}\nobreak
24408 \cftsubtabfillnum{##2}}
24409 \fi
24410 }
24411 }
24412 \renewcommand{\newlistentry}[4][\@empty]{%
24413 \@ifundefined{c@#2}{% check & set the counter
24414 \ifx \@empty#1\relax
24415 \newcounter{#2}
24416 \else
24417 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
24418 {#1 has no counter for use as a `within'}}
24419 \newcounter{#2}}%
24420 {\newcounter{#2}[#1}%
24421 \expandafter\edef\csname the#2\endcsname{%
24422 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}}
24423 \fi
24424 \setcounter{#2}{0}
24425 }
24426 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24427
24428 \@namedef{l@#2}##1##2{%

```



```

24429 \ifnum \@nameuse{c@#3depth} > #4\relax
24430 \vskip \@nameuse{cftbefore#2skip}
24431 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24432 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24433 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24434 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24435 \interlinepenalty\@M
24436 \leavevmode
24437 \@tempdima \@nameuse{cft#2numwidth}\relax
24438 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24439 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24440 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24441 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\ri
24442 {\@nameuse{cft#2font}##1}\nobreak
24443 \@nameuse{cft#2fillnum}{##2}}
24444 \fi
24445 } % end of \l@#2
24446
24447 \expandafter\newlength\csname cftbefore#2skip\endcsname
24448 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24449 \expandafter\newlength\csname cft#2indent\endcsname
24450 \expandafter\newlength\csname cft#2numwidth\endcsname
24451 \ifcase #4\relax % 0
24452 \setlength{\@nameuse{cft#2indent}}{0em}
24453 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24454 \or % 1
24455 \setlength{\@nameuse{cft#2indent}}{1.5em}
24456 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24457 \or % 2
24458 \setlength{\@nameuse{cft#2indent}}{3.8em}
24459 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24460 \or % 3
24461 \setlength{\@nameuse{cft#2indent}}{7.0em}
24462 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24463 \else % anything else
24464 \setlength{\@nameuse{cft#2indent}}{10.0em}
24465 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24466 \fi
24467 \@namedef{cft#2font}{\normalfont}
24468 \@namedef{cft#2presnum}{}
24469 \@namedef{cft#2aftersnum}{}
24470 \@namedef{cft#2aftersnumb}{}
24471 \@namedef{cft#2dotsep}{\cftdotsep}
24472 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24473 \@namedef{cft#2pagefont}{\normalfont}
24474 \@namedef{cft#2afterpnum}{}
24475 \@namedef{toclevel@#2}{#4}
24476 \@namedef{cft#2fillnum}##1{%
24477 {\@nameuse{cft#2leader}}\nobreak
24478 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24479 } % end \newlistentry
24480 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24481 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24482 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax

```



```

24483 \if@RTL\leftskip\else\rightskip\fi \@tocmarg\relax
24484 \textit{#1}\protect\par}}

```

157 File tocbasic-xetex-bidi.def

```

24485 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24486 \bidi@undef\scr@dte@def@l@undottedtocline
24487 \bidi@undef\scr@dte@undottedtocline@init
24488 \DeclareTOCEntryStyle{undottedtocline}[{%
24489   \DefineTOCEntryLengthOption{indent}{%
24490     {scr@tso@}{@indent}{entry indent}}%
24491   \DefineTOCEntryLengthOption{numwidth}{%
24492     {scr@tso@}{@numwidth}{entry number width}}%
24493   \@ifundefined{#1tocdepth}{%
24494     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24495       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24496         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24497           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24498             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24499               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24500                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24501                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24502                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24503                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
24504                         \csname #1numdepth\endcsname
24505                     }%
24506                   }%
24507                 }%
24508               }%
24509             }%
24510           }%
24511         }%
24512       }%
24513     }%
24514   }{%
24515   \@ifundefined{scr@tso@#1@indent}{%
24516     \@ifundefined{scr@#1@tocindent}{%
24517       \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24518         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24519         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24520         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24521         \scr@ifundefinedorrelax{1@chapter}{%
24522         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24523         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24524         \Ifstr{#1}{subsubsection}{%
24525           \@namedef{scr@tso@#1@indent}{3.8em}}%
24526         }{%
24527         \Ifstr{#1}{paragraph}{%
24528           \@namedef{scr@tso@#1@indent}{7em}}%
24529         }{%
24530         \Ifstr{#1}{subparagraph}{%
24531           \@namedef{scr@tso@#1@indent}{10em}}%
24532         }{%
24533         }%

```



```

24534         }%
24535     }%
24536 }%
24537 }%
24538 }{%
24539     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24540     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24541     \Ifstr{#1}{subsubsection}{%
24542     \@namedef{scr@tso@#1@indent}{7.0em}%
24543     }{%
24544     \Ifstr{#1}{paragraph}{%
24545     \@namedef{scr@tso@#1@indent}{10em}%
24546     }{%
24547     \Ifstr{#1}{subparagraph}{%
24548     \@namedef{scr@tso@#1@indent}{12em}%
24549     }{%
24550     }%
24551     }%
24552     }%
24553     }%
24554     }%
24555     }%
24556     }%
24557     }%
24558     }%
24559     }%
24560     }{%
24561     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24562     }%
24563     }{%
24564     \@ifundefined{scr@tso@#1@numwidth}{%
24565     \@ifundefined{scr@#1@tocnumwidth}{%
24566     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24567     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24568     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24569     \scr@ifundefinedorrelax{chapter}{%
24570     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24571     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24572     \Ifstr{#1}{subsubsection}{%
24573     \@namedef{scr@tso@#1@numwidth}{3.2em}%
24574     }{%
24575     \Ifstr{#1}{paragraph}{%
24576     \@namedef{scr@tso@#1@numwidth}{4.1em}%
24577     }{%
24578     \Ifstr{#1}{subparagraph}{%
24579     \@namedef{scr@tso@#1@numwidth}{5m}%
24580     }{%
24581     }%
24582     }%
24583     }%
24584     }%
24585     }%
24586     }{%
24587     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%

```



```

24588         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24589         \Ifstr{#1}{subsubsection}{%
24590         \@namedef{scr@tso@#1@numwidth}{3.1em}%
24591         }{%
24592         \Ifstr{#1}{paragraph}{%
24593         \@namedef{scr@tso@#1@numwidth}{5em}%
24594         }{%
24595         \Ifstr{#1}{subparagraph}{%
24596         \@namedef{scr@tso@#1@numwidth}{6em}%
24597         }{%
24598         }%
24599         }%
24600         }%
24601         }%
24602         }%
24603         }%
24604         }%
24605         }%
24606         }%
24607     }{%
24608     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24609     }%
24610 }{%
24611 }}{%
24612 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24613   \ifnum \@nameuse{#1tocdepth}<\@ne
24614     \scr@ifundefinedorrelax{chapter}{%
24615       \addpenalty\@secpenalty
24616       \addvspace{1.0em \@plus\p@}%
24617     }{%
24618       \addpenalty{-\@highpenalty}%
24619       \vskip 1.0em \@plus\p@
24620     }%
24621   \else
24622     \addpenalty\@secpenalty
24623     \addvspace{1.0em \@plus\p@}%
24624   \fi
24625   \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24626   \begingroup
24627     \parindent \z@ \bidi@rightskip \@pnumwidth
24628     \parfillskip -\@pnumwidth
24629     \leavevmode
24630     \bfseries
24631     \advance\bidi@leftskip\@tempdima
24632     \Iftocfeature{\@currentx}{noindent}{%
24633       \hskip -\bidi@leftskip
24634     }{%
24635       \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24636       \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24637     }%
24638     ##1%
24639     \nobreak
24640     \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24641   \par

```



```

24642     \penalty\@highpenalty
24643     \endgroup
24644     \fi
24645 }
24646
24647 \bidiundef\scr@dte@def@l@targetocline
24648 \bidiundef\scr@dte@targetocline@init
24649 \DeclareTOCEntryStyle{targetocline}[{%
24650   \DefineTOCEntryLengthOption{indent}%
24651   {scr@tso@}{@indent}{entry indent}%
24652   \@ifundefined{#1tocdepth}{%
24653     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24654     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24655     \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24656     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24657     \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24658     \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24659     \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24660     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24661     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24662     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24663     \csname #1numdepth\endcsname
24664     }%
24665     }%
24666     }%
24667     }%
24668     }%
24669     }%
24670     }%
24671     }%
24672     }%
24673   }{%
24674   \@ifundefined{scr@tso@#1@indent}{%
24675     \@ifundefined{scr@#1@tocindent}{%
24676     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24677     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24678     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24679     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24680     \scr@ifundefinedorrelax{l@chapter}{%
24681     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24682     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24683     \Ifstr{#1}{subsubsection}{%
24684     \@namedef{scr@tso@#1@indent}{3.8em}}%
24685     }{%
24686     \Ifstr{#1}{paragraph}{%
24687     \@namedef{scr@tso@#1@indent}{7em}}%
24688     }{%
24689     \Ifstr{#1}{subparagraph}{%
24690     \@namedef{scr@tso@#1@indent}{10em}}%
24691     }{%
24692     }%
24693     }%
24694     }%
24695     }%

```



