

Y. B.

L^AT_EX Class yb-book*

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1 Introduction

The provided class yb-book helps me design [my books](#) and publish them [on Amazon](#). You are welcome to use it for your own books. It is as simple as this:

```
\documentclass{yb-book}
\renewcommand*\thetitle{New Book About OOP}
\renewcommand*\theauthor{Jeff Lebowski}
\renewcommand*\thevolume{1}
\renewcommand*\theversion{1.0}
\begin{document}
\ybPrintTitlePage
\chapter{First One}
\section{About Something Interesting}
Hello, world!
\end{document}
```

You are welcome to suggest additional options and commands, but the style of my books is intentionally as simple as possible, avoiding formatting as much as possible. Here is [why](#).

2 Options

There are a few class options you can use:

compact Use this package option when you need to make text more compact and take less vertical space. This may be convenient for fiction books. I use this option to render [Code Ahead](#) book.

sparse With this package option every section will start from a new page.

*The sources are in GitHub at [yegor256/yb-book.cls](https://github.com/yegor256/yb-book.cls)

- `manuscript` When the format is not for Amazon printing, but for some other purposes (the page size is A4), this option may be convenient. I also use it when I want the book to be rendered for printing on paper for review purposes.
- `authordraft` When it's a draft for reviewers (the page size is A4) and you want to have a watermark and a compact form of the content. This option goes together with `\thereviewer{}` command, which you may redefine, in order to embed the name of the reviewed in the watermark. This may help you prevent theft of your book:

```
\documentclass[authordraft]{yb-book}
\renewcommand*\thereviewer{Walter Sobchak}
\begin{document}
Hello, world!
\end{document}
```

3 Meta Commands

There are a number of commands that you may redefine in the preamble:

```
\documentclass{yb-book}
\newcommand*\thetitle{My New Book About OOP}
\newcommand*\theauthor{Yegor Bugayenko}
\newcommand*\thevolume{1}
\newcommand*\thedata{24 Feb 2022}
\newcommand*\theversion{1.4}
\newcommand*\thereviewer{Jeff Lebowski}
\begin{document}
... the content goes here ...
\end{document}
```

4 Printers

There are a number of printers — commands that print large blocks of text in the expected format:

- `\ybPrintTitlePage` Prints the first page of a book. It expects at least `\thetitle` and `\theauthor` to be defined:

```
\documentclass{yb-book}
\renewcommand*\thetitle{My New Book}
\renewcommand*\theauthor{Yegor Bugayenko}
\begin{document}
\ybPrintTitlePage
.. the rest of the book goes here
\end{document}
```

- `\ybPrintTOC` Prints the table of contents.

- `\ybQuote` Prints a side quote:

```
\documentclass{yb-book}
\begin{document}
Hello, world!
```

```

\ybQuote{Never tell the truth to people who
are not worthy of it}{Mark Twain}{}
\end{document}

```

`\ybPrintBibliography` Prints the list of bib references.

`\ybPrintIndex` Prints index with an optional name of the section (instead of “Index”):

```

\documentclass{yb-book}
\begin{document}
Hello, world!
\ybPrintIndex{Recommended Books}
\end{document}

```

5 Implementation

First, we parse package options:

```

1 \RequirePackage{pgfopts}
2 \pgfkeys{
3   /yb/.cd,
4   authordraft/.store in=\yb@authordraft,
5   compact/.store in=\yb@compact,
6   manuscript/.store in=\yb@manuscript,
7   sparse/.store in=\yb@sparse,
8 }
9 \ProcessPgfPackageOptions{/yb}

```

Then, depending on the options like `authordraft` and `manuscript`, we preset options of the class `book` and then load it:

```

10 \makeatletter
11 \ifdefined\yb@authordraft
12   \PassOptionsToClass{11pt}{book}
13   \PassOptionsToClass{oneside}{book}
14 \else
15   \ifdefined\yb@manuscript
16     \PassOptionsToClass{12pt}{book}
17     \PassOptionsToClass{oneside}{book}
18   \else
19     \PassOptionsToClass{11pt}{book}
20     \PassOptionsToClass{twoside}{book}
21   \fi
22 \fi
23 \makeatother
24 \LoadClass{book}

```

Then, we load [inputenc](#) for UTF-8 encoding of the sources:

```

25 \RequirePackage[utf8]{inputenc}

```

`geometry` Then, using `geometry`, we setup page layout:

```

26 \RequirePackage{geometry}
27 \geometry{
28   paperwidth=6in, paperheight=9in,
29   bindingoffset=0.25in,
30   left=0.75in, right=0.75in, top=0.75in, bottom=1.25in}

```

```

31 \makeatletter
32 \ifdefined\yb@authordraft
33   \geometry{a4paper, margin=1in, left=1.5in}
34 \else
35   \ifdefined\yb@manuscript
36     \geometry{a4paper, margin=1.2in}
37   \fi
38 \fi
39 \makeatother

```

Then, we load [anyfontsize](#) to enable all sizes of fonts:

```
40 \RequirePackage{anyfontsize}
```

Then, we load [tikz](#) for graphics:

```

41 \RequirePackage{tikz}
42   \usetikzlibrary{positioning}
43   \usetikzlibrary{shapes}
44   \usetikzlibrary{fit}

```

Then, we load [chngcntr](#) for something else:

```

45 \RequirePackage{chngcntr}
46   \counterwithout{footnote}{chapter}

```

Then, we load [lastpage](#) to enable rendering of the last page number:

```
47 \RequirePackage{lastpage}
```

