

The beamer theme for the typesetting of thesis defense presentations at the Masaryk University in Brno

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Abstract

This document details the design and the implementation of the fibeamer theme for the beamer document class. Included are technical information for anyone who wishes to extend the theme with their own beamer themes as well as information for ordinary users.

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1 Basic usage

In order to use the `fibeamer` theme, insert `\usetheme[options]{fibeamer}` into the preamble of a \LaTeX document that uses the `beamer` document class. Refer to Section 2 for the list of available *options*.

2 Package options

2.1 The fonts option

`\iffibeamer@fonts` The `fonts` option instructs the package to set up the combination of the font families of Carlito, Arev, Iwona, Dsfont, and DejaVu for the typesetting of text and mathematics. This option is enabled by default.

```

1 \ProvidesPackage{fibeamer/beamerthemefibeamer}[\fibeamer@version]
2 \newif\iffibeamer@fonts
3 \DeclareOptionBeamer{fonts}{\fibeamer@fontstrue}
4 \ExecuteOptionsBeamer{fonts}

```

2.2 The nofonts option

The nofonts option instructs the package not to alter the currently set text and mathematics font families.

```
5 \DeclareOptionBeamer{nofonts}{\fibeamer@fontsfalse}
```

2.3 The microtype option

`\iffibeamer@microtype` The microtype option instructs the package to use the microtypographic extensions of modern T_EX engines, such as pdfT_EX, LuaT_EX, and (with only partial support) X_YL^AT_EX. This option is enabled by default.

```
6 \newif\iffibeamer@microtype
7 \DeclareOptionBeamer{microtype}{\fibeamer@microtypetrue}
8 \ExecuteOptionsBeamer{microtype}
```

2.4 The nomicrotype option

The nomicrotype option disables the microtypographic extensions. This may be necessary, if an older T_EX engine, such as T_EX or ϵ -T_EX, is being used.

```
9 \DeclareOptionBeamer{nomicrotype}{\fibeamer@microtypefalse}
```

`\fibeamer@university` 2.5 The university option

The `\langle university=identifier \rangle` option pair sets the identifier of the university, at which the presentation is being written, to *identifier*. The *identifier* is stored within the `\fibeamer@university` macro, whose implicit value is mu. This value corresponds to the Masaryk University in Brno.

```
10 \DeclareOptionBeamer{university}{\def\fibeamer@university{#1}}
11 \ExecuteOptionsBeamer{university=mu}
```

`\fibeamer@faculty` 2.6 The faculty option

The `\langle faculty=identifier \rangle` pair sets the faculty, at which the thesis is being written, to *domain*. The following faculty *identifiers* are recognized at the Masaryk University in Brno:

| The faculty | The <i>domain</i> name |
|---|------------------------|
| The Faculty of Informatics | fi |
| The Faculty of Science | sci |
| The Faculty of Law | law |
| The Faculty of Economics and Administration | econ |
| The Faculty of Social Studies | fss |
| The Faculty of Medicine | med |
| The Faculty of Education | ped |
| The Faculty of Arts | phil |
| The Faculty of Sports Studies | fsps |

The *identifier* is stored within the `\fibeamer@faculty` macro, whose implicit value is `fi`.

```
12 \DeclareOptionBeamer{faculty}{\def\fibeamer@faculty{#1}}
13 \ExecuteOptionsBeamer{faculty=fi}
```

`\fibeamer@locale` 2.7 The locale option

The `{\locale=name}` pair sets the name of the main locale to *name*. The *name* is stored within the `\fibeamer@locale` macro, whose implicit value is the main language of either the `babel` or the `polyglossia` package, or `english`, when undefined.

With regards to the themes of the Masaryk University in Brno, the `\fibeamer@locale` macro is not used; it only provides the default value to the `\fibeamer@logoLocale` macro.

```
14 \def\fibeamer@locale{%
15 % Babel / polyglossia detection
16 \ifx\languagename\undefined%
17 english\else\languagename\fi}
18 \DeclareOptionBeamer{locale}{%
19 \def\fibeamer@locale{#1}}
```

`\fibeamer@logoLocale` 2.8 The logoLocale option

The `{\logoLocale=name}` pair sets the logo file locale to *name*. The *name* is stored within the `\fibeamer@logoLocale` macro, whose implicit value is `\fibeamer@locale`.

```
20 \def\fibeamer@logoLocale{\fibeamer@locale}
21 \DeclareOptionBeamer{logoLocale}{%
22 \def\fibeamer@logoLocale{#1}}
```

`\fibeamer@basePath` 2.9 The basePath option

The `{(basePath=path)}` pair sets the *path* containing the package files. The *path* is prepended to every other path (`\fibeamer@logopath` and `\fibeamer@themePath`)

used by the package. If non-empty, the *path* gets normalized to *path/*. The normalized *path* is stored within the `\fibeamer@basePath` macro, whose implicit value is `fibeamer/`.

```

23 \DeclareOptionBeamer{basePath}{%
24   \ifx\fibeamer@empty#1\fibeamer@empty%
25     \def\fibeamer@basePath{}%
26   \else%
27     \def\fibeamer@basePath{#1/}%
28   \fi}
29 \ExecuteOptionsBeamer{basePath=fibeamer}

```

`\fibeamer@subdir` The `\fibeamer@subdir` macro returns `/` unchanged, coerces `.`, `..`, `/path`, `./path` and `../path` to `./`, `../`, `/path/`, `./path/` and `../path/`, respectively, and prefixes any other *path* with `\fibeamer@basePath`. This macro is used within the definition of the `themePath` and `logoPath` options.

```

30 \def\fibeamer@subdir#1#2#3#4\empty{%
31   \ifx#1\empty%           <empty> -> <basePath>
32     \fibeamer@basePath
33   \else
34     \if#1/%
35       \ifx#2\empty%       / -> /
36       /%
37     \else%               /<path> -> /<path>/
38       #1#2#3#4/%
39     \fi
40   \else
41     \if#1.%
42       \ifx#2\empty%       . -> ./
43       ./%
44     \else
45       \if#2.%
46         \ifx#3\empty%     .. -> ../
47         ../%
48       \else
49         \if#3/%           ../<path> -> ../<path>/
50         ../#4/%
51       \else
52         \fibeamer@basePath#1#2#3#4/%
53       \fi
54     \fi
55   \else
56     \if#2/%               ./<path> -> ./<path>/
57     ./#3#4/%
58   \else
59     \fibeamer@basePath#1#2#3#4/%
60   \fi
61 \fi
62 \fi
63 \else

```

```

64     \fibeamer@basePath#1#2#3#4/%
65     \fi
66     \fi
67     \fi}

```

`\fibeamer@themePath` **2.10 The themePath option**

The `{\themePath=path}` pair sets the *path* containing the theme files. The *path* is normalized using the `\fibeamer@subdir` macro and stored within the `\fibeamer@stylePath` macro, whose implicit value is `\fibeamer@basePath theme/`. By default, this expands to `fibeamer/theme/`.

```

68 \DeclareOptionBeamer{themePath}{%
69   \def\fibeamer@themePath{\fibeamer@subdir#1%
70     \empty\empty\empty\empty}}
71 \ExecuteOptionsBeamer{themePath=theme}

```

`\fibeamer@logoPath` **2.11 The logoPath option**

The `{\logoPath=path}` pair sets the *path* containing the logo files, which is used by the outer themes to load the main logo. The *path* is normalized using the `\fibeamer@subdir` macro and stored within the `\fibeamer@logoPath` macro, whose implicit value is `\fibeamer@basePath` followed by `logo/\fibeamer@university`. By default, this expands to `fibeamer/logo/mu/`.

```

72 \DeclareOptionBeamer{logoPath}{%
73   \def\fibeamer@logoPath{\fibeamer@subdir#1%
74     \empty\empty\empty\empty}}
75 \ExecuteOptionsBeamer{logoPath=logo/\fibeamer@university}

```

`\fibeamer@logo` **2.12 The logo option**

The `{\logo=filename}` pair sets the prefix of the filename of the main logo to *filename*. The *filename* is stored within the `\fibeamer@logo` macro, whose implicit value is `\fibeamer@logoPath` followed by `fibeamer-\fibeamer@university-`
`-\fibeamer@faculty-\fibeamer@logoLocale`. By default, this expands to `fibeamer/`
`/logo/fibeamer-mu-fi-english`.

```

76 \DeclareOptionBeamer{logo}{\def\fibeamer@logo{#1}}
77 \ExecuteOptionsBeamer{%
78   logo=\fibeamer@logoPath fibeamer-\fibeamer@university-%
79     \fibeamer@faculty-\fibeamer@logoLocale}

```

`\fibeamer@fallbackLogo` 2.13 The `fallbackLogo` option

The `\fibeamer@fallbackLogo` macro contains the filename of the logo file to be used, if `\fibeamer@logo` does not exist. The implicit value of the `\fibeamer@fallbackLogo` macro is `\fibeamer@logoPath` followed by `fibeamer-\fibeamer@university\fibeamer@faculty-english`. By default, this expands to `fibeamer/logo/fibeamer-mu-fi-english`.

```
80 \DeclareOptionBeamer{fallbackLogo}{\def\fibeamer@fallbackLogo{#1}}
81 \ExecuteOptionsBeamer{%
82   fallbackLogo=\fibeamer@logoPath fibeamer-\fibeamer@university-%
83   \fibeamer@faculty-english}
```