```

24696         }%
24697     }{%
24698         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24699             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24700                 \Ifstr{#1}{subsubsection}{%
24701                     \@namedef{scr@tso@#1@indent}{7.0em}%
24702                 }{%
24703                     \Ifstr{#1}{paragraph}{%
24704                         \@namedef{scr@tso@#1@indent}{10em}%
24705                     }{%
24706                         \Ifstr{#1}{subparagraph}{%
24707                             \@namedef{scr@tso@#1@indent}{12em}%
24708                         }{%
24709                             }%
24710                         }%
24711                     }%
24712                 }%
24713             }%
24714         }%
24715     }%
24716 }%
24717 }%
24718 }%
24719 }{%
24720     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24721 }%
24722 }{%
24723 }}{%
24724 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24725     \ifnum \@nameuse{#1tocdepth}<\@ne
24726         \scr@ifundefinedorrelax{chapter}{%
24727             \addpenalty\@secpenalty
24728             \addvspace{2.25em \@plus\p@}%
24729         }{%
24730             \addpenalty{-\@highpenalty}%
24731             \addvspace{2.25em \@plus\p@}%
24732         }%
24733     \else
24734         \addpenalty\@secpenalty
24735         \addvspace{2.25em \@plus\p@}%
24736     \fi
24737     \setlength\@tempdima{3em}%
24738     \begingroup
24739         \parindent \z@ \bidi@rightskip \@pnumwidth
24740         \parfillskip -\@pnumwidth
24741         \leavevmode
24742         \large
24743         \bfseries
24744         \Iftocfeature{\@currentt}{noindent}{%
24745             }{%
24746                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24747             }%
24748         ##1%
24749         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%

```




```

24750     \par
24751     \nobreak
24752     \ifnum 0=
24753         \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24754         \global\@nobreaktrue
24755         \everypar{\global\@nobreakfalse\everypar{}}%
24756     \fi
24757 \endgroup
24758 \fi
24759 }
24760
24761 \renewcommand*{\scr@dte@tocline}[3]{%
24762     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24763     \else
24764         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24765         \addvspace{\@nameuse{scr@tso@#1beforeskip}}\relax
24766         \@nameuse{Ifscr@tso@#1dynindent}{%
24767             \expandafter\ifx\csname scr@tso@#1indentfollows\endcsname\@empty
24768             \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24769         \else
24770             \edef\reserved@a{\@nameuse{scr@tso@#1indentfollows}}%
24771             \@for \reserved@a:=\reserved@a\do {%
24772                 \scr@trim@spaces\reserved@a
24773                 \ifx\reserved@a\@empty\else
24774                     \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24775                         }{%
24776                             \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24777                                 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24778                                 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24779                                     \scr@ifundefinedorrelax
24780                                         {scr@dte@\reserved@a @lastmaxnumwidth}{%
24781                                             \advance\@tempdima
24782                                                 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24783                                         }{%
24784                                             \advance\@tempdima
24785                                                 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24786                                         }%
24787                                     }{%
24788                                         \advance\@tempdima
24789                                         \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24790                                     }%
24791                                 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24792                                 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24793                                     {\the\@tempdima}%
24794                                 \fi
24795                             \fi
24796                         }%
24797                     \fi
24798                 }%
24799             \fi
24800         }{}%
24801         {%
24802             \Iftocfeature{\@currentx}{noindent}{%
24803                 \bidi@leftskip \z@

```



```

24804 }{%
24805   \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24806 }%
24807 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24808 \parfillskip -\bidi@rightskip
24809 \@nameuse{Ifscr@tso@#1@raggedpage}{%
24810   \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24811 }{%
24812 \iftocfeature{\@currentt}{noindent}{%
24813   \parindent \z@
24814 }{%
24815   \parindent \@nameuse{scr@tso@#1@indent}\relax
24816 }%
24817 \@afterindenttrue
24818 \interlinepenalty\M
24819 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24820   \addtolength\bidi@rightskip\@flushglue
24821 \else
24822   \def\reserved@a{\raggedright}%
24823   \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24824     \addtolength\bidi@rightskip\@flushglue
24825   \else
24826     \renewcommand\reserved@a{\raggedright}%
24827     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24828       \addtolength\bidi@rightskip\@flushglue
24829     \fi
24830   \fi
24831 \fi
24832 \leavevmode
24833 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24834 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24835   \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{%
24836     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24837       \tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24838     \fi
24839   }%
24840 }{%
24841 \advance\bidi@leftskip \@tempdima
24842 \null\nobreak\hskip -\bidi@leftskip
24843 {%
24844   \usetocbasicnumberline
24845   \let\scr@dte@numberline@box\numberline@box
24846   \def\numberline@box##1{%
24847     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24848     \global\scr@dte@tocline@numberwidth
24849     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24850     \relax
24851     \ifdim \scr@dte@tocline@numberwidth
24852       >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24853     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24854     \fi
24855     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24856       \ifdim \scr@dte@tocline@numberwidth
24857         >\dimexpr \@nameuse{scr@tso@#1@numwidth}%

```



```

24858             +\@nameuse{scr@tso@#1@numsep}\relax\relax
24859             \PackageWarning{tocbasic}{%
24860             number width of #1 toc entries should be
24861             increased!\MessageBreak
24862             Currently used number width =
24863             \the\wd\scr@dte@tocline@numbox,\MessageBreak
24864             Wanted number separation
24865             \space\space\space =
24866             \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24867             Reserved number width \space\space\space\space\space\space =
24868             \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24869             }%
24870             \fi
24871             }%
24872             \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24873             \@nameuse{Ifscr@tso@#1@breakafternumber}{%
24874             {\parfillskip\@flushglue\par}\nobreak\hskip-\@bidi@leftskip
24875             }{}%
24876             }%
24877             {\@nameuse{scr@tso@#1@entryformat}{%
24878             #2%
24879             \nobreak
24880             {%
24881             \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
24882             \nobreak
24883             \expandafter\let\expandafter\scr@dte@pagenumberwidth
24884             \csname scr@tso@#1@pagenumberwidth\endcsname
24885             \@nameuse{scr@tso@#1@pagenumberbox}{%
24886             \@nameuse{scr@tso@#1@pagenumberformat}{#3}}%
24887             }%
24888             }%
24889             }}\@par
24890             }%
24891             }%
24892             \tocbasic@SetPenaltyByTOCLevel{#1}%
24893             \fi
24894 }
24895
24896
24897 \bidi@undef\scr@dte@def@1@tocline
24898 \bidi@undef\scr@dte@tocline@init
24899 \DeclareTOCEntryStyle{tocline}[{%
24900 \DefineTOCEntryLengthOption{beforeskip}%
24901   {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24902 \DefineTOCEntryIfOption{breakafternumber}%
24903   {scr@tso@}{@breakafternumber}{line break after number flag}%
24904 \DefineTOCEntryIfOption{dynnumwidth}%
24905   {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24906 \DefineTOCEntryListOption{indentfollows}%
24907   {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24908 \DefineTOCEntryIfOption{dynindent}%
24909   {scr@tso@}{@dynindent}{dynamic indent width flag}%
24910 \DefineTOCEntryCommandOption{entryformat}%
24911   {scr@tso@}{@entryformat}[1]{entry format}%

```



```

24912 \DefineTOCEntryCommandOption{entrynumberformat}%
24913   {scr@tso@}{@numberformat}[1]{entry number format}%
24914 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24915   {scr@tso@}{@linefill}{filling between text and page number}%
24916 \DefineTOCEntryLengthOption{numsep}%
24917   {scr@tso@}{@numsep}{entry number separation}%
24918 \DefineTOCEntryCommandOption{onstarthigherlevel}%
24919   {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24920 \DefineTOCEntryCommandOption{onstartlowerlevel}%
24921   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24922 \DefineTOCEntryCommandOption{onstartsamelevel}%
24923   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24924 \DefineTOCEntryCommandOption{pagenumberbox}%
24925   {scr@tso@}{@pagenumberbox}[1]{page number box}%
24926 \DefineTOCEntryCommandOption{pagenumberformat}%
24927   {scr@tso@}{@pagenumberformat}[1]{page number format}%
24928 \DefineTOCEntryLengthOption{pagenumberwidth}%
24929   {scr@tso@}{@pagenumberwidth}{width of page number box}%
24930 \DefineTOCEntryLengthOption{rightindent}%
24931   {scr@tso@}{@rightindent}{entry's text right indent}%
24932 \DefineTOCEntryOption{raggedentrytext}[true]{%
24933   \FamilySetBool{KOMArg}{raggedentrytext}{@tempswa}{##1}%
24934   \ifx\FamilyKeyState\FamilyKeyStateProcessed
24935     \if@tempswa
24936       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24937         \raggedright
24938     \else
24939       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24940         \relax
24941     \fi
24942   \fi
24943 }%
24944 \DefineTOCEntryIfOption{raggedpagenumber}%
24945   {scr@tso@}{@raggedpage}{page number ragged flag}%
24946 \DefineTOCEntryLengthOption{indent}%
24947   {scr@tso@}{@indent}{entry indent}%
24948 \DefineTOCEntryLengthOption{numwidth}%
24949   {scr@tso@}{@numwidth}{entry number width}%
24950 \scr@ifundefinedorrelax{#1tocdepth}{%
24951   \Ifstrstart{#1}{sub}{%
24952     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24953       \expandafter\edef\csname #1tocdepth\endcsname{%
24954         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24955       }%
24956     }%
24957   }{}%
24958 }{}%
24959 \@ifundefined{#1tocdepth}{%
24960   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24961     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24962       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24963         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24964           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24965             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%

```