3 Logic

3.1 Macros

`\fibeamer@require` The `\fibeamer@require{<package>}` macro is used to gracefully load a *package*. Packages that have already been loaded or do not exist are ignored by the macro.

```
84 \def\fibeamer@require#1{\IfFileExists{#1.sty}{%
85   \@ifpackageloaded{#1}{\RequirePackage{#1}}{}}
```

`\fibeamer@requireTheme` The `\fibeamer@requireTheme{<class>}` macro is used to load a *class* of beamer themes. The following packages are loaded, provided they exist:

- `beamerclassthemefibeamer` from the `\fibeamer@themePath` directory – The base theme file. By default, this expands to `fibeamer/theme/beamerclassthemefibeamer`.
- `beamerclassthemefibeamer-\fibeamer@university` from the `\fibeamer@themePath\fibeamer@university/` directory – The university theme file. By default, this expands to `fibeamer/theme/mu/beamerclassthemefibeamer-mu`.
- `beamerclassthemefibeamer-\fibeamer@university-\fibeamer@faculty` from the `\fibeamer@themePath\fibeamer@university/` directory – The faculty theme file. By default, this expands to `fibeamer/theme/mu/beamerclassthemefibeamer-mu-fi`.

```
86 \def\fibeamer@requireTheme#1{%
87   \fibeamer@require{\fibeamer@themePath beamer#1themefibeamer}
88   \fibeamer@require{\fibeamer@themePath\fibeamer@university%
89     /beamer#1themefibeamer-\fibeamer@university}
90   \fibeamer@require{\fibeamer@themePath\fibeamer@university%
91     /beamer#1themefibeamer-\fibeamer@university-\fibeamer@faculty}}
```

`\fibeamer@includeLogo` The `\fibeamer@includeLogo[<options>]` macro includes the main logo into the document. If specified, the *options* are passed to the `\includegraphics` macro. The `\fibeamer@includeLogo` macro requires the `etoolbox` package to function.

```
92 \fibeamer@require{etoolbox}
93 \newcommand\fibeamer@includeLogo[1][{}]{
94   % See <http://tex.stackexchange.com/a/39987/70941>.
```

```

95 \patchcmd{\Gin@ii}% Make ‘\includegraphics’ use ‘@fallbackLogo’.
96 {\begingroup}% <search>
97 {\begingroup\renewcommand{\@latex@error}[2]{%
98   \includegraphics[#1]\fibeamer@fallbackLogo}}% <replace>
99   {}}% <success>
100  {}% <failure>
101  \includegraphics[#1]\fibeamer@logo}}

```

`\fibeamer@patch` The `\fibeamer@patch[versions][patch]` macro expands *patch*, if `\fibeamer@version@number` (defined at the top of the file `beamerthemefibeamer.sty`) matches any of the comma-delimited *versions*. This macro enables the simple deployment of version-targeted patches.

```

102 \def\fibeamer@patch#1#2{%
103   \def\fibeamer@patch@versions{#1}%
104   \def\fibeamer@patch@action{#2}%
105   \def\fibeamer@patch@next##1,{%
106     \def\fibeamer@patch@arg{##1}%
107     \def\fibeamer@patch@relax{\relax}%
108     \ifx\fibeamer@patch@arg\fibeamer@version@number
109       \def\fibeamer@patch@next###1\relax,{}%
110       \expandafter\fibeamer@patch@action
111       \expandafter\fibeamer@patch@next
112     \else\ifx\fibeamer@patch@arg\fibeamer@patch@relax\else
113       \expandafter\expandafter\expandafter\fibeamer@patch@next
114     \fi\fi}%
115   \expandafter\expandafter\expandafter\fibeamer@patch@next
116   \expandafter\fibeamer@patch@versions\expandafter,\relax,}

```

3.2 Main routine

First, the theme processes the options.

```
117 \ProcessOptionsBeamer
```

When the `microtype` option is specified, the `microtype` package gets loaded.

```

118 % Set up the microtypographic extensions
119 \iffibeamer@microtype
120   \RequirePackage{microtype}
121 \fi

```

When the `fonts` option is specified, the following packages will be used by the package to configure the fonts in the presentation mode:

- `ifthen` – This package is used to construct compound conditionals.
- `ifxetex`, `ifluatex` – These packages are used to detect the used \TeX engine.
- `lmodern` – The Latin Modern font family is used as a fallback for missing glyphs.
- `carlito` – The Carlito font family is used as the primary text and math font face.

- arevmath – The Arev Sans math font family is used for various symbols and greek alphabet.
- iwona – The Iwona font family is used for large math symbols.
- dejavu – The DejaVu Sans Mono font family is used for the typesetting of monospaced text.
- setspace – This package is used to adjust the leading to 115 %. Loading this package breaks any top-level footnotes without the [frame] optional parameter specified. This is a known bug.¹
- fontenc – This package is used to set the font encoding to Cork. This package is only used outside the X_YTeX and LuaTeX engines.
- fontspec – This package is used to load fonts. This package is only used with the X_YTeX and LuaTeX engines.

```

122 \mode<presentation>
123 % Set up the fonts
124 \iffbeamer@fonts
125   \RequirePackage{ifthen}
126   \RequirePackage{ifxetex}
127   \RequirePackage{ifluatex}
128   \RequirePackage{lmodern}
129   \RequirePackage[sfdefault,lf]{carlito}
130   \renewcommand*{\oldstylenums}[1]{\carlitoOsF #1}}
131
132   %% Load arev with scaling factor of .85
133   %% See <http://tex.stackexchange.com/a/181240/70941>
134   \DeclareFontFamily{OML}{zavm}{\skewchar\font=127 }
135   \DeclareFontShape{OML}{zavm}{m}{it}{<-> s* [.85] zavmri7m}{}
136   \DeclareFontShape{OML}{zavm}{b}{it}{<-> s* [.85] zavmbi7m}{}
137   \DeclareFontShape{OML}{zavm}{m}{sl}{<-> ssub * zavm/m/it}{}
138   \DeclareFontShape{OML}{zavm}{bx}{it}{<-> ssub * zavm/b/it}{}
139   \DeclareFontShape{OML}{zavm}{b}{sl}{<-> ssub * zavm/b/it}{}
140   \DeclareFontShape{OML}{zavm}{bx}{sl}{<-> ssub * zavm/b/sl}{}
141
142   \AtBeginDocument{
143     \SetSymbolFont{operators} {normal}{OT1}{zavm}{m}{n}
144     \SetSymbolFont{letters} {normal}{OML}{zavm}{m}{it}
145     \SetSymbolFont{symbols} {normal}{OMS}{zavm}{m}{n}
146     \SetSymbolFont{largesymbols}{normal}{OMX}{iwona}{m}{n}
147     \RequirePackage[sans]{dsfont}
148
149     \ifthenelse{\boolean{xetex}\OR\boolean{luatex}}{
150       \RequirePackage{fontspec}
151
152       \setmonofont[Scale=0.85]{DejaVu Sans Mono}

```

¹See <http://tex.stackexchange.com/a/118005/70941>.

```

152   }}
153   \RequirePackage[scaled=0.85]{DejaVuSansMono}
154   \RequirePackage[resetfonts]{cmap}
155   \RequirePackage[T1]{fontenc}
156   }
157   \RequirePackage{setspace}
158   \setstretch{1.15}
159   \fi
160 \mode
161 <all>

```

Finally, the color, font, inner and outer themes of the respective university and faculty will be loaded.

```

162 \fibeamer@requireTheme{color}
163 \fibeamer@requireTheme{font}
164 \fibeamer@requireTheme{inner}
165 \fibeamer@requireTheme{outer}

```

4 Themes

This section contains the combined documentation of all available themes. When creating a new theme file, it is advisable to create one self-contained dtx file, which is then partitioned into locale files via the docstrip tool based on the respective ins file. A macro `\file{filename}` is available for the sectioning of the documentation of various files within the dtx file. For more information about dtx files and the docstrip tool, consult the dtxut, docstrip, doc and ltxdoc manuals.

4.1 Base files

4.1.1 The `theme/mu/beamercolorthemefibeamer-mu.sty` file

This is the base color theme for presentations written at the Masaryk University in Brno.

```

166 \NeedsTeXFormat{LaTeX2e}
167 \ProvidesPackage{fibeamer/theme/mu/%
168   beamercolorthemefibeamer-mu}[2016/05/06]

```

`\darkframes` The `darkframes` environment switches the color definitions to render the enclosed frames in dark colors. This is a dummy definition, which will be overridden by the subsequently loaded color theme in the presentation mode.

```

169 \newenvironment{darkframes}{}{}

```

The rest of the theme will be ignored outside the presentation mode.

```

170 \mode<presentation>

```

The theme loads the following packages, which will be used by the subsequently loaded color theme specific to a faculty:

- listings – This package is used for code listings. The subsequently loaded color theme will specify source code coloring for the package.
- ifthen – This package is used to construct compound conditionals.
- tikz – This package is used to create gradient background for dark slides.

```
171 \RequirePackage{listings}
172 \RequirePackage{ifthen}
173 \RequirePackage{tikz}
```

`\iffibeamer@dark` The `\iffibeamer@dark` conditional will be switched on and off by the subsequently loaded color theme based on whether or not the given frame is being typeset in light or dark colors. This information will be used by outer themes to insert the correct logo into each frame.

```
174 \newif\iffibeamer@dark\fibeamer@darkfalse
```

A frame that is either title or dark, as specified by the value of the `\iffibeamer@dark` conditional, will have a gradient background as specified by the `fibeamer@dark@backgroundInner` and `fibeamer@light@backgroundOuter` colors that shall be defined by the subsequently loaded color theme.