```

24966         \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24967         \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24968         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24969         \expandafter\let\csname #1tocdepth\expandafter\endcsname
24970         \csname #1numdepth\endcsname
24971         }%
24972         }%
24973         }%
24974         }%
24975         }%
24976         }%
24977         }%
24978         }%
24979         }%
24980     }{}%
24981 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
24982     \ifundefined{scr@#1@tocindent}{%
24983         \Ifstrstart{#1}{sub}{%
24984         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24985         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
24986         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24987         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24988         \relax
24989         }%
24990         }%
24991         }{%
24992         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24993         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24994         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24995         \relax
24996         }%
24997         }{%
24998         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24999         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
25000         +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
25001         \relax
25002         }%
25003         }%
25004         }{}%
25005     }{}%
25006     }{%
25007         \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
25008         }%
25009     }{}%
25010 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
25011     \Ifstrstart{#1}{sub}{%
25012     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
25013     \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25014     }{%
25015     \expandafter\let
25016     \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
25017     \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
25018     }%
25019     }{}%

```



```

25020     \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
25021   }%
25022 }{%
25023 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25024   \Ifstrstart{#1}{sub}{%
25025     \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25026       \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25027     }{%
25028       \expandafter\let
25029       \csname scr@tso@#1@rightindent\expandafter\endcsname
25030       \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25031     }%
25032   }{%
25033     \namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
25034   }%
25035 }{%
25036 \@ifundefined{scr@tso@#1@indent}{%
25037   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25038   \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25039   \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25040   \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25041     \scr@ifundefinedorrelax{l@chapter}{%
25042       \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25043         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25044           \Ifstr{#1}{subsubsection}{%
25045             \@namedef{scr@tso@#1@indent}{3.8em}%
25046           }{%
25047             \Ifstr{#1}{paragraph}{%
25048               \@namedef{scr@tso@#1@indent}{7em}%
25049             }{%
25050               \Ifstr{#1}{subparagraph}{%
25051                 \@namedef{scr@tso@#1@indent}{10em}%
25052               }{%
25053                 }%
25054               }%
25055             }%
25056           }%
25057         }%
25058       }{%
25059         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25060         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25061         \Ifstr{#1}{subsubsection}{%
25062           \@namedef{scr@tso@#1@indent}{7.0em}%
25063         }{%
25064           \Ifstr{#1}{paragraph}{%
25065             \@namedef{scr@tso@#1@indent}{10em}%
25066           }{%
25067             \Ifstr{#1}{subparagraph}{%
25068               \@namedef{scr@tso@#1@indent}{12em}%
25069             }{%
25070               }%
25071             }%
25072           }%
25073         }%

```



```

25074         }%
25075     }%
25076 }%
25077     }%
25078 }%
25079     }%
25080 }{}%
25081 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25082     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25083         \Ifstrstart{#1}{sub}{%
25084             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
25085             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25086                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25087                     +.9em%
25088                 \relax
25089             }%
25090         }%
25091     }{}%
25092 }{%
25093     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25094 }%
25095 }{}%
25096 \@ifundefined{scr@tso@#1@numwidth}{%
25097     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25098     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25099     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25100     \scr@ifundefinedorrelax{chapter}{%
25101         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25102         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25103         \Ifstr{#1}{subsubsection}{%
25104             \@namedef{scr@tso@#1@numwidth}{3.2em}%
25105         }{%
25106             \Ifstr{#1}{paragraph}{%
25107                 \@namedef{scr@tso@#1@numwidth}{4.1em}%
25108             }{%
25109                 \Ifstr{#1}{subparagraph}{%
25110                     \@namedef{scr@tso@#1@numwidth}{5em}%
25111                 }{%
25112                     }%
25113                 }%
25114             }%
25115         }%
25116     }%
25117 }{%
25118     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25119     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25120     \Ifstr{#1}{subsubsection}{%
25121         \@namedef{scr@tso@#1@numwidth}{3.1em}%
25122     }{%
25123         \Ifstr{#1}{paragraph}{%
25124             \@namedef{scr@tso@#1@numwidth}{5em}%
25125         }{%
25126             \Ifstr{#1}{subparagraph}{%
25127                 \@namedef{scr@tso@#1@numwidth}{6em}%

```



```

25128         }-%
25129       }-%
25130     }-%
25131   }-%
25132 }-%
25133 }-%
25134 }-%
25135 }-%
25136 }-%
25137 }-%
25138 }{}-%
25139 \expandafter\renewcommand%
25140 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25141 \expandafter\renewcommand%
25142 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25143 \expandafter\renewcommand%
25144 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25145 \ifundefined{scr@tso@#1@beforeskip}{-%
25146   \Ifstr{#1}{part}{-%
25147     \namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25148   }-%
25149   \Ifstr{#1}{chapter}{-%
25150     \namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25151   }-%
25152   \Ifstr{#1}{section}{-%
25153     \scr@ifundefinedorrelax{1}{chapter}{-%
25154       \namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25155     }{}-%
25156   }{}-%
25157 }-%
25158 }-%
25159 \expandafter\renewcommand\expandafter*%
25160 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25161 }{}-%
25162 \ifundefined{scr@dte@#1@maxnumwidth}{-%
25163   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25164   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25165 }{}-%
25166 \renewcommand*{\scr@dte@donumwidth}{-%
25167   \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25168 \expandafter\renewcommand\expandafter*%
25169 \csname scr@tso@#1@numsep\endcsname{.4em}%
25170 \expandafter\renewcommand%
25171 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25172 \Ifstr{#1}{part}{-%
25173   \expandafter\providecommand%
25174   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25175 }-%
25176   \Ifstr{#1}{chapter}{-%
25177     \expandafter\providecommand%
25178     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25179   }-%
25180   \scr@ifundefinedorrelax{1}{chapter}{-%
25181     \Ifstr{#1}{section}{-%

```




```

25182         \expandafter\providecommand%
25183         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25184     }{}%
25185 }{}%
25186     \expandafter\providecommand%
25187     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25188 }%
25189 }%
25190 \expandafter\renewcommand
25191 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25192 \@ifundefined{scr@tso@#1@linefill}{%
25193     \Ifstr{#1}{part}{%
25194         \@namedef{scr@tso@#1@linefill}{\hfill}%
25195     }{%
25196         \Ifstr{#1}{chapter}{%
25197             \@namedef{scr@tso@#1@linefill}{\hfill}%
25198         }{%
25199             \scr@ifundefinedorrelax{1@chapter}{%
25200                 \Ifstr{#1}{section}{%
25201                     \@namedef{scr@tso@#1@linefill}{\hfill}%
25202                 }{}%
25203             }{}%
25204         }%
25205         \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25206     }%
25207 }%
25208 }{}%
25209 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25210 \Ifstr{#1}{part}{%
25211     \expandafter\providecommand%
25212     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25213 }{}%
25214 \Ifstr{#1}{chapter}{%
25215     \expandafter\providecommand%
25216     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25217 }{}%
25218 \scr@ifundefinedorrelax{1@chapter}{%
25219     \Ifstr{#1}{section}{%
25220         \expandafter\providecommand%
25221         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25222     }{}%
25223 }{}%
25224 \expandafter\providecommand%
25225 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25226     {\normalfont\normalcolor ##1}}%
25227 }%
25228 }%
25229 \expandafter\renewcommand%
25230 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25231     \hb@xt@\@nameuse{scr@dte@pagenumberwidth}{\hfil ##1}}%
25232 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25233 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25234 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25235     \Ifstrstart{#1}{sub}{%

```



```

25236     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25237         \scr@dte@nosub{#1}%
25238     }%
25239 }{%
25240     \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25241 }%
25242 }{%
25243 }]{%
25244 \scr@dte@tocline{#1}{##1}{##2}%
25245 }
25246
25247 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25248 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25249     {\normalfont\normalcolor #1}%
25250 }%
25251 }{}
25252
25253 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25254 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25255     {\normalfont\normalcolor #1}%
25256 }%
25257 }{}
25258

```

158 File tocstyle-xetex-bidi.def

```

25259 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25260 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25261 \let\numberline\tocstyle@numberline
25262 \ifnum #1>\c@tocdepth \else
25263 \if@tocstyle@penalties
25264 \begingroup
25265 \@tempcnta 20010
25266 \advance \@tempcnta by -#1
25267 \ifnum \@tempcnta>\lastpenalty
25268 \aftergroup\penalty\aftergroup\@lowpenalty
25269 \fi
25270 \endgroup
25271 \fi
25272 \edef\tocstyledepth{#1}%
25273 \tocstyle@activate@features
25274 \ifx\tocstyle@feature@entryvskip\relax
25275 \vskip \z@ \@plus.2\p@
25276 \else
25277 \advvspace{\tocstyle@feature@entryvskip}%
25278 \fi
25279 {%
25280 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else
25281 \tocstyle@feature@raggedhook
25282 \@tempdima #3\relax
25283 \@tempdimb #2\relax
25284 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25285 \ifnum #1>\z@\relax
25286 \@tempcnta #1\relax \advance\@tempcnta \m@ne

```