A frame that is neither title nor dark, as specified by the value of the `\iffibeamer@dark` conditional, will have a gradient background as specified by the `fibeamer@light@backgroundInner` and `fibeamer@light@backgroundOuter` colors that shall be defined by the subsequently loaded color theme.

```
175 \defbeamertemplate*{background canvas}{fibeamer}{%
176 \ifthenelse{%
177 \boolean{fibeamer@dark} \OR \c@framenummer=0
178 }{%
179 \begin{tikzpicture}
180 \clip (0,\fibeamer@lengths@clipbottom) rectangle
181 (\paperwidth,\fibeamer@lengths@cliptop);
182 \path [inner color = fibeamer@dark@backgroundInner,
183 outer color = fibeamer@dark@backgroundOuter]
184 (0,0) rectangle (\paperwidth,\paperwidth);
185 \end{tikzpicture}
186 }{%
187 \begin{tikzpicture}
188 \clip (0,\fibeamer@lengths@clipbottom) rectangle
189 (\paperwidth,\fibeamer@lengths@cliptop);
190 \path [inner color = fibeamer@light@backgroundInner,
191 outer color = fibeamer@light@backgroundOuter]
192 (0,0) rectangle (\paperwidth,\paperwidth);
193 \end{tikzpicture}
194 }}
```

The `\qed` symbol inserted at the end of proofs will have the same color as the rest of the proof.

```
195 \setbeamercolor{qed symbol}{%
196 use=block body,
```

```

197 fg=block body.fg,
198 bg=block body.bg}

```

The links can be colored by the subsequently loaded color themes.

```

199 \hypersetup{colorlinks,linkcolor=}
200 \mode
201 <all>

```

4.1.2 The theme/mu/beamerfontthemefibeamer-mu.sty file

This is the base font theme for presentations written at the Masaryk University in Brno. The theme has no effect outside the presentation mode.

```

202 \NeedsTeXFormat{LaTeX2e}
203 \ProvidesPackage{fibeamer/theme/mu/%
204 beamerfontthemefibeamer-mu}[2016/01/12]
205 \mode<presentation>
206 \setbeamerfont{normal text}{size=\normalsize}
207 \setbeamerfont{title}{size=\LARGE, series=\bfseries}
208 \setbeamerfont{subtitle}{parent=normal text, size=\Large}
209 \setbeamerfont{frametitle}{size=\Large}
210 \setbeamerfont{framesubtitle}{size=\large, shape=\itshape}
211 \setbeamerfont{description item}{series=\bfseries}
212 \setbeamerfont{author}{size=\large}
213 \mode
214 <all>

```

4.1.3 The theme/mu/beamerinnerthemefibeamer-mu.sty file

This is the base inner theme for presentations written at the Masaryk University in Brno. The theme has no effect outside the presentation mode.

```

215 \NeedsTeXFormat{LaTeX2e}
216 \ProvidesPackage{fibeamer/theme/mu/%
217 beamerinnerthemefibeamer-mu}[2016/01/14]
218 \mode<presentation>

```

This part of the inner theme defines the design of lists.

```

219 \defbeamertemplate*{itemize item}{fibeamer}{\bullet$}
220 \defbeamertemplate*{itemize subitem}{fibeamer}{\---}
221 \defbeamertemplate*{itemize subsubitem}{fibeamer}{\guillemotright}

```

This part of the inner theme defines the design of bibliography items and citations.

```

222 \defbeamertemplate*{bibliography item}{fibeamer}{\insertbiblabel}
223 \AtBeginDocument{%
224 \let\fibeamer@oldcite\cite
225 \def\cite#1{%
226 \usebeamercolor[fg]{item}%
227 \fibeamer@oldcite{#1}}}

```

This part of the inner theme defines the design of the table of contents.

```

228 \defbeamertemplate*{section in toc}{fibeamer}{%

```

```

229 \usebeamercolor[fg]{item}%
230 \inserttocsectionnumber.%
231 \usebeamercolor[fg]{structure}%
232 \kern1.25ex\inserttocsection\par}
233 \defbeamertemplate*{subsection in toc}{fibeamer}{%
234 \hspace\leftmargini
235 \usebeamercolor[fg]{item}%
236 \inserttocsectionnumber.\inserttocsubsectionnumber%
237 \usebeamercolor[fg]{structure}%
238 \kern1.25ex\inserttocsubsection\par}
239 \defbeamertemplate*{subsubsection in toc}{fibeamer}{%
240 \hspace\leftmargini
241 \hspace\leftmarginii
242 \usebeamercolor[fg]{item}%
243 \inserttocsectionnumber.\inserttocsubsectionnumber.%
244 \inserttocsubsubsectionnumber%
245 \usebeamercolor[fg]{structure}%
246 \kern1.25ex\inserttocsubsubsection\par}
247 \mode
248 <all>

```

4.1.4 The theme/mu/beamerouterthemefibeamer-mu.sty file

This is the base outer theme for presentations written at the Masaryk University in Brno. The theme has no effect outside the presentation mode.

```

249 \NeedsTeXFormat{LaTeX2e}
250 \ProvidesPackage{fibeamer/theme/mu/%
251 beamerouterthemefibeamer-mu}[2016/01/12]
252 \mode<presentation>

```

The theme uses the following packages:

- ifthen – This package is used to construct compound conditionals.
- ifpdf – This package is used to check, whether the document is being typeset in DVI mode. If it is, then the `\pdfpagewidth` and `\pdfpageheight` dimensions are defined, so that positioning in TikZ works correctly.
- tikz – This package is used to position the logo and the frame number on a frame.
- pgfcore – This package is used to draw the dashed line at the title frame.

```

253 \RequirePackage{ifthen}
254 \RequirePackage{ifpdf}
255 \ifpdf\else
256 \@ifundefined{pdfpagewidth}{\newdimen\pdfpagewidth}{}
257 \@ifundefined{pdfpageheight}{\newdimen\pdfpageheight}{}
258 \pdfpagewidth=\paperwidth
259 \pdfpageheight=\paperheight
260 \fi

```

```

261 \RequirePackage{tikz}
262 \RequirePackage{pgfcore}

```

This part of the outer theme defines the geometry of the frames along with other dimensions.

```

263 \newlength\fiameer@lengths@baseunit
264 \fiameer@lengths@baseunit=3.75mm
265 % The footer padding
266 \newlength\fiameer@lengths@footerpad
267 \setlength\fiameer@lengths@footerpad{%
268   \fiameer@lengths@baseunit}
269 % The side margins
270 \newlength\fiameer@lengths@margin
271 \setlength\fiameer@lengths@margin{%
272   3\fiameer@lengths@baseunit}
273 \setbeamersize{
274   text margin left=\fiameer@lengths@margin,
275   text margin right=\fiameer@lengths@margin}
276 % The upper margin
277 \newlength\fiameer@lengths@titleline
278 \setlength\fiameer@lengths@titleline{%
279   3\fiameer@lengths@baseunit}
280 % The background clipping
281 \newlength\fiameer@lengths@clipbottom
282 \setlength\fiameer@lengths@clipbottom\paperwidth
283 \addtolength\fiameer@lengths@clipbottom{-\paperheight}
284 \setlength\fiameer@lengths@clipbottom{%
285   0.5\fiameer@lengths@clipbottom}
286 \newlength\fiameer@lengths@cliptop
287 \setlength\fiameer@lengths@cliptop\paperwidth
288 \addtolength\fiameer@lengths@cliptop{%
289   -\fiameer@lengths@clipbottom}

290 % The logo size
291 \newlength\fiameer@lengths@logowidth
292 \setlength\fiameer@lengths@logowidth{%
293   14\fiameer@lengths@baseunit}
294 \newlength\fiameer@lengths@logoheight
295 \setlength\fiameer@lengths@logoheight{%
296   0.4\fiameer@lengths@logowidth}

```

The outer theme completely culls the bottom navigation.

```

297 \defbeamertemplate*{navigation symbols}{fiameer}{}

```

The outer theme also culls the headline.

```

298 \defbeamertemplate*{headline}{fiameer}{}

```

The frame title.

```

299 \defbeamertemplate*{frametitle}{fiameer}{%
300   \vskip-1em % Align the text with the top border
301   \vskip\fiameer@lengths@titleline

```

```

302 \usebeamercolor[fg]{frametitle}%
303 \usebeamerfont{frametitle}%
304 \insertframetitle\par%
305 \usebeamercolor[fg]{framesubtitle}%
306 \usebeamerfont{framesubtitle}%
307 \insertframesubtitle}

```

The footline contains the frame number. It is flushed right.

```

308 \defbeamertemplate*{footline}{fibeamer}{%
309 \ifnum\c@framenumber=0\else%
310 \begin{tikzpicture}[overlay]
311 \node[anchor=south east,
312 yshift=\fibeamer@lengths@footerpad,
313 xshift=-\fibeamer@lengths@footerpad] at
314 (current page.south east) {
315 \usebeamercolor[fg]{framenumber}%
316 \usebeamerfont{framenumber}%
317 \insertframenumber/\inserttotalframenumber};
318 \end{tikzpicture}
319 \fi}