```

25287     \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25288     \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25289         \@tempdimb
25290         \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25291         \advance\@tempdimb
25292         \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25293     \fi
25294 \fi
25295 \fi
25296 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25297 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25298     \ifdim \@tempdimb>
25299         \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25300         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25301             @#1\endcsname{\the\@tempdimb}%
25302     \fi
25303 \else
25304     \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25305         @#1\endcsname{\the\@tempdimb}%
25306 \fi
25307 \iftocstyle@autolength
25308     \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25309         \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25310         \relax
25311     \fi
25312     \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25313         \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25314         \relax
25315     \fi
25316     \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25317     \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25318 \else
25319     \@tempdimb #2\relax
25320     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25321 \fi
25322 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25323     \ifdim \@tempdima>
25324         \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25325         \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25326             @\endcsname{\the\@tempdima}%
25327     \fi
25328 \else
25329     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25330         @\endcsname{\the\@tempdima}%
25331 \fi
25332 \ifcase\tocstyle@indentstyle\relax\else
25333     \@tempdimb \z@
25334     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25335         \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25336         \relax
25337     \fi
25338     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25339     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25340 \fi

```



```

25341 \advance\parindent \@tempdimb\@afterindenttrue
25342 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25343 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25344 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25345 \ifx\tocstyle@feature@parfillskip\relax\else
25346 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25347 \fi
25348 \interlinepenalty\@M
25349 \leavevmode
25350 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25351 \null\nobreak
25352 \iftocstyle@indentnotnumbered\else
25353 \hskip -\if@RTL\rightskip\else\leftskip\fi
25354 \fi
25355 \tocstyle@feature@entryhook
25356 {#4}\nobreak
25357 \ifx\tocstyle@feature@leaders\relax
25358 \leaders\hbox{$\m@th
25359 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25360 \mkern \@dotsep mu$}\hfill
25361 \else
25362 \tocstyle@feature@leaders
25363 \fi
25364 \nobreak
25365 \ifx\tocstyle@feature@pagenumberbox\relax
25366 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25367 \else
25368 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25369 \fi
25370 \par
25371 }%
25372 \iftocstyle@penalties
25373 \bgroup
25374 \@tempcnta 20009
25375 \advance\@tempcnta by -#1
25376 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25377 \reserved@a
25378 \fi
25379 \fi}
25380 \renewcommand*{\tocstyle@numberline}[1]{%
25381 \begingroup
25382 \ifx\tocstyle@feature@spaceafternumber\relax
25383 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
25384 \else
25385 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
25386 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25387 \fi
25388 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25389 \ifdim \@tempdima >
25390 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25391 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25392 @\tocstyledepth\endcsname{\the\@tempdima}%
25393 \fi
25394 \else

```



```

25395     \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25396     @\tocstyledepth\endcsname{\the\@tempdima}%
25397     \fi
25398 \endgroup
25399 \iftocstyle@indentnotnumbered
25400     \hskip -\if@RTL\rightskip\else\leftskip\fi
25401 \fi
25402 \ifcase \tocstyle@indentstyle
25403     \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25404 \or
25405     \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
25406 \else
25407     \ifx\tocstyle@feature@spaceafternumber\relax
25408         \hbox{\tocstyle@@numberline{#1}\enskip}%
25409     \else
25410         \hbox{\tocstyle@@numberline{#1}\hskip
25411             \tocstyle@feature@spaceafternumber\relax}%
25412     \fi
25413 \fi
25414 }
25415 \AtBeginDocument{%
25416     \ifcsname l@part\endcsname
25417         \ifcsname l@chapter\endcsname
25418             \setbox\@tempboxa\vbox{\hsize\maxdimen
25419                 \l@part{\tocstyle@l@define{part}{-1}}{}}%
25420         \else
25421             \setbox\@tempboxa\vbox{\hsize\maxdimen
25422                 \l@part{\tocstyle@l@define{part}{0}}{}}%
25423         \fi
25424     \fi
25425     \ifcsname l@chapter\endcsname
25426         \setbox\@tempboxa\vbox{\hsize\maxdimen
25427             \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25428     \fi
25429     \ifcsname l@section\endcsname
25430         \setbox\@tempboxa\vbox{\hsize\maxdimen
25431             \l@section{\tocstyle@l@define{section}{1}}{}}%
25432     \fi
25433     \ifcsname l@subsection\endcsname
25434         \setbox\@tempboxa\vbox{\hsize\maxdimen
25435             \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25436     \fi
25437     \ifcsname l@subsubsection\endcsname
25438         \setbox\@tempboxa\vbox{\hsize\maxdimen
25439             \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25440     \fi
25441     \ifcsname l@paragraph\endcsname
25442         \setbox\@tempboxa\vbox{\hsize\maxdimen
25443             \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25444     \fi
25445     \ifcsname l@subparagraph\endcsname
25446         \setbox\@tempboxa\vbox{\hsize\maxdimen
25447             \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25448     \fi

```



```

25449 \ifcsname l@table\endcsname
25450   \setbox\@tempboxa\vbox{\hsize\maxdimen
25451     \l@table{\tocstyle@l@define{table}{1}}{}}%
25452 \fi
25453 \ifcsname l@figure\endcsname
25454   \setbox\@tempboxa\vbox{\hsize\maxdimen
25455     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25456 \fi
25457 \def\@tempa#1#2#3#4#5{%
25458   \ifnum #1>\c@tocdepth \else
25459     \vskip \z@ \plus.2\p@
25460     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \toc
25461     \parindent #2\relax\@afterindenttrue
25462     \interlinepenalty\@M
25463     \leavevmode
25464     \@tempdima #3\relax
25465     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25466     {#4}\nobreak
25467     \leaders\hbox{$\m@th
25468       \mkern \dotsep mu\hbox{.}\mkern \dotsep
25469       mu$}\hfill
25470     \nobreak
25471     \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25472     \par}%
25473 \fi}%
25474 \ifx\@dottedtocline\@tempa\else
25475   \tocstyle@macrochangewarning\@dottedtocline
25476 \fi
25477 \let\tocstyle@saved@dottedtocline\@dottedtocline
25478 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25479 \ifx\numberline\@tempa\else
25480   \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25481   \ifx\numberline\@tempa\else
25482     \tocstyle@macrochangewarning\numberline
25483   \fi
25484 \fi
25485 \let\tocstyle@saved@numberline\numberline
25486 }
25487 \renewcommand*{\tocstyle@l@define}[2]{%
25488   \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
25489   \edef\@tempa{%
25490     \noexpand\global\noexpand\let
25491     \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25492     \expandafter\noexpand\csname l@#1\endcsname
25493     \noexpand\gdef
25494     \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25495       \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
25496     \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
25497       \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25498       \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25499     }%
25500   }%
25501 \PackageInfo{tocstyle}{prepare \expandafter\string
25502   \csname l@#1\endcsname\space for redefinition}%

```



```

25503 \@tempa
25504 }

```

159 File todonotes-xetex-bidi.def

```

25505 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25506 \newif\if@bidi@todonotes@textdirection@RTL
25507 \newif\if@bidi@todonotes@figposition@right
25508 \newcommand{\@bidi@todonotes@align}{}%
25509 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25510 \newcommand{\@bidi@todonotes@textdirection}{}%
25511 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25512 \ifcase\@bidi@todonotes@tempb\relax
25513 \@bidi@todonotes@textdirection@RTLtrue
25514 \let\@bidi@todonotes@textdirection\RLE
25515 \or
25516 \@bidi@todonotes@textdirection@RTLfalse
25517 \let\@bidi@todonotes@textdirection\LRE
25518 \fi}
25519 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25520 \ifcase\@bidi@todonotes@tempb\relax
25521 \@bidi@todonotes@figposition@righttrue
25522 \or
25523 \@bidi@todonotes@figposition@rightfalse
25524 \fi}
25525 \if@todonotes@disabled%
25526 \else % \if@todonotes@disabled
25527 \renewcommand{\@todonotes@drawInlineNote}{%
25528 \if@todonotes@dviStyle%
25529 {\par\noindent\begin{tikzpicture}[remember picture]%
25530 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25531 \if@todonotes@authorgiven%
25532 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25533 \else%
25534 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25535 \fi
25536 {\par\noindent\begin{tikzpicture}[remember picture]%
25537 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25538 \else%
25539 {\par\noindent\begin{tikzpicture}[remember picture]%
25540 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25541 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
25542 \if@todonotes@authorgiven%
25543 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}
25544 \else%
25545 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25546 \fi};%
25547 \end{tikzpicture}\par}%
25548 \fi}%
25549 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25550 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25551 \node [coordinate] (inText) {};%
25552 \end{tikzpicture}%
25553 \marginpar[{\% Draw note in left margin

```



```

25554 \@todonotes@drawMarginNote%
25555 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25556 }]{% Draw note in right margin
25557 \@todonotes@drawMarginNote%
25558 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25559 }%
25560 }%
25561 \renewcommand{\@todonotes@drawMarginNote}{%
25562 \if@todonotes@dviStyle%
25563 \begin{tikzpicture}[remember picture]%
25564 \draw node[notestyle] {};%
25565 \end{tikzpicture}}\%
25566 \begin{minipage}{\@todonotes@textwidth}%
25567 \if@todonotes@authorgiven%
25568 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25569 \else%
25570 \@todonotes@sizecommand \@todonotes@text%
25571 \fi%
25572 \end{minipage}}\%
25573 \begin{tikzpicture}[remember picture]%
25574 \draw node[notestyle] (inNote) {};%
25575 \end{tikzpicture}%
25576 \else%
25577 \let\originalHbadness\hbadness%
25578 \hbadness 100000%
25579 \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25580 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25581 \node(X){\vphantom{X}};%
25582 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
25583 \if@todonotes@authorgiven%
25584 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
25585 \node(Y)[below=of X]{};%
25586 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
25587 \else%
25588 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
25589 \fi%
25590 \end{tikzpicture}%
25591 \hbadness \originalHbadness%
25592 \fi}%
25593 \end{tikzpicture}%
25594 \hbadness \originalHbadness%
25595 \fi}%
25596 \fi}%
25597 \renewcommand{\missingfigure}[2] [] {%
25598 \setkeys{todonotes}{#1}%
25599 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25600 \par
25601 \noindent
25602 \begin{tikzpicture}
25603 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25604 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25605 \if@bidi@todonotes@figposition@right%
25606 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25607 \fi%

```