```

The title frame contains the main logo, the `\title`, the `\subtitle`, and the `\author`.

```

320 \defbeamertemplate*{title page}{fibeamer}{%

321 \begin{darkframes}
322
323 % This is slide 0
324 \setcounter{framenumber}{0}
325
326 % Input the university logo
327 \begin{tikzpicture}[
328 remember picture,
329 overlay,
330 xshift=0.5\fibeamer@lengths@logowidth,
331 yshift=0.5\fibeamer@lengths@logoheight
332 ]
333 \node at (0,0) {
334 \fibeamer@includeLogo[
335 width=\fibeamer@lengths@logowidth,
336 height=\fibeamer@lengths@logoheight
337 ]};
338 \end{tikzpicture}
339
340 % Input the title
341 \usebeamerfont{title}%
342 \usebeamercolor[fg]{title}%
343 \begin{minipage}[b][2\baselineskip][b]{\textwidth}%
344 \raggedright\inserttitle
345 \end{minipage}
346 \vskip-.5\baselineskip
347

```

```

348 % Input the dashed line
349 \begin{pgfpicture}
350   \pgfsetlinewidth{2pt}
351   \pgfsetroundcap
352   \pgfsetdash{{0pt}{4pt}}{0cm}
353
354   \pgfpathmoveto{\pgfpoint{0mm}{0mm}}
355   \pgfpathlineto{\pgfpoint{\textwidth}{0mm}}
356
357   \pgfusepath{stroke}
358 \end{pgfpicture}
359 \vfill

360 % Input the subtitle
361 \usebeamerfont{subtitle}%
362 \usebeamercolor[fg]{subtitle}%
363 \begin{minipage}{\textwidth}
364   \raggedright%
365   \insertsubtitle%
366 \end{minipage}\vskip.25\baselineskip
367
368 % Input the author's name
369 \usebeamerfont{author}%
370 \usebeamercolor[fg]{author}%
371 \begin{minipage}{\textwidth}
372   \raggedright%
373   \insertauthor%
374 \end{minipage}
375 \end{darkframes}}
376
377 \mode
378 <all>

```

4.2 The Faculty of Informatics

4.2.1 The theme/mu/beamercolorthemefibeamer-fi.sty file

This is the color theme for presentations written at the Faculty of Informatics at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

379 \NeedsTeXFormat{LaTeX2e}
380 \ProvidesPackage{fibeamer/theme/mu/%
381   beamercolorthemefibeamer-mu-fi}[2016/06/16]
382 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

383 \definecolor{fibeamer@black}{HTML}{2B2E34}

```



```

384 \definecolor{fibeamer@white}{HTML}{F3EEE1}
385 \definecolor{fibeamer@yellow}{HTML}{FFD564}
386 \definecolor{fibeamer@orange}{HTML}{FF5500}
387 \colorlet{fibeamer@lightGray}{white!80!fibeamer@black}
388 \colorlet{fibeamer@gray}{white!35!fibeamer@black}
389 \colorlet{fibeamer@darkGray}{white!20!fibeamer@black}
390 \definecolor{fibeamer@blue}{HTML}{3333B3}
391 \definecolor{fibeamer@lightRed}{HTML}{FF8E6B}
392 \colorlet{fibeamer@darkRed}{red!80!fibeamer@white}

393 %% Background gradients
394 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@black}
395 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@black}
396 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
397 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

398 \renewenvironment{darkframes}{%
399   \begingroup
400     \fibeamer@darktrue
401     %% Structures
402     \setbeamercolor*{frametitle}{fg=fibeamer@yellow}
403     \setbeamercolor*{framesubtitle}{fg=fibeamer@lightGray}
404     %% Text
405     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@black}
406     \setbeamercolor*{structure}{fg=white, bg=fibeamer@black}

407     \setbeamercolor*{alerted text}{fg=fibeamer@lightRed}

408     %% Items, footnotes and links
409     \setbeamercolor*{item}{fg=fibeamer@yellow}
410     \setbeamercolor*{footnote mark}{fg=fibeamer@yellow}
411     \hypersetup{urlcolor=fibeamer@yellow, citecolor=fibeamer@yellow}
412     %% Blocks
413     \setbeamercolor*{block title}{%
414       fg=fibeamer@black, bg=fibeamer@yellow}
415     \setbeamercolor*{block title example}{%
416       fg=fibeamer@yellow, bg=fibeamer@darkGray}
417     \setbeamercolor*{block title alerted}{%
418       fg=fibeamer@black, bg=fibeamer@lightRed}
419     \setbeamercolor*{block body}{%
420       fg=fibeamer@white,
421       bg=fibeamer@darkGray}
422     \usebeamercolor*{normal text}
423     % Code listings
424     \lstset{%
425       commentstyle=\color{green!30!white},
426       keywordstyle=\color{blue!30!white},
427       stringstyle=\color{fibeamer@orange!30!white}}
428   }{%

```

```
429 \endgroup}
```

Outside the darkframes environment, the light theme is used.

```
430 %% Structures
431 \setbeamercolor{frametitle}{fg=fibeamer@blue}
432 \setbeamercolor{framesubtitle}{fg=fibeamer@gray}
433 %% Text
434 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
435 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

436 \setbeamercolor{alerted text}{fg=red}
437 \addtobeamertemplate{block begin}{%
438   \iffibeamer@dark\else % alerted text in plain blocks at light slides
439     \setbeamercolor{alerted text}{fg=fibeamer@darkRed}
440   \fi{}}

441 %% Items and links
442 \setbeamercolor{item}{fg=fibeamer@blue}
443 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
444 \hypersetup{urlcolor=fibeamer@blue, citecolor=fibeamer@blue}
445 %% Blocks
446 \setbeamercolor{block title}{%
447   fg=fibeamer@black, bg=fibeamer@yellow}
448 \setbeamercolor{block title example}{%
449   fg=fibeamer@yellow, bg=fibeamer@black}
450 \setbeamercolor{block title alerted}{%
451   fg=fibeamer@white, bg=red}
452 \setbeamercolor{block body}{%
453   fg=fibeamer@white, bg=fibeamer@black}
454 %% Title
455 \setbeamercolor{title}{fg=fibeamer@yellow, bg=fibeamer@black}

456 \setbeamercolor{subtitle}{fg=fibeamer@white, bg=fibeamer@black}
457 \setbeamercolor{author}{fg=fibeamer@lightGray, bg=fibeamer@black}
458 % Code listings
459 \lstset{%
460   basicstyle=\footnotesize\ttfamily,
461   breakatwhitespace=false,
462   breaklines=true,
463   commentstyle=\color{green!60!black},
464   extendedchars=true,
465   keywordstyle=\color{fibeamer@blue},
466   showspaces=false,
467   showstringspaces=false,
468   showtabs=false,
469   stringstyle=\color{violet}}
470 \mode
471 <all>
```

4.3 The Faculty of Science

4.3.1 The theme/mu/beamercolorthemefibeamer-sci.sty file

This is the color theme for presentations written at the Faculty of Science at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```
472 \NeedsTeXFormat{LaTeX2e}
473 \ProvidesPackage{fibeamer/theme/mu/%
474 beamercolorthemefibeamer-mu-sci}[2016/05/06]
475 \mode<presentation>
```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```
476 \definecolor{fibeamer@black}{HTML}{000000}
477 \definecolor{fibeamer@white}{HTML}{FFFFFF}
478 \definecolor{fibeamer@green}{HTML}{139632}
479 \definecolor{fibeamer@gray}{HTML}{999999}
480 \colorlet{fibeamer@lightGreen}{fibeamer@green!30!fibeamer@white}
481 \colorlet{fibeamer@darkGreen}{fibeamer@green!60!fibeamer@black}
482 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
483 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkGreen}

484 %% Background gradients
485 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkGreen}
486 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkGreen}
487 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
488 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
489 \renewenvironment{darkframes}{%
490   \begingroup
491   \iffibeamer@darktrue
492   %% Structures
493   \setbeamercolor*{frametitle}{fg=fibeamer@lightGreen}
494   \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
495   %% Text
496   \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@green}
497   \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@green}

498   \setbeamercolor*{alerted text}{%
499     fg=fibeamer@lightOrange}

500   %% Items, footnotes and links
501   \setbeamercolor*{item}{fg=fibeamer@lightGreen}
502   \setbeamercolor*{footnote mark}{fg=fibeamer@lightGreen}
503   \hypersetup{urlcolor=fibeamer@lightGreen, citecolor=fibeamer@lightGreen}
504   %% Blocks
```

```

505 \setbeamercolor*{block title}{%
506 fg=fibeamer@white, bg=fibeamer@green!60!fibeamer@white}
507 \setbeamercolor*{block title example}{%
508 fg=fibeamer@white, bg=fibeamer@green!60!fibeamer@white}
509 \setbeamercolor*{block title alerted}{%
510 fg=fibeamer@darkGreen, bg=fibeamer@lightOrange}
511 \setbeamercolor*{block body}{%
512 fg=fibeamer@green,
513 bg=fibeamer@gray!15!fibeamer@white}
514 \usebeamercolor*{normal text}
515 % Code listings
516 \lstset{%
517 commentstyle=\color{green!30!fibeamer@white},
518 keywordstyle=\color{blue!30!fibeamer@white},
519 stringstyle=\color{red!30!fibeamer@white}}
520 }{%
521 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

522 %% Structures
523 \setbeamercolor{frametitle}{fg=fibeamer@green}
524 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
525 %% Text
526 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
527 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

528 \setbeamercolor{alerted text}{fg=red}
529 \addtobeamertemplate{block begin}{%
530 \iffibeamer@dark % alerted text in plain block at dark slides
531 \setbeamercolor{alerted text}{fg=fibeamer@orange}%
532 \fi}{}

533 %% Items, footnotes and links
534 \setbeamercolor*{item}{fg=fibeamer@green}
535 \setbeamercolor*{footnote mark}{fg=fibeamer@green}
536 \hypersetup{urlcolor=fibeamer@green, citecolor=fibeamer@green}
537 %% Blocks
538 \setbeamercolor{block title}{%
539 fg=fibeamer@white, bg=fibeamer@green}
540 \setbeamercolor{block title example}{%
541 fg=fibeamer@white, bg=fibeamer@green}
542 \setbeamercolor{block title alerted}{%
543 fg=fibeamer@white, bg=red}
544 \setbeamercolor{block body}{%
545 fg=fibeamer@green, bg=fibeamer@gray!20!fibeamer@white}
546 %% Title
547 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@green}
548 % Code listings
549 \lstset{%
550 basicstyle=\footnotesize\ttfamily,
551 breakatwhitespace=false,

```

```

552 breaklines=true,
553 commentstyle=\color{green!60!fibeamer@black},
554 extendedchars=true,
555 keywordstyle=\color{blue},
556 showspace=false,
557 showstringspaces=false,
558 showtabs=false,
559 stringstyle=\color{violet}}
560 \mode
561 <all>

```

4.4 The Faculty of Arts

4.4.1 The theme/mu/beamercolorthemefibeamer-phil.sty file

This is the color theme for presentations written at the Faculty of Arts at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

562 \NeedsTeXFormat{LaTeX2e}
563 \ProvidesPackage{fibeamer/theme/mu/%
564 beamercolorthemefibeamer-mu-phil}[2016/05/06]
565 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

566 \definecolor{fibeamer@black}{HTML}{000000}
567 \definecolor{fibeamer@white}{HTML}{FFFFFF}
568 \definecolor{fibeamer@blue}{HTML}{0071B2}
569 \colorlet{fibeamer@lightBlue}{fibeamer@blue!30!fibeamer@white}
570 \colorlet{fibeamer@darkBlue}{fibeamer@blue!60!fibeamer@black}
571 \definecolor{fibeamer@gray}{HTML}{999999}
572 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
573 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkBlue}

574 %% Background gradients
575 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkBlue}
576 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkBlue}
577 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
578 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

579 \renewenvironment{darkframes}{%
580 \begingroup
581 \fibeamer@darktrue
582 %% Structures
583 \setbeamercolor*{frametitle}{fg=fibeamer@lightBlue}
584 \setbeamercolor*{framesubtitle}{fg=fibeamer@white}

```

```

585 %% Text
586 \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@blue}
587 \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@blue}

588 \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

589 %% Items, footnotes and links
590 \setbeamercolor*{item}{fg=fibeamer@lightBlue}
591 \setbeamercolor*{footnote mark}{fg=fibeamer@lightBlue}
592 \hypersetup{urlcolor=fibeamer@lightBlue, citecolor=fibeamer@lightBlue}
593 %% Blocks
594 \setbeamercolor*{block title}{%
595   fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
596 \setbeamercolor*{block title example}{%
597   fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
598 \setbeamercolor*{block title alerted}{%
599   fg=fibeamer@darkBlue, bg=fibeamer@lightOrange}
600 \setbeamercolor*{block body}{%
601   fg=fibeamer@blue,
602   bg=fibeamer@gray!15!fibeamer@white}
603 \usebeamercolor*{normal text}
604 % Code listings
605 \lstset{%
606   commentstyle=\color{green!30!fibeamer@white},
607   keywordstyle=\color{fibeamer@lightBlue},
608   stringstyle=\color{red!30!fibeamer@white}}
609 }{%
610 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

611 %% Structures
612 \setbeamercolor{frametitle}{fg=fibeamer@blue}
613 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
614 %% Text
615 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
616 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

617 \setbeamercolor{alerted text}{fg=red}
618 \addtobeamertemplate{block begin}{%
619   \iffibeamer@dark % alerted text in plain block at dark slides
620   \setbeamercolor{alerted text}{fg=fibeamer@orange}%
621   \fi}{%}

622 %% Items, footnotes and links
623 \setbeamercolor*{item}{fg=fibeamer@blue}
624 \setbeamercolor*{footnote mark}{fg=fibeamer@blue}
625 \hypersetup{urlcolor=fibeamer@blue, citecolor=fibeamer@blue}
626 %% Blocks
627 \setbeamercolor{block title}{%
628   fg=fibeamer@white, bg=fibeamer@blue}
629 \setbeamercolor{block title example}{%

```

```

630 fg=fibeamer@white, bg=fibeamer@blue}
631 \setbeamercolor{block title alerted}{%
632 fg=fibeamer@white, bg=red}
633 \setbeamercolor{block body}{%
634 fg=fibeamer@blue, bg=fibeamer@gray!20!fibeamer@white}
635 %% Title
636 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@blue}
637 % Code listings
638 \lstset{%
639 basicstyle=\footnotesize\ttfamily,
640 breakatwhitespace=false,
641 breaklines=true,
642 commentstyle=\color{green!60!fibeamer@black},
643 extendedchars=true,
644 keywordstyle=\color{fibeamer@blue},
645 showspace=false,
646 showstringspaces=false,
647 showtabs=false,
648 stringstyle=\color{violet}}
649 \mode
650 <all>

```

4.5 The Faculty of Education

4.5.1 The theme/mu/beamercolorthemefibeamer-ped.sty file

This is the color theme for presentations written at the Faculty of Education at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

651 \NeedsTeXFormat{LaTeX2e}
652 \ProvidesPackage{fibeamer/theme/mu/%
653 beamercolorthemefibeamer-mu-ped}[2016/05/06]
654 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

655 \definecolor{fibeamer@black}{HTML}{2B2E34}
656 \definecolor{fibeamer@white}{HTML}{FFFFFF}
657 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
658 \definecolor{fibeamer@orange}{HTML}{FF5500}
659 \colorlet{fibeamer@lightGray}{white!80!fibeamer@black}
660 \colorlet{fibeamer@gray}{white!35!fibeamer@black}
661 \colorlet{fibeamer@darkGray}{white!20!fibeamer@black}
662 \colorlet{fibeamer@blue}{blue!60!fibeamer@lightGray}
663 \colorlet{fibeamer@darkRed}{red!80!fibeamer@white}
664 \definecolor{fibeamer@lightRed}{HTML}{FF8B8B}

665 %% Background gradients

```

```

666 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@black}
667 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@black}
668 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
669 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

670 \renewenvironment{darkframes}{%
671   \begingroup
672     \fibeamer@darktrue
673     %% Structures
674     \setbeamercolor*{frametitle}{fg=fibeamer@lightOrange}
675     \setbeamercolor*{framesubtitle}{fg=fibeamer@lightGray}
676     %% Text
677     \setbeamercolor*{normal text}{fg=white, bg=fibeamer@black}
678     \setbeamercolor*{structure}{fg=white, bg=fibeamer@black}
679
680     \setbeamercolor*{alerted text}{fg=fibeamer@lightRed}
681
682     %% Items, footnotes and links
683     \setbeamercolor*{item}{fg=fibeamer@lightOrange}
684     \setbeamercolor*{footnote mark}{fg=fibeamer@lightOrange}
685     \hypersetup{urlcolor=fibeamer@lightOrange, citecolor=fibeamer@lightOrange}
686     %% Blocks
687     \setbeamercolor*{block title}{%
688       fg=fibeamer@black, bg=fibeamer@lightOrange}
689     \setbeamercolor*{block title example}{%
690       fg=fibeamer@lightOrange, bg=fibeamer@darkGray}
691     \setbeamercolor*{block title alerted}{%
692       fg=fibeamer@black, bg=fibeamer@lightRed}
693     \setbeamercolor*{block body}{%
694       fg=fibeamer@white,
695       bg=fibeamer@darkGray}
696     \usebeamercolor*{normal text}
697     % Code listings
698     \lstset{%
699       commentstyle=\color{green!30!white},
700       keywordstyle=\color{blue!30!white},
701       stringstyle=\color{fibeamer@orange!30!white}}
702   }{%
703     \endgroup}

```

Outside the `darkframes` environment, the light theme is used.