```

25608 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25609     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25610 \if@bidi@todonotes@figposition@right%
25611 \end{scope}
25612 \begin{scope}[xshift=-3.8cm]
25613 \fi%
25614 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25615 \draw (2, -0.3) node[right, text
25616     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25617 \if@bidi@todonotes@figposition@right%
25618 \end{scope}
25619 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25620 \fi%
25621 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
25622 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
25623 \if@bidi@todonotes@figposition@right%
25624 \end{scope}
25625 \fi%
25626 \end{tikzpicture}}\hfill
25627 }% Ending \missingfigure command
25628 \fi % Ending \@todonotes@ifdisabled
25629 \presetkeys%
25630     {todonotes}%
25631     {align=left,%
25632     textdirection=lefttoright,%
25633     figposition=left}{}%

```

160 File wrapfig-xetex-bidi.def

```

25634 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25635 \let\WF@everypar\bidi@n@everypar
25636 \def\WF@putfigmaybe%
25637 \ifinner
25638   \vskip-\parskip \global\WF@floatfalse
25639   \let\pagetotal\maxdimen % kludge flag for "not top of page"
25640 \else % outer page
25641   \@tempdima\pagedepth % save page depth
25642   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25643   \penalty\interlinepenalty % update pg. parameters
25644   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25645   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25646     \global\WF@floatfalse
25647     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25648   \else
25649     \ifdim\WF@size>\@tempdimb
25650       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25651       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25652       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25653       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25654       \advance\dimen@.5\baselineskip
25655       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
25656         \global\WF@floatfalse \pagebreak
25657       \fi
25658     \else % \WF@info{Fits in \the\@tempdimb;}%

```



```

25659         \global\WF@floatfalse
25660     \fi\fi
25661     \vskip\@tempdima\relax % (return erased page depth)
25662 \fi
25663 \noindent
25664 \ifWF@float
25665     \WF@fltmes
25666 \else % putting here;
25667     \WF@info{Put \WF@wfname here:}%
25668     {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25669     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25670     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25671     \hbox to \z@{% llap or rlap depending on {l} or {r}; calc effective width
25672     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25673     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25674     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25675     \xdef\WF@adjlw{\the\@tempdima}%
25676     \ifnum `l=\WF@place % fig on left
25677     \if@RTL%
25678     \kern\@tempdimb \kern\columnsep
25679     \def\@tempa{\hss}% position to left of the gap
25680     \else%
25681     \hss % figure overlaps space to the left
25682     \def\@tempa{\kern\columnsep}% position to left of the gap
25683     \fi%
25684     \else % fig on right
25685     \if@RTL%
25686     \hss
25687     \@tempdima\z@
25688     \def\@tempa{\kern\columnsep}
25689     \else%
25690     \@tempdima\z@ % no left indentation
25691     \kern\@tempdimb \kern\columnsep
25692     \def\@tempa{\hss}% figure overlaps space to the right
25693     \fi%
25694     \fi
25695     \ifdim\@tempdimb<\hsize
25696     \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25697     \xdef\WF@adjtllm{\the\@tempdima}%
25698     \else
25699     \xdef\WF@wrapil{\z@ \the\hsize}%
25700     \xdef\WF@adjlw{\z@}\xdef\WF@adjtllm{\z@}%
25701     \fi
25702     \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25703     \global\advance\WF@size-\intextsep
25704     \else % \WF@info{Putting \WF@wfname in middle of page}%
25705     \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25706     \fi \dp\WF@box\z@ \box\WF@box \@tempa
25707     }% end \hbox to Opt
25708     \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25709 \fi}

```

161 File xcolor-xetex-bidi.def



```

25710 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25711 \long\def\color@b@x#1#2#3%
25712 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25713 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25714 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
25715 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
25716 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25717 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25718 \DeclareRobustCommand\color
25719 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor]}
25720 \def\@undeclaredcolor[#1]#2%
25721 {\begingroup
25722 \let\@cls\@empty
25723 \XC@getmodclr12{#1}{#2}{}%
25724 {\ifblendcolors
25725 \ifx\colorblend\@empty\else
25726 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25727 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
25728 \fi
25729 \fi
25730 \ifconvertcolorsU
25731 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25732 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25733 \fi
25734 \ifmaskcolors
25735 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25736 \let\@mod\XC@mmod
25737 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25738 \expandafter\XC@mul\@tmp,\@clr
25739 \fi
25740 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25741 \expandafter\endgroup\@tmp}}
25742 \def\@declaredcolor#1%
25743 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25744 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25745 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25746 \ifconvertcolorsU\XC@tsttrue\fi
25747 \fi
25748 \ifXC@tst
25749 \expandafter\XC@declaredcolor\else
25750 \expandafter\XC@declaredc@lor\fi}
25751 \def\XC@undeclaredcolor#1#2%
25752 {\@ifundefinedmodel{#1}%
25753 {\c@lor@error{model `#1'}}%
25754 {\@nameuse{color@#1}\current@color{#2}}%
25755 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25756 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25757 \def\XC@declaredc@lor
25758 {\XC@let@Nc\XC@current@color{\string\color@\XC@tmp}%
25759 \edef\current@color{\XC@current@color}%
25760 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25761 \DeclareRobustCommand\bidi@color
25762 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
25763 \def\@bidiundeclaredcolor[#1]#2%

```



```

25764 {\begingroup
25765 \let\@cls\empty
25766 \XC@getmodclr12{#1}{#2}{}%
25767 {\ifblendcolors
25768 \ifx\colorblend\empty\else
25769 \edef\@mix{\expandafter\gobble\colorblend}\@tempwafalse
25770 \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
25771 \fi
25772 \fi
25773 \ifconvertcolorsU
25774 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25775 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25776 \fi
25777 \ifmaskcolors
25778 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25779 \let\@mod\XC@mmod
25780 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25781 \expandafter\XC@mul\@tmp,\@clr
25782 \fi
25783 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25784 \expandafter\endgroup\@tmp}}
25785 \def\XC@bidiundeclaredcolor#1#2%
25786 {\ifundefinedmodel{#1}%
25787 {\color@error{model `#1'}}%
25788 {\@nameuse{color@#1}\currentcolor{#2}}%
25789 \edef\XC@currentcolor{\noexpand\xcolor@{}{\currentcolor}{#1}{#2}}%
25790 \XC@display}}
25791 \def\@bidideclaredcolor#1%
25792 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25793 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25794 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25795 \ifconvertcolorsU\XC@tsttrue\fi
25796 \fi
25797 \if\XC@tst
25798 \expandafter\XC@bidideclaredcolor\else
25799 \expandafter\XC@bidideclaredcolor\fi}
25800 \def\XC@bidideclaredcolor
25801 {\XC@split\XC@tmp
25802 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25803 \expandafter\endgroup\@tmp}
25804 \def\XC@bidideclaredcolor
25805 {\XC@let\Nc\XC@currentcolor{\string\color@\XC@tmp}%
25806 \edef\currentcolor{\XC@currentcolor}%
25807 \XC@display}
25808 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25809 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25810 \def\color@fb@x#1#2#3#4%
25811 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
25812 {\ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25813 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\setcolor\ifhmode

```

162 File latex-xetex-bidi.def

25814 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for



```

25815 \newcommand{\TeXeTOn}{\TeXeTstate\@ne}
25816 \newcommand{\TeXeTOff}{\TeXeTstate\@z}
25817 \TeXeTOn
25818 \def\ bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
25819 \let\ bidi@o@everypar=\everypar
25820 \newtoks\ bidi@n@everypar
25821 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
25822 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
25823 \let\ everypar=\ bidi@n@everypar
25824 \def\ moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25825 \def\ moreRE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25826 \protected\def\ hboxR{\hbox\ bgroup
25827 \everyhbox{%
25828 \aftergroup\egroup
25829 \everyhbox{}}%
25830 \beginR
25831 \@hboxRconstructtrue
25832 \ bgroup
25833 \aftergroup\endR
25834 \aftergroup\egroup
25835 }\hbox}
25836 \protected\def\ hboxL{\hbox\ bgroup
25837 \everyhbox{%
25838 \aftergroup\egroup
25839 \everyhbox{}}%
25840 \beginL
25841 \@hboxRconstructfalse
25842 \ bgroup
25843 \aftergroup\endL
25844 \aftergroup\egroup
25845 }\hbox}
25846 \protected\def\ vboxR{\vbox\ bgroup
25847 \everyvbox{%
25848 \aftergroup\egroup
25849 \everyvbox{}}%
25850 \@RTLtrue
25851 \@RTLtabtrue
25852 \ bgroup
25853 \aftergroup\egroup
25854 }\vbox}
25855 \protected\def\ vboxL{\vbox\ bgroup
25856 \everyvbox{%
25857 \aftergroup\egroup
25858 \everyvbox{}}%
25859 \@RTLfalse
25860 \@RTLtabfalse
25861 \ bgroup
25862 \aftergroup\egroup
25863 }\vbox}
25864 \newcommand*{\ bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
25865 \newcommand*{\ bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
25866 \def\ LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\ bidi@bea
25867 \def\ endLTR{\par}
25868 \newenvironment{LTR*}{\LTR

```



```

25869 \everypar{%
25870   {\setbox\z@\lastbox
25871     \ifvoid\z@
25872       \kern-\parindent
25873     \fi}%
25874   }%
25875 }{\endLTR\@endpetrue}
25876 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\hsize\linewidth\parshape\z@\@bidi@beamer}
25877 \def\endRTL{\par}
25878 \newenvironment{RTL*}{\RTL
25879   \everypar{%
25880     {\setbox\z@\lastbox
25881       \ifvoid\z@
25882         \kern-\parindent
25883       \fi}%
25884     }%
25885 }{\endRTL\@endpetrue}
25886 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@bidi@beamer@ragged}
25887 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@bidi@beamer@ragged}
25888 \let\unsetRTL=\setRTL
25889 \let\unsetLTR=\setLTR
25890 \let\LR=\LRE
25891 \let\RL=\RLE
25892 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25893 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25894 \let\@ensure@RL=\@ensure@RTL
25895 \let\@ensure@LR=\@ensure@LTR
25896 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25897 \let\@ensure@maindir=\@ensure@dir
25898 \def\@@RTL{RTL}
25899 \def\@@LTR{LTR}
25900 \def\save@dir{\if@RTL\gdef\save@@dir{RTL}\else\gdef\save@@dir{LTR}\fi}
25901 \def\reset@dir{\ifx\save@@dir\@@RTL\setRTL\else\ifx\save@@dir\@@LTR\setLTR\else\relax\fi}
25902 \let\@@TeX\TeX
25903 \def\TeX{\@ensure@LTR{\@@TeX}}
25904 \let\@@LaTeX\LaTeX
25905 \def\LaTeX{\@ensure@LTR{\@@LaTeX}}
25906 \let\@@LaTeXe\LaTeXe
25907 \def\LaTeXe{\@ensure@LTR{\@@LaTeXe}}
25908 \long\def\@bidi@reflect@box#1{%
25909   \leavevmode
25910   \setbox\z@\hbox{#1}}%
25911   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
25912   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
25913 }
25914 \if@bidi@csundef{XeTeX}{%
25915   \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25916     \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
25917 }{%
25918   \let\@bidi@orig@XeTeX\XeTeX
25919   \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25920 }
25921 \if@bidi@csundef{XeLaTeX}{%
25922   \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex

```



```

25923 \hbox{\kern-.125em\@bidi@reflect@box{E}\kern-.1667em \LaTeX}}$}}%
25924 }{%
25925 \let\@bidi@orig@XeLaTeX\XeLaTeX
25926 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25927 }
25928 \let\setRL=\setRTL
25929 \let\setLR=\setLTR
25930 \let\unsetRL=\setLTR
25931 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25932 \ApplyPatchIfPackageLoaded{array}{%
25933 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25934 \leavevmode
25935 \hbox \bgroup $\left.\colsep\tabcolsep \let\dollarbegin\begin\group
25936 \let\dollarend\end\group
25937 \@tabarray}
25938 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
25939 }{%
25940 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25941 \leavevmode \hbox \bgroup
25942 $\left.\let\@acol\@tabacol
25943 \let\@classz\@tabclassz
25944 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25945
25946 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
25947 \egroup\right\rbrace $\egroup}}
25948 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25949 \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\,\right\}}
25950 \renewenvironment{RTLcases}{%
25951 \bidi@matrix@check\RTLcases\env@RTLcases
25952 }{%
25953 \endbidi@tabular@RTLcases%
25954 }
25955 \def\env@RTLcases{%
25956 \let\@ifnextchar\bidi@new@ifnextchar
25957 \def\arraystretch{1.2}%
25958 \bidi@tabular@RTLcases{\r{\quad}r{\}}%
25959 }
25960 \def\SepMark#1{\gdef\@SepMark{#1}}
25961 \SepMark{.}
25962 \def\@thmcountersep{\@SepMark}
25963 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemfalse}
25964 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemfalse}
25965 \def\setdefaultbibitems{\@RTLbibitemfalse\@LTRbibitemfalse}
25966 \newcommand*\bidi@thebibliography@font@hook{}
25967 \def\list#1#2{%
25968 \ifnum \@listdepth >5\relax
25969 \toodeep
25970 \else
25971 \global\advance\@listdepth\@ne
25972 \fi
25973 \rightmargin\z@
25974 \listparindent\z@
25975 \itemindent\z@
25976 \csname @list\romannumeral\the\@listdepth\endcsname

```



```

25977 \def\@itemlabel{#1}%
25978 \let\makelabel\@mklab
25979 \@nmbriistfalse
25980 #2\relax
25981 \@trivlist
25982 \parskip\parsep
25983 \parindent\listparindent
25984 \advance\linewidth -\rightmargin
25985 \advance\linewidth -\leftmargin
25986 \if@bidi@list@minipage@parbox
25987 \if@RTL
25988 \advance\@totalleftmargin \leftmargin
25989 \else
25990 \advance\@totalleftmargin \rightmargin
25991 \fi
25992 \else
25993 \if@hboxRconstruct
25994 \if@bidi@list@minipage@parbox@not@nob
25995 \if@RTL
25996 \advance\@totalleftmargin \rightmargin
25997 \else
25998 \advance\@totalleftmargin \leftmargin
25999 \fi
26000 \else
26001 \if@RTL
26002 \advance\@totalleftmargin \leftmargin
26003 \else
26004 \advance\@totalleftmargin \rightmargin
26005 \fi\fi
26006 \else
26007 \if@RTL
26008 \advance\@totalleftmargin \rightmargin
26009 \else
26010 \advance\@totalleftmargin \leftmargin
26011 \fi\fi\fi
26012 \parshape \@ne \@totalleftmargin \linewidth
26013 \ignorespaces}
26014 \long\def\@iiiparbox#1#2[#3]#4#5{%
26015 \leavevmode
26016 \@pboxswfalse
26017 \if@hboxRconstruct
26018 \@bidi@list@minipage@parbox@not@nobtrue
26019 \fi
26020 \if@RTL
26021 \ifx#1t%
26022 \@bidi@list@minipage@parboxtrue
26023 \else
26024 \ifx#1b%
26025 \@bidi@list@minipage@parboxtrue
26026 \fi
26027 \fi
26028 \fi
26029 \setlength\@tempdima{#4}%
26030 \@begin@tempboxa\vbox{\hspace\@tempdima\@parboxrestore#5\@par}%

```




```

26031 \ifx\relax#2\else
26032 \setlength\@tempdimb{#2}%
26033 \edef\@parboxto{to\the\@tempdimb}%
26034 \fi
26035 \if#1b\vbox
26036 \else\if #1t\vtop
26037 \else\ifmmode\vcenter
26038 \else\@pboxswtrue $\vcenter
26039 \fi\fi\fi
26040 \@parboxto{\let\hss\vss\let\unhbox\unvbox
26041 \csname bm@#3\endcsname}%
26042 \if@pboxsw \m@th$\fi
26043 \@end@tempboxa}
26044 \newenvironment{LTRitems}
26045 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26046 \if@bidi@list@minipage@parbox
26047 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26048 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26049 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26050 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26051 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26052 \ignorespaces}{\vskip\z@}
26053 \newenvironment{RTLitems}
26054 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26055 \if@bidi@list@minipage@parbox
26056 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26057 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26058 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26059 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26060 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26061 \ignorespaces}{\vskip\z@}
26062 \newenvironment{LTRbibitems}
26063 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26064 \if@bidi@list@minipage@parbox
26065 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26066 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26067 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26068 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26069 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26070 \ignorespaces}{\vskip\z@}
26071 \newenvironment{RTLbibitems}
26072 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26073 \if@bidi@list@minipage@parbox
26074 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26075 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26076 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26077 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26078 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26079 \ignorespaces}{\vskip\z@}
26080 \def\raggedright{%
26081 \let\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26082 \leftskip\z@skip
26083 \parindent\z@\parfillskip\z@skip}
26084 \let\@bidi@orig@raggedleft\raggedleft

```



```

26085 \let\bidi@orig@raggedright\raggedright
26086 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@hboxRco
26087 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@hboxRco
26088 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26089 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26090 \DeclareRobustCommand\centerline[1]{%
26091 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26092 \else\@@line{\hss#1\hss}\fi}
26093 \def\bidi@orig@leftline#1{%
26094 \if@RTL\@@line{\beginR#1\endR\hss}
26095 \else\@@line{#1\hss}\fi}
26096 \def\bidi@orig@rightline#1{%
26097 \if@RTL\@@line{\hss\beginR#1\endR}
26098 \else\@@line{\hss#1}\fi}
26099 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@lef
26100 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@rig
26101 \DeclareRobustCommand\bidirlap[1]{\hbext@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26102 \DeclareRobustCommand\bidillap[1]{\hbext@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26103 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
26104 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26105 \def\narrower{%
26106 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26107 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26108 \DeclareRobustCommand\underline[1]{%
26109 \relax
26110 \ifmmode\@@underline{#1}%
26111 \else
26112 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26113 \else
26114 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26115 \if@compatibility
26116 \let\undertext=\underline
26117 \fi
26118 \def\@tabular{%
26119 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26120 $\let\@acol\@tabacol
26121 \let\@classz\@tabclassz
26122 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26123 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
26124 \egroup $\if@RTLtab\endR\fi\egroup}
26125 \expandafter \let \csname endtabular*\endcsname = \endtabular
26126 \def\@array[#1]#2{%
26127 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26128 \bgroup
26129 \setbox\@arstrutbox\hbox{%
26130 \vrule \@height\arraystretch\ht\strutbox
26131 \@depth\arraystretch \dp\strutbox
26132 \@width\z@}%
26133 \mkpream{#2}%
26134 \edef\@preamble{%
26135 \ialign \noexpand\@halignto
26136 \bgroup \@arstrut \@preamble \tabskip\z@skip \crr}%
26137 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26138 \let\@tabularnewline\%

```