```

702 %% Structures
703 \setbeamercolor{frametitle}{fg=fibeamer@black}
704 \setbeamercolor{framesubtitle}{fg=fibeamer@gray}
705 %% Text
706 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
707 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}
708 \setbeamercolor{alerted text}{fg=red}

```



```

709 \addtobeamertemplate{block begin}{%
710   \iffibeamer@dark\else % alerted text in plain blocks at light slides
711     \setbeamercolor{alerted text}{fg=fibeamer@darkRed}
712   \fi{}}

713 %% Items, footnotes and links
714 \setbeamercolor*{item}{fg=fibeamer@orange}
715 \setbeamercolor*{footnote mark}{fg=fibeamer@orange}
716 \hypersetup{urlcolor=fibeamer@blue, citecolor=fibeamer@blue}
717 %% Blocks
718 \setbeamercolor{block title}{%
719   fg=fibeamer@black, bg=fibeamer@lightOrange}
720 \setbeamercolor{block title example}{%
721   fg=fibeamer@lightOrange, bg=fibeamer@black}
722 \setbeamercolor{block title alerted}{%
723   fg=fibeamer@white, bg=red}
724 \setbeamercolor{block body}{%
725   fg=white, bg=fibeamer@black}
726 %% Title
727 \setbeamercolor{title}{fg=fibeamer@lightOrange, bg=fibeamer@black}

728 \setbeamercolor{subtitle}{fg=fibeamer@white, bg=fibeamer@black}
729 \setbeamercolor{author}{fg=fibeamer@lightGray, bg=fibeamer@black}
730 % Code listings
731 \lstset{%
732   basicstyle=\footnotesize\ttfamily,
733   breakatwhitespace=false,
734   breaklines=true,
735   commentstyle=\color{green!60!black},
736   extendedchars=true,
737   keywordstyle=\color{fibeamer@blue},
738   showspaces=false,
739   showstringspaces=false,
740   showtabs=false,
741   stringstyle=\color{violet}}
742 \mode
743 <all>

```

4.6 The Faculty of Social Studies

4.6.1 The theme/mu/beamercolorthemefibeamer-fss.sty file

This is the color theme for presentations written at the Faculty of Social Studies at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

744 \NeedsTeXFormat{LaTeX2e}
745 \ProvidesPackage{fibeamer/theme/mu/%
746   beamercolorthemefibeamer-mu-fss}[2016/05/06]
747 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

748 \definecolor{fibeamer@black}{HTML}{000000}
749 \definecolor{fibeamer@white}{HTML}{FFFFFF}
750 \definecolor{fibeamer@cyan}{HTML}{00796E}
751 \colorlet{fibeamer@darkCyan}{fibeamer@cyan!70!fibeamer@black}
752 \colorlet{fibeamer@lightCyan}{fibeamer@cyan!30!fibeamer@white}
753 \definecolor{fibeamer@gray}{HTML}{999999}
754 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
755 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkCyan}

756 %% Background gradients
757 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkCyan}
758 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkCyan}
759 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
760 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

761 \renewenvironment{darkframes}{%
762   \begingroup
763     \fibeamer@darktrue
764     %% Structures
765     \setbeamercolor*{frametitle}{fg=fibeamer@lightCyan}
766     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
767     %% Text
768     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@cyan}
769     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@cyan}

770     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

771     %% Items, footnotes and links
772     \setbeamercolor{item}{fg=fibeamer@lightCyan}
773     \setbeamercolor{footnote mark}{fg=fibeamer@lightCyan}
774     \hypersetup{urlcolor=fibeamer@lightCyan, citecolor=fibeamer@lightCyan}
775     %% Blocks
776     \setbeamercolor*{block title}{%
777       fg=fibeamer@white, bg=fibeamer@cyan!60!fibeamer@white}
778     \setbeamercolor*{block title example}{%
779       fg=fibeamer@white, bg=fibeamer@cyan!60!fibeamer@white}
780     \setbeamercolor*{block title alerted}{%
781       fg=fibeamer@darkCyan, bg=fibeamer@lightOrange}
782     \setbeamercolor*{block body}{%
783       fg=fibeamer@cyan,
784       bg=fibeamer@gray!15!fibeamer@white}
785     \usebeamercolor*{normal text}
786     % Code listings
787     \lstset{%

```

```

788     commentstyle=\color{green!30!fibeamer@white},
789     keywordstyle=\color{blue!30!fibeamer@white},
790     stringstyle=\color{red!30!fibeamer@white}}
791   }{%
792   \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

793 %% Structures
794 \setbeamercolor{frametitle}{fg=fibeamer@cyan}
795 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
796 %% Text
797 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
798 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

799 \setbeamercolor{alerted text}{fg=red}
800 \addtobeamertemplate{block begin}{%
801   \iffibeamer@dark % alerted text in plain block at dark slides
802   \setbeamercolor{alerted text}{fg=fibeamer@orange}%
803   \fi}{}

804 %% Items, footnotes and links
805 \setbeamercolor{item}{fg=fibeamer@cyan}
806 \setbeamercolor{footnote mark}{fg=fibeamer@cyan}
807 \hypersetup{urlcolor=fibeamer@cyan, citecolor=fibeamer@cyan}
808 %% Blocks
809 \setbeamercolor{block title}{%
810   fg=fibeamer@white, bg=fibeamer@cyan}
811 \setbeamercolor{block title example}{%
812   fg=fibeamer@white, bg=fibeamer@cyan}
813 \setbeamercolor{block title alerted}{%
814   fg=fibeamer@white, bg=red}
815 \setbeamercolor{block body}{%
816   fg=fibeamer@cyan, bg=fibeamer@gray!20!fibeamer@white}
817 %% Title
818 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@cyan}
819 % Code listings
820 \lstset{%
821   basicstyle=\footnotesize\ttfamily,
822   breakatwhitespace=false,
823   breaklines=true,
824   commentstyle=\color{green!60!fibeamer@black},
825   extendedchars=true,
826   keywordstyle=\color{blue},
827   showspaces=false,
828   showstringspaces=false,
829   showtabs=false,
830   stringstyle=\color{violet}}
831 \mode
832 <all>

```

4.7 The Faculty of Law

4.7.1 The theme/mu/beamercolorthemefibeamer-law.sty file

This is the color theme for presentations written at the Faculty of Law at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```
833 \NeedsTeXFormat{LaTeX2e}
834 \ProvidesPackage{fibeamer/theme/mu/%
835 beamercolorthemefibeamer-mu-law}[2016/05/06]
836 \mode<presentation>
```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```
837 \definecolor{fibeamer@black}{HTML}{000000}
838 \definecolor{fibeamer@white}{HTML}{FFFFFF}
839 \definecolor{fibeamer@violet}{HTML}{732889}
840 \colorlet{fibeamer@darkViolet}{fibeamer@violet!70!fibeamer@black}
841 \colorlet{fibeamer@lightViolet}{fibeamer@violet!30!fibeamer@white}
842 \definecolor{fibeamer@gray}{HTML}{999999}
843 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
844 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkViolet}

845 %% Background gradients
846 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkViolet}
847 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkViolet}
848 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
849 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}
```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```
850 \renewenvironment{darkframes}{%
851   \begingroup
852     \fibeamer@darktrue
853     %% Structures
854     \setbeamercolor*{frametitle}{fg=fibeamer@lightViolet}
855     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
856     %% Text
857     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@violet}
858     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@violet}

859     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

860     %% Items, footnotes and links
861     \setbeamercolor*{item}{fg=fibeamer@lightViolet}
862     \setbeamercolor*{footnote mark}{fg=fibeamer@lightViolet}
863     \hypersetup{urlcolor=fibeamer@lightViolet, citecolor=fibeamer@lightViolet}
864     %% Blocks
865     \setbeamercolor*{block title}{%
```

```

866     fg=fibeamer@white, bg=fibeamer@violet!60!fibeamer@white}
867 \setbeamercolor*{block title example}{%
868     fg=fibeamer@white, bg=fibeamer@violet!60!fibeamer@white}
869 \setbeamercolor*{block title alerted}{%
870     fg=fibeamer@darkViolet, bg=fibeamer@lightOrange}
871 \setbeamercolor*{block body}{%
872     fg=fibeamer@violet,
873     bg=fibeamer@gray!15!fibeamer@white}
874 \usebeamercolor*{normal text}
875 % Code listings
876 \lstset{%
877     commentstyle=\color{green!30!fibeamer@white},
878     keywordstyle=\color{blue!30!fibeamer@white},
879     stringstyle=\color{fibeamer@lightViolet}}
880 }{%
881 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

882 %% Structures
883 \setbeamercolor{frametitle}{fg=fibeamer@violet}
884 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
885 %% Text
886 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
887 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}
888 \setbeamercolor{alerted text}{fg=red}
889 \addtobeamertemplate{block begin}{%
890     \iffibeamer@dark % alerted text in plain block at dark slides
891     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
892     \fi{}}
893 %% Items, footnotes and links
894 \setbeamercolor{item}{fg=fibeamer@violet}
895 \setbeamercolor{footnote mark}{fg=fibeamer@violet}
896 \hypersetup{urlcolor=fibeamer@violet, citecolor=fibeamer@violet}
897 %% Blocks
898 \setbeamercolor{block title}{%
899     fg=fibeamer@white, bg=fibeamer@violet}
900 \setbeamercolor{block title example}{%
901     fg=fibeamer@white, bg=fibeamer@violet}
902 \setbeamercolor{block title alerted}{%
903     fg=fibeamer@white, bg=red}
904 \setbeamercolor{block body}{%
905     fg=fibeamer@violet, bg=fibeamer@gray!20!fibeamer@white}
906 %% Title
907 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@violet}
908 % Code listings
909 \lstset{%
910     basicstyle=\footnotesize\ttfamily,
911     breakatwhitespace=false,
912     breaklines=true,

```

```

913  commentstyle=\color{green!60!fibeamer@black},
914  extendedchars=true,
915  keywordstyle=\color{blue},
916  showspace=false,
917  showstringspaces=false,
918  showtabs=false,
919  stringstyle=\color{violet}}
920 \mode
921 <all>

```

4.8 The Faculty of Economics and Administration

4.8.1 The theme/mu/beamercolorthemefibeamer-econ.sty file

This is the color theme for presentations written at the Faculty of Economics and Administration at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

922 \NeedsTeXFormat{LaTeX2e}
923 \ProvidesPackage{fibeamer/theme/mu/%
924  beamercolorthemefibeamer-mu-econ}[2016/05/06]
925 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

926 \definecolor{fibeamer@black}{HTML}{2B2E34}
927 \definecolor{fibeamer@white}{HTML}{FFFFFF}
928 \definecolor{fibeamer@brown}{HTML}{892840}
929 \colorlet{fibeamer@lightBrown}{fibeamer@brown!30!fibeamer@white}
930 \colorlet{fibeamer@darkBrown}{fibeamer@brown!60!fibeamer@black}
931 \definecolor{fibeamer@gray}{HTML}{999999}
932 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
933 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkBrown}

934 %% Background gradients
935 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkBrown}
936 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkBrown}
937 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
938 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

The `darkframes` environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

939 \renewenvironment{darkframes}{%
940  \begingroup
941  \fibeamer@darktrue
942  %% Structures
943  \setbeamercolor*{frametitle}{fg=fibeamer@brown!30!fibeamer@white}
944  \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
945  %% Text