```

26139 \let\par\@empty
26140 \let\@sharp##%
26141 \set@typeset@protect
26142 \lineskip\z@skip\baselineskip\z@skip
26143 \ifhmode \@preamerr\z@ \@par\fi
26144 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26145 \@preamble}
26146 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26147 \let\@classiv\@arrayclassiv
26148 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26149 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26150 \ifnum \@lastchclass=3 5 \else
26151 \z@ \if #1c\@chnum \z@ \else
26152 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26153 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26154 \@chclass \if #1|\@ne \else
26155 \if #1@\tw@ \else
26156 \if #1p3 \else \z@ \@preamerr 0\fi
26157 \fi \fi \fi \fi \fi \fi
26158 \fi}
26159 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26160 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26161 \def\bm@t{\unhbox\@tempboxa\hss}
26162 \def\bm@b{\hss\unhbox\@tempboxa}
26163 \def\@dottedtocline#1#2#3#4#5{%
26164 \ifnum #1>\c@tocdepth \else
26165 \vskip \z@ \@plus.2\p@
26166 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@ocrma
26167 \parindent #2\relax\@afterindenttrue
26168 \interlinepenalty\@M
26169 \leavevmode
26170 \@tempdima #3\relax
26171 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
26172 {#4}\nobreak
26173 \leaders\hbox{\$m@th
26174 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26175 mu$}\hfill
26176 \nobreak
26177 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26178 \par}%
26179 \fi}
26180
26181 \newcount\@bidi@column@check@number
26182
26183 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
26184
26185 \def\@bidi@set@column@status#1#2{%
26186 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
26187
26188 \if@twocolumn
26189 \newcommand\DetectColumn[3][1]{%
26190 \ifx\@bidi@firstcolumn@status@write\relax
26191 \PackageError{bidi}%
26192 {Option 'DetectColumn' not selected}%

```



```

26193     {\string\DetectColumn\space
26194     requires the use of the 'DetectColumn'
26195     option on the package}%
26196 \fi
26197 \global\advance\ bidi@column@check@number \@ne
26198 \edef\ bidi@column@type{\expandafter\ifx
26199     \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26200     0\else
26201     \csname bidi@column-\the\ bidi@column@check@number\endcsname
26202     \fi}%
26203 \ifcase \ bidi@column@type\relax
26204     \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
26205 \or
26206     #2% % 1 First column
26207 \or
26208     #3% % 2 Second (Last column)
26209 \else
26210     \ERROR
26211 \fi
26212 \edef\next{\write\@auxout
26213     {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}%
26214     {\ bidi@column@type}}}%
26215 \next
26216 }
26217
26218 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
26219     \ifnum #2=\ bidi@current@column@status\else
26220     \@tempwattrue
26221     \fi}%
26222 }
26223 \fi
26224
26225 \def\RTL@outputdblcol{%
26226     \if@firstcolumn
26227     \global\@firstcolumnfalse
26228     \global\setbox\@leftcolumn\copy\@outputbox
26229     \splitmaxdepth\maxdimen
26230     \vbadness\maxdimen
26231     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26232     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26233     \toks@\expandafter{\topmark}%
26234     \xdef\@firstcoltopmark{\the\toks@}%
26235     \toks@\expandafter{\splitfirstmark}%
26236     \xdef\@firstcolfirstmark{\the\toks@}%
26237     \ifx\@firstcolfirstmark\@empty
26238     \global\let\@setmarks\relax
26239     \else
26240     \gdef\@setmarks{%
26241     \let\firstmark\@firstcolfirstmark
26242     \let\topmark\@firstcoltopmark}%
26243     \fi
26244     \else
26245     \global\@firstcolumntrue
26246     \setbox\@outputbox\vbox{%

```



```

26247 \hb@xt@\textwidth{%
26248 \hskip \columnwidth
26249 \hfil
26250 {\normalcolor\vrule \@width\columnseprule}%
26251 \hfil
26252 \hb@xt@\columnwidth{%
26253 \bidi@firstcolumn@status@write%
26254 \box\@leftcolumn \hss}%
26255 \hskip -\textwidth
26256 \hb@xt@\columnwidth{%
26257 \bidi@lastcolumn@status@write%
26258 \box\@outputbox \hss}%
26259 \hskip \columnsep
26260 \hskip \columnwidth }%
26261 \@combinedblfloats
26262 \@setmarks
26263 \@outputpage
26264 \begingroup
26265 \@dblfloatplacement
26266 \@startdblcolumn
26267 \@whiles\if@colmade \fi{\@outputpage
26268 \@startdblcolumn}%
26269 \endgroup
26270 \fi}%
26271
26272 \def\LTR@outputdblcol{%
26273 \if@firstcolumn
26274 \global\@firstcolumnfalse
26275 \global\setbox\@leftcolumn\copy\@outputbox
26276 \splitmaxdepth\maxdimen
26277 \vbadness\maxdimen
26278 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26279 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26280 \toks@\expandafter{\topmark}%
26281 \xdef\@firstcoltopmark{\the\toks@}%
26282 \toks@\expandafter{\splitfirstmark}%
26283 \xdef\@firstcolfirstmark{\the\toks@}%
26284 \ifx\@firstcolfirstmark\@empty
26285 \global\let\@setmarks\relax
26286 \else
26287 \gdef\@setmarks{%
26288 \let\firstmark\@firstcolfirstmark
26289 \let\topmark\@firstcoltopmark}%
26290 \fi
26291 \else
26292 \global\@firstcolumntrue
26293 \setbox\@outputbox\vbox{%
26294 \hb@xt@\textwidth{%
26295 \hb@xt@\columnwidth{%
26296 \bidi@firstcolumn@status@write%
26297 \box\@leftcolumn \hss}%
26298 \hfil
26299 {\normalcolor\vrule \@width\columnseprule}%
26300 \hfil

```



```

26301     \hb@xt@\columnwidth{%
26302     \bidi@lastcolumn@status@write%
26303     \box\@outputbox \hss}}}%
26304 \@combinedblfloats
26305 \setmarks
26306 \@outputpage
26307 \begingroup
26308 \@dblfloatplacement
26309 \@startdblcolumn
26310 \@whilesw@if@colmade \fi{\@outputpage
26311 \@startdblcolumn}}%
26312 \endgroup
26313 \fi}%
26314
26315
26316 \renewcommand{\@outputdblcol}{\ifRTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26317 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26318 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26319
26320 \bidi@patchcmd\makecol{%
26321 \ifvoid\footins
26322 \setbox\@outputbox \box\@cclv
26323 \else
26324 \setbox\@outputbox \vbox {%
26325 \boxmaxdepth \@maxdepth
26326 \unvbox \@cclv
26327 \vskip \skip\footins
26328 \color@begingroup
26329 \normalcolor
26330 \footnoterule
26331 \unvbox \footins
26332 \color@endgroup
26333 }%
26334 \fi
26335 }{%
26336 \ifvoid\footins
26337 \ifvoid\@bidi@copyins@
26338 \setbox\@outputbox \box\@cclv
26339 \else
26340 \setbox\@outputbox \vbox {%
26341 \boxmaxdepth \@maxdepth
26342 \unvbox \@cclv
26343 \vskip \skip\@bidi@copyins@
26344 \color@begingroup
26345 \normalcolor
26346 \unvbox \@bidi@copyins@
26347 \color@endgroup
26348 }%
26349 \fi
26350 \else
26351 \setbox\@outputbox \vbox {%
26352 \boxmaxdepth \@maxdepth
26353 \unvbox \@cclv
26354 \vskip \skip\footins

```



```

26355     \color@begingroup
26356         \normalcolor
26357         \footnoterule
26358         \unvbox \footins
26359     \color@endgroup
26360     \ifvoid\@bidi@copyins@
26361     \else
26362         \vskip \skip\@bidi@copyins@
26363     \color@begingroup
26364         \normalcolor
26365         \unvbox \@bidi@copyins@
26366     \color@endgroup
26367     \fi
26368 }%
26369 \fi
26370 }{}{}
26371
26372 \def\LTRmarginpar{%
26373     \ifhmode
26374         \@bsphack
26375         \@floatpenalty -\@Mii
26376     \else
26377         \@floatpenalty-\@Miii
26378     \fi
26379     \ifinner
26380         \@parmoderr
26381         \@floatpenalty\z@
26382     \else
26383         \@next\@currbox\@freelist{}{}%
26384         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26385         {\@floatpenalty\z@
26386         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26387     \fi
26388     \ifnextchar [\@LTRxmpar\@LTRympar]
26389 \long\def\@LTRxmpar[#1]#2{%
26390     \@LTRsavemarbox\@marbox{#1}%
26391     \@LTRsavemarbox\@currbox{#2}%
26392     \@xympar}
26393 \long\def\@LTRympar#1{%
26394     \@LTRsavemarbox\@marbox{#1}%
26395     \global\setbox\@currbox\copy\@marbox
26396     \@xympar}
26397 \long\def \@LTRsavemarbox #1#2{%
26398     \global\setbox #1%
26399         \color@vbox
26400         \vtop{%
26401             \hsize\marginparwidth
26402             \@parboxrestore
26403             \@LTRmarginparreset
26404             #2%
26405             \@minipagefalse
26406             \outer@nobreak
26407         }%
26408     \color@endbox

```



```

26409 }
26410 \def \LTRmarginparreset {%
26411     \reset@font
26412     \normalsize
26413     \@minipagetrue
26414     \everypar{\@minipagefalse\everypar{}\beginL}%
26415 }
26416 \def \RTLmarginpar{%
26417     \ifhmode
26418         \@bsphack
26419         \@floatpenalty -\@Mii
26420     \else
26421         \@floatpenalty-\@Miii
26422     \fi
26423     \ifinner
26424         \@parmoderr
26425         \@floatpenalty\z@
26426     \else
26427         \@next\@currbox\@freelist{}{}%
26428         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26429         {\@floatpenalty\z@
26430         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26431     \fi
26432     \@ifnextchar [\@RTLxmpar\@RTLympar]
26433 \long\def \@RTLxmpar [#1]#2{%
26434     \@RTLSavemarbox\@marbox{#1}%
26435     \@RTLSavemarbox\@currbox{#2}%
26436     \@xympar}
26437 \long\def \@RTLympar#1{%
26438     \@RTLSavemarbox\@marbox{#1}%
26439     \global\setbox\@currbox\copy\@marbox
26440     \@xympar}
26441 \long\def \@RTLSavemarbox #1#2{%
26442     \global\setbox #1%
26443         \color@vbox
26444         \vtop{%
26445             \hsize\marginparwidth
26446             \@parboxrestore
26447             \@RTLmarginparreset
26448             #2%
26449             \@minipagefalse
26450             \outer@nobreak
26451         }%
26452     \color@endbox
26453 }
26454 \def \@RTLmarginparreset {%
26455     \reset@font
26456     \normalsize
26457     \@minipagetrue
26458     \everypar{\@minipagefalse\everypar{}\beginR}%
26459 }
26460 \def \@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26461     \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26462     \if@twocolumn

```




```

26463     \if@firstcolumn \@tempcnta\m@ne \fi
26464 \else
26465     \if@mparswitch
26466         \ifodd\c@page \else\@tempcnta\m@ne \fi
26467     \fi
26468     \if@reversemargin \@tempcnta -\@tempcnta \fi
26469 \fi
26470 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26471 \@tempdima\@mparbottom
26472 \advance\@tempdima -\@pageht
26473 \advance\@tempdima\ht\@marbox
26474 \ifdim\@tempdima >\z@
26475     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26476 \else
26477     \@tempdima\z@
26478 \fi
26479 \global\@mparbottom\@pageht
26480 \global\advance\@mparbottom\@tempdima
26481 \global\advance\@mparbottom\dp\@marbox
26482 \global\advance\@mparbottom\marginparpush
26483 \advance\@tempdima -\ht\@marbox
26484 \global\setbox \@marbox
26485     \vbox {\vskip \@tempdima
26486             \box \@marbox}%
26487 \global \ht\@marbox \z@
26488 \global \dp\@marbox \z@
26489 \kern -\@pagedp
26490 \nointerlineskip
26491 \hb@xt@\columnwidth
26492     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi}
26493     \hskip\columnwidth \hskip\marginparsep
26494     \else
26495         \hskip -\marginparsep \hskip -\marginparwidth
26496     \fi
26497     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\fi\else\endL\fi}
26498 \nointerlineskip
26499 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
26500 \long\def\@ympar#1{%
26501     \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar\@RTLtrue\fi\else\if@LTRmarginpar\@LTRfalse\fi}
26502     \global\setbox\@currbox\copy\@marbox
26503     \@xympar}
26504 \def\setRTLMarginpar{\@RTLMarginpartrue\@LTRmarginparfalse}
26505 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLMarginparfalse}
26506 \def\setdefaultmarginpar{\@RTLMarginparfalse\@LTRmarginparfalse}
26507 \def\@stoplefte{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse}
26508     \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26509 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26510     \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26511     \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26512     \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
26513 \fi}
26514
26515 \newcommand*\@bidi@font@outputpage@{}
26516

```



```

26517 \def\@outputpage{%
26518 \begingroup % the \endgroup is put in by \aftergroup
26519 \let \protect \noexpand
26520 \@resetactivechars
26521 \global\let\@if@newlist@if@newlist
26522 \global\@newlistfalse
26523 \@parboxrestore
26524 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26525 \bidi@beforeoutputpageshipouthook
26526 \shipout \vbox{%
26527 \set@typeset@protect
26528 \aftergroup \endgroup
26529 \aftergroup \set@typeset@protect
26530 % correct? or just restore by ending
26531 % the group?
26532 \if@specialpage
26533 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26534 \fi
26535 \if@twoside
26536 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26537 \ifRTLmain
26538 \let\@themargin\evensidemargin
26539 \else
26540 \let\@themargin\oddsidemargin
26541 \fi
26542 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26543 \ifRTLmain
26544 \let\@themargin\oddsidemargin
26545 \else
26546 \let\@themargin\evensidemargin
26547 \fi
26548 \fi
26549 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26550 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26551 \else %% not @twoside
26552 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26553 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26554 \fi
26555 \reset@font
26556 \normalsize
26557 \bidi@font@@outputpage
26558 \normalsfcodes
26559 \let\label\@gobble
26560 \let\index\@gobble
26561 \let\glossary\@gobble
26562 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26563 \@begindvi
26564 \vskip \topmargin
26565 \moveright\@themargin \vbox {%
26566 \global\let\bidi@BeforeHeader\@firstofone
26567 \bidi@beforeheaderhook
26568 \setbox\@tempboxa \vbox to\headheight{%
26569 \vfil
26570 \color@hbox

```



```

26571         \normalcolor
26572         \hb@xt@\textwidth{\if@RTLmain@RTLtrue\beginR\else@RTLfalse\beginL\fi\@thehead\if@
26573         \color@endbox
26574         }%                               %% 22 Feb 87
26575     \dp\@tempboxa \z@
26576     \box\@tempboxa
26577     \vskip \headsep
26578     \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
26579     \bidi@beforeoutputboxoutputpagehook
26580     \box\@outputbox
26581     \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
26582     \bidi@afteroutputboxoutputpagehook
26583     \global\let\@bidi@BeforeFooter\@firstofone
26584     \bidi@beforefooterhook
26585     \baselineskip \footskip
26586     \color@hbox
26587     \normalcolor
26588     \hb@xt@\textwidth{\if@RTLmain@RTLtrue\beginR\else@RTLfalse\beginL\fi\@thefoot\if@
26589     \color@endbox
26590     \global\let\@bidi@AfterFooter\@firstofone
26591     \bidi@afterfooterhook
26592     }%
26593     }%
26594     \global\let\@bidi@AfterOutputPageShipOut\@firstofone
26595     \bidi@afteroutputpageshipouthook
26596     \global\let\if@newlist\@if@newlist
26597     \global \colht \textheight
26598     \stepcounter{page}%
26599     \let\firstmark\botmark
26600     \global\let\@bidi@AtEndOutputPage\@firstofone
26601     \bidi@atendoutputpagehook
26602 }
26603 \long\def\@makecaption#1#2{%
26604     \vskip\abovecaptionskip
26605     \sbox\@tempboxa{#1: #2}%
26606     \ifdim \wd\@tempboxa >\hsize
26607         \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26608     \else
26609         \global \@minipagefalse
26610         \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26611     \fi
26612     \vskip\belowcaptionskip}
26613 \let\@bidi@samed@eqno=\eqno
26614 \let\@bidi@samed@leqno=\leqno
26615 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@leqno \else \@bidi@samed@eqno \fi}
26616 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@eqno \else \@bidi@samed@leqno \fi}
26617 \ApplyPatchIfPackageLoadedF{amsmath}{
26618 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26619 }
26620 \input{footnote-xetex-bidi.def}
26621 \if@twocolumn
26622     \let\autofooterule\relax
26623     \let\leftfootnoterule\relax
26624     \let\rightfootnoterule\relax

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26625 \textwidthfootnoterule
26626 \fi
26627 \if@bidi@csundef{@idxitem}{-}{%
26628 \renewcommand@{idxitem}{\par\hangindent \if@RTL-\fi40\p@}%
26629 }
26630
26631 \ApplyPatchToClassesIfPackageLoadedF{%
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26633 report %
26634 }{flowfram}
26635
26636 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26637
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26639 fleqn, %
26640 leqno%
26641 }[clo]
26642
26643 \ApplyPatchToClasses{%
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26668 }
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26775 todonotes, %
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26777 xcolor, %
26778 xltextra %
26779 }
26780
26781 \ApplyPatchToFiles{%
26782 pgfcorescopes.code, %
26783 pstricks %
26784 }[tex]
26785
26786 \ApplyPatchToFile{tc-xetex}

```



163 File `xltxtra-xetex-bidi.def`

```

26787 \ProvidesFile{xltxtra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltxtra package f
26788 \let\@XeTeX\XeTeX
26789 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26790 \let\XeLaTeX\XeLaTeX
26791 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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