```

```

946 \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@brown}
947 \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@brown}

948 \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

949 %% Items, footnotes and links
950 \setbeamercolor*{item}{fg=fibeamer@lightBrown}
951 \setbeamercolor*{footnote mark}{fg=fibeamer@lightBrown}
952 \hypersetup{urlcolor=fibeamer@lightBrown, citecolor=fibeamer@lightBrown}
953 %% Blocks
954 \setbeamercolor*{block title}{%
955   fg=fibeamer@white, bg=fibeamer@brown!60!fibeamer@white}
956 \setbeamercolor*{block title example}{%
957   fg=fibeamer@white, bg=fibeamer@brown!60!fibeamer@white}
958 \setbeamercolor*{block title alerted}{%
959   fg=fibeamer@darkBrown, bg=fibeamer@lightOrange}
960 \setbeamercolor*{block body}{%
961   fg=fibeamer@brown,
962   bg=fibeamer@gray!15!fibeamer@white}
963 \usebeamercolor*{normal text}
964 % Code listings
965 \lstset{%
966   commentstyle=\color{green!30!fibeamer@white},
967   keywordstyle=\color{blue!30!fibeamer@white},
968   stringstyle=\color{fibeamer@brown!30!fibeamer@white}}
969 }{%
970 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

971 %% Structures
972 \setbeamercolor{frametitle}{fg=fibeamer@brown}
973 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
974 %% Text
975 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
976 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

977 \setbeamercolor{alerted text}{fg=red}
978 \addtoeamertemplate{block begin}{%
979   \iffibeamer@dark % alerted text in plain block at dark slides
980     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
981   \fi}{}

982 %% Items, footnotes and links
983 \setbeamercolor{item}{fg=fibeamer@brown}
984 \setbeamercolor{footnote mark}{fg=fibeamer@brown}
985 \hypersetup{urlcolor=fibeamer@brown, citecolor=fibeamer@brown}
986 %% Blocks
987 \setbeamercolor{block title}{%
988   fg=fibeamer@white, bg=fibeamer@brown}
989 \setbeamercolor{block title example}{%
990   fg=fibeamer@white, bg=fibeamer@brown}

```

```

991 \setbeamercolor{block title alerted}{%
992   fg=fibeamer@white, bg=red}
993 \setbeamercolor{block body}{%
994   fg=fibeamer@brown, bg=fibeamer@gray!20!fibeamer@white}
995 %% Title
996 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@brown}
997 % Code listings
998 \lstset{%
999   basicstyle=\footnotesize\ttfamily,
1000  breakatwhitespace=false,
1001  breaklines=true,
1002  commentstyle=\color{green!60!fibeamer@black},
1003  extendedchars=true,
1004  keywordstyle=\color{blue},
1005  showspace=false,
1006  showstringspaces=false,
1007  showtabs=false,
1008  stringstyle=\color{violet}}
1009 \mode
1010 <all>

```

4.9 The Faculty of Medicine

4.9.1 The theme/mu/beamercolorthemefibeamer-med.sty file

This is the color theme for presentations written at the Faculty of Medicine at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

1011 \NeedsTeXFormat{LaTeX2e}
1012 \ProvidesPackage{fibeamer/theme/mu/%
1013   beamercolorthemefibeamer-mu-med}[2016/05/06]
1014 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

1015 \definecolor{fibeamer@black}{HTML}{000000}
1016 \definecolor{fibeamer@white}{HTML}{FFFFFF}
1017 \definecolor{fibeamer@red}{HTML}{c82600}
1018 \colorlet{fibeamer@lightRed}{fibeamer@red!30!fibeamer@white}
1019 \colorlet{fibeamer@darkRed}{fibeamer@red!60!fibeamer@black}
1020 \definecolor{fibeamer@gray}{HTML}{999999}
1021 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
1022 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkRed}

1023 %% Background gradients
1024 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkRed}
1025 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkRed}
1026 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}

```



```

1027 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}
The darkframes environment switches the \iffibeamer@darktrue conditional on
and sets a dark color theme.
1028 \renewenvironment{darkframes}{%
1029 \begingroup
1030 \fibeamer@darktrue
1031 %% Structures
1032 \setbeamercolor*{frametitle}{fg=fibeamer@lightRed}
1033 \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
1034 %% Text
1035 \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@red}
1036 \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@red}
1037 \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}
1038 %% Items, footnotes and links
1039 \setbeamercolor*{item}{fg=fibeamer@lightRed}
1040 \setbeamercolor*{footnote mark}{fg=fibeamer@lightRed}
1041 \hypersetup{urlcolor=fibeamer@lightRed, citecolor=fibeamer@lightRed}
1042 %% Blocks
1043 \setbeamercolor*{block title}{%
1044 fg=fibeamer@white, bg=fibeamer@red!60!fibeamer@white}
1045 \setbeamercolor*{block title example}{%
1046 fg=fibeamer@white, bg=fibeamer@red!60!fibeamer@white}
1047 \setbeamercolor*{block title alerted}{%
1048 fg=fibeamer@darkRed, bg=fibeamer@lightOrange}
1049 \setbeamercolor*{block body}{%
1050 fg=fibeamer@red,
1051 bg=fibeamer@gray!15!fibeamer@white}
1052 \usebeamercolor*{normal text}
1053 % Code listings
1054 \lstset{%
1055 commentstyle=\color{green!30!fibeamer@white},
1056 keywordstyle=\color{blue!30!fibeamer@white},
1057 stringstyle=\color{fibeamer@lightRed}}
1058 }{%
1059 \endgroup}

```

Outside the darkframes environment, the light theme is used.

```

1060 %% Structures
1061 \setbeamercolor{frametitle}{fg=fibeamer@red}
1062 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
1063 %% Text
1064 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
1065 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}
1066 \setbeamercolor{alerted text}{fg=orange}
1067 \addtobeamertemplate{block begin}{%
1068 \iffibeamer@dark % alerted text in plain block at dark slides
1069 \setbeamercolor{alerted text}{fg=fibeamer@orange}%
1070 \fi}{}

```

```

1071 %% Items, footnotes and links
1072 \setbeamercolor*{item}{fg=fibeamer@red}
1073 \setbeamercolor*{footnote mark}{fg=fibeamer@red}
1074 \hypersetup{urlcolor=fibeamer@red, citecolor=fibeamer@red}
1075 %% Blocks
1076 \setbeamercolor{block title}{%
1077   fg=fibeamer@white, bg=fibeamer@red}
1078 \setbeamercolor{block title example}{%
1079   fg=fibeamer@white, bg=fibeamer@red}
1080 \setbeamercolor{block title alerted}{%
1081   fg=fibeamer@white, bg=orange}
1082 \setbeamercolor{block body}{%
1083   fg=fibeamer@red!90!fibeamer@black,
1084   bg=fibeamer@gray!20!fibeamer@white}
1085 %% Title
1086 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@red}
1087 % Code listings
1088 \lstset{%
1089   basicstyle=\footnotesize\ttfamily,
1090   breakatwhitespace=false,
1091   breaklines=true,
1092   commentstyle=\color{green!60!fibeamer@black},
1093   extendedchars=true,
1094   keywordstyle=\color{blue},
1095   showspaces=false,
1096   showstringspaces=false,
1097   showtabs=false,
1098   stringstyle=\color{violet}}
1099 \mode
1100 <all>

```

4.10 The Faculty of Sports Studies

4.10.1 The theme/mu/beamercolorthemefibeamer-fsps.sty file

This is the color theme for presentations written at the Faculty of Sports Studies at the Masaryk University in Brno. This theme has no effect outside the presentation mode.

```

1101 \NeedsTeXFormat{LaTeX2e}
1102 \ProvidesPackage{fibeamer/theme/mu/%
1103   beamercolorthemefibeamer-mu-fsps}[2016/05/06]
1104 \mode<presentation>

```

This color theme uses the combination of yellow and shades of gray. The `fibeamer@{dark,light}@background{Inner,Outer}` colors are used within the background canvas template, which is defined within the base color theme of the Masaryk University and which draws the gradient background of the frames.

```

1105 \definecolor{fibeamer@black}{HTML}{000000}
1106 \definecolor{fibeamer@white}{HTML}{FFFFFF}

```

```

1107 \definecolor{fibeamer@blue}{HTML}{283889}
1108 \colorlet{fibeamer@darkBlue}{fibeamer@blue!60!fibeamer@black}
1109 \definecolor{fibeamer@brightBlue}{HTML}{3998F9}
1110 \colorlet{fibeamer@lightBlue}{fibeamer@blue!30!fibeamer@white}
1111 \definecolor{fibeamer@gray}{HTML}{999999}
1112 \definecolor{fibeamer@lightOrange}{HTML}{FFA25E}
1113 \colorlet{fibeamer@orange}{fibeamer@lightOrange!80!fibeamer@darkBlue}

1114 %% Background gradients
1115 \colorlet{fibeamer@dark@backgroundInner}{fibeamer@darkBlue}
1116 \colorlet{fibeamer@dark@backgroundOuter}{fibeamer@darkBlue}
1117 \colorlet{fibeamer@light@backgroundInner}{fibeamer@white}
1118 \colorlet{fibeamer@light@backgroundOuter}{fibeamer@white}

```

The darkframes environment switches the `\iffibeamer@darktrue` conditional on and sets a dark color theme.

```

1119 \renewenvironment{darkframes}{%
1120   \begingroup
1121     \fibeamer@darktrue
1122     %% Structures
1123     \setbeamercolor*{frametitle}{fg=fibeamer@blue!30!fibeamer@white}
1124     \setbeamercolor*{framesubtitle}{fg=fibeamer@white}
1125     %% Text
1126     \setbeamercolor*{normal text}{fg=fibeamer@white, bg=fibeamer@blue}
1127     \setbeamercolor*{structure}{fg=fibeamer@white, bg=fibeamer@blue}

1128     \setbeamercolor*{alerted text}{fg=fibeamer@lightOrange}

1129     %% Items, footnotes and links
1130     \setbeamercolor*{item}{fg=fibeamer@lightBlue}
1131     \setbeamercolor*{footnote mark}{fg=fibeamer@lightBlue}
1132     \hypersetup{urlcolor=fibeamer@lightBlue, citecolor=fibeamer@lightBlue}
1133     %% Blocks
1134     \setbeamercolor*{block title}{%
1135       fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
1136     \setbeamercolor*{block title example}{%
1137       fg=fibeamer@white, bg=fibeamer@blue!60!fibeamer@white}
1138     \setbeamercolor*{block title alerted}{%
1139       fg=fibeamer@darkBlue, bg=fibeamer@lightOrange}
1140     \setbeamercolor*{block body}{%
1141       fg=fibeamer@blue,
1142       bg=fibeamer@gray!15!fibeamer@white}
1143     \usebeamercolor*{normal text}
1144     % Code listings
1145     \lstset{%
1146       commentstyle=\color{green!30!fibeamer@white},
1147       keywordstyle=\color{blue!40!fibeamer@brightBlue!25!fibeamer@white},
1148       stringstyle=\color{red!30!fibeamer@white}}
1149   }{%
1150   \endgroup}

```

Outside the darkframes environment, the light theme is used.

```
1151 %% Structures
1152 \setbeamercolor{frametitle}{fg=fibeamer@blue}
1153 \setbeamercolor{framesubtitle}{fg=fibeamer@black!75!fibeamer@white}
1154 %% Text
1155 \setbeamercolor{normal text}{fg=fibeamer@black, bg=fibeamer@white}
1156 \setbeamercolor{structure}{fg=fibeamer@black, bg=fibeamer@white}

1157 \setbeamercolor{alerted text}{fg=red}
1158 \addtobeamertemplate{block begin}{%
1159   \iffibeamer@dark % alerted text in plain block at dark slides
1160     \setbeamercolor{alerted text}{fg=fibeamer@orange}%
1161   \fi{}}

1162 %% Items, footnotes and links
1163 \setbeamercolor{item}{fg=fibeamer@blue}
1164 \setbeamercolor{footnote mark}{fg=fibeamer@blue}
1165 \hypersetup{urlcolor=fibeamer@blue, citecolor=fibeamer@blue}
1166 %% Blocks
1167 \setbeamercolor{block title}{%
1168   fg=fibeamer@white, bg=fibeamer@blue}
1169 \setbeamercolor{block title example}{%
1170   fg=fibeamer@white, bg=fibeamer@blue}
1171 \setbeamercolor{block title alerted}{%
1172   fg=fibeamer@white, bg=red}
1173 \setbeamercolor{block body}{%
1174   fg=fibeamer@blue, bg=fibeamer@gray!20!fibeamer@white}
1175 %% Title
1176 \setbeamercolor{title}{fg=fibeamer@white, bg=fibeamer@blue}
1177 % Code listings
1178 \lstset{%
1179   basicstyle=\footnotesize\ttfamily,
1180   breakatwhitespace=false,
1181   breaklines=true,
1182   commentstyle=\color{green!60!fibeamer@black},
1183   extendedchars=true,
1184   keywordstyle=\color{fibeamer@brightBlue!50!fibeamer@blue},
1185   showspaces=false,
1186   showstringspaces=false,
1187   showtabs=false,
1188   stringstyle=\color{violet}}
1189 \mode
1190 <all>
```

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Change History

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|----------|--|----|----------|--|----|
| v1.0.1 | General: Added DVI output support. [VN] | 13 | v1.1.0:2 | <code>\fibeamer@logoLocale</code> : Added the <code>logoLocale</code> option and the <code>\fibeamer@logoLocale</code> macro. [VN] | 4 |
| v1.0.2 | General: Added the opt-out microtype option. [VN] | 3 | v1.1.0:3 | <code>\fibeamer@fallbackLogo</code> : Added the <code>\fibeamer@fallbackLogo</code> macro. [VN] | 7 |
| v1.0.3 | General: The example documents from the example directory and the user guide from the guide directory are now a part of the CTAN archive. [VN] | 1 | v1.1.0:4 | General: Length definitions within the themes of the Masaryk University in Brno are no longer based on the dimensions of the (now unused) logo in the upper right corner. [VN] | 14 |
| v1.0.4 | General: Updated the user guide of the Masaryk University in Brno. [VN] | 1 | v1.1.0:5 | <code>\fibeamer@includeLogo</code> : Added the <code>\fibeamer@includeLogo</code> macro. [VN] | 7 |
| v1.1.0:1 | <code>\fibeamer@locale</code> : Added the <code>locale</code> option and the <code>\fibeamer@locale</code> macro. [VN] | 4 | v1.1.0:6 | General: Added support for the <code>\tableofcontents</code> to the themes of the Masaryk University in Brno. [VN] | 12 |
| | <code>\fibeamer@logo</code> : Changed the implicit value of the <code>\fibeamer@logo</code> macro. [VN] .. | 6 | | Added the logo dimension definitions to the themes of the Masaryk University in Brno. [VN] | 14 |
| | General: Added the new logo files for the faculties of the Masaryk University in Brno and removed the old logo files. [VN] | 1 | | Updated the example documents of the Masaryk University in Brno to showcase the use of the <code>\tableofcontents</code> . [VN] | 1 |
| | The faculty logos are no longer displayed on regular slides, as per the new unified design of the Masaryk University in Brno. [VN] | 14 | | | |

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| v1.1.0:7 | General: Added support for <code>\alert</code> to the themes of the Masaryk University in Brno. [VN] 17–20, 22, 24, 26–29, 31, 33, 35, 36 | backgrounds from the color themes of the Masaryk University in Brno. [VN] 17, 19, 21, 23, 26, 28, 30, 32, 35 |
| | Updated the example documents of the Masaryk University in Brno to showcase the use of <code>\alert</code> . [VN] 1 | v1.1.4:3 |
| v1.1.0:8 | General: Added support for colored citations to the themes of the Masaryk University in Brno. [VN] 12 | General: Added proper link coloring for the color themes of the Masaryk University in Brno. [VN] 12, 17–20, 22, 24–29, 31, 33–36 |
| v1.1.1:1 | <code>\fibeamer@fallbackLogo</code> : Added the <code>fallbackLogo</code> option. [VN] 7 | v1.1.4:4 |
| v1.1.1:2 | General: Added proper coloring of <code>\qed</code> to the themes of the Masaryk University in Brno. [VN] 11 | General: Added support for subtitle and author name coloring within the color themes of the Masaryk University in Brno. [VN] 16, 18, 25 |
| v1.1.1:3 | General: Refactored the themes of the Masaryk University in Brno. Removed the useless uses of <code>use</code> in the color themes. Replaced <code>\setbeamertemplate</code> in the inner theme with the more appropriate <code>\defbeamertemplate*</code> . Added missing <code>%s</code> . [VN] 1 | v1.1.4:5 |
| | | General: Unified the alert colors in the color themes of the Masaryk University in Brno. [VN] 17–20, 22, 24, 26–29, 31, 33, 35, 36 |
| v1.1.1:3 | | v1.1.5:1 |
| | | General: Added <code>pdfencoding</code> to the <code>hyperref</code> package setup. This fixes the problem with garbled characters in PDF metadata with <code>LuaTeX</code> 1 |
| v1.1.2 | <code>\fibeamer@patch</code> : Added <code>\fibeamer@patch</code> 8 | v1.1.5:2 |
| v1.1.3 | General: Added visual tests of output PDFs. 1 | General: Updated the light color theme of the Faculty of Informatics at the Masaryk University in Brno. [VN] 18 |
| v1.1.4:1 | General: Completely revamped the color theme of the Faculty of Education at the Masaryk University in Brno. [VN] 23 | v1.1.6 |
| | Completely revamped the color theme of the Faculty of Informatics at the Masaryk University in Brno. [VN] 16 | General: Added proper citation coloring for the color themes of the Masaryk University in Brno. [VN] . . 17–20, 22, 24–29, 31, 33–36 |
| v1.1.4:2 | General: Removed gradient | The title frame now properly loads the color theme definitions for dark frames. As a result, the <code>hyperref URL</code> color for light frames is no longer used in the title frame. [VN] . . 15 |
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| | | General: Fixed active character - in |

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| v1.2.0 | | | |
| General: Added support for the | | | |