Then, we load [paralist](#) for inline enumeration:

```
48 \RequirePackage{paralist}
```

Then, we load [xcolor](#) for colors:

```
49 \RequirePackage{xcolor}
```

Then, we load [graphicx](#) to enable graphic files inclusion:

```
50 \RequirePackage{graphicx}
```

Then, we load [enumitem](#) for inline enumeration:

```

51 \RequirePackage[inline]{enumitem}
52   \setlist{nosep}

```

Then, we load [float](#) for floating figures:

```
53 \RequirePackage{float}
```

Then, we load [ulem](#) for inline lists:

```
54 \RequirePackage[normalem]{ulem}
```

Then, we load [xfp](#) and [xifthen](#) for if-then-else:

```

55 \RequirePackage{xfp}
56 \RequirePackage{xifthen}

```

Then, we load [soul](#) for highlighting:

```
57 \RequirePackage{soul}
```

Then, we load [csquotes](#) for better rendering:

```
58 \RequirePackage[autostyle=try]{csquotes}
```

`\pagestyle` Then, we set the layout of a page to plain:

```
59 \pagestyle{plain}
```

setspace Then, using `setspace` package we set the spacing between lines in the text, depending on the package options:

```
60 \RequirePackage{setspace}
61 \setstretch{1.2}
62 \makeatletter
63 \ifdefined\yb@authordraft\setstretch{1.1}\fi
64 \ifdefined\yb@compact\setstretch{1.0}\fi
65 \ifdefined\yb@manuscript\setstretch{1.1}\fi
66 \makeatother
```

biblatex Then, we configure `biblatex`, for citation management:

```
67 \RequirePackage[indexing=cite,style=authoryear,
68 natbib=true,maxnames=1,minnames=1,doi=false,
69 url=false,isbn=false,isbn=false]{biblatex}
70 \DeclareCiteCommand{\citetitle}
71   {\boolfalse{citetracker}%
72    \boolfalse{pagetracker}%
73    \usebibmacro{prenote}}
74   {\ifciteindex
75     {\indexnames{labelname}}
76     {}}%
77   \printfield[citetitle]{labeltitle}}
78   {\multicitedelim}
79   {\usebibmacro{postnote}}
80 \DeclareCiteCommand*{\citetitle}
81   {\boolfalse{citetracker}%
82    \boolfalse{pagetracker}%
83    \usebibmacro{prenote}}
84   {\ifciteindex
85     {\indexnames{labelname}}
86     {}}%
87   \printfield[citetitle]{title}}
88   {\multicitedelim}
89   {\usebibmacro{postnote}}
```

condensed Then, we define condensed environment for snippets (`lsstyle` is defined by `letterspace` in `microtype`):

```
90 \newenvironment{condensed}
91   {\begingroup\setstretch{1.0}\lsstyle}
92   {\endgroup}
```

microtype Then, we include `microtype` for better rendering:

```
93 \makeatletter
94 \ifdefined\yb@authordraft\else
95   \RequirePackage[letterspace=-50]{microtype}
96 \fi
97 \makeatother
```

libertine Then, we include `libertine`, for a good looking font:

```
98 \makeatletter
99 \ifdefined\yb@manuscript
100 \RequirePackage[tt=false,type1=true]{libertine}
101 \fi
102 \makeatother
```

`\section` Then, we redefine `\section` command:

```
103 \makeatletter
104 \let\yb@oldsection\section
105 \def\yb@secstart{\ifdefined\yb@sparse\newpage\fi}
106 \ifdefined\yb@authordraft
107   \RequirePackage[medium]{titlesec}
108 \else
109   \RequirePackage[raggedright]{titlesec}
110   \titlespacing{\section}{0in}{6pt}{6pt}[1in]
111   \renewcommand\section{\yb@secstart\newpage\yb@oldsection}
112 \fi
113 \ifdefined\yb@compact
114   \renewcommand\section{\yb@secstart\vspace{2em}\yb@oldsection}
115 \fi
116 \makeatother
```

Then, if it's a authordraft, we put a watermark comment:

```
117 \makeatletter
118 \ifdefined\yb@authordraft
119   \RequirePackage[absolute]{textpos}
120   \TPGrid{16}{16}
121   \RequirePackage{fancyhdr}
122   \pagestyle{fancy}
123   \renewcommand\headrulewidth{0pt}
124   \renewcommand\footrulewidth{0pt}
125   \setlength{\headheight}{16pt}
126   \fancyhf{}
127   \fancyhead[L,C,LO,CO]{}
128   \fancyhead[R,RO]{
129     \begin{textblock}{4}(11.5,1)%
130       \tikz \node [color=gray, rotate=270,
131         font=\ttfamily\scriptsize, text width=5in] at (0,0) {%
132         Copyright \textcopyright{} \the\year{} by \theauthor{}.
133         All rights reserved. No part of the contents of
134         this book may be reproduced or transmitted in any
135         form or by any means without the written permission
136         of the publisher. This particular manuscript is
137         printed for \textbf{\thereviewer{}} and may be used only
138         for one-time review. The manuscript has to be destroyed
139         after the review.%
140       };
141     \end{textblock}
142   }
143   \fancyfoot[C,CO,CE]{\small\ttfamily%
144     page \#\the\page{} of \pageref{LastPage}}
145 \fi
146 \makeatother
```

`\maketitle` Then, we redefine `\maketitle` command:

```
147 \renewcommand\maketitle{
148   {\LARGE\textbf{\thetitle}}
149   \\[1em]
150   by \theauthor{}
151   \\[4em]
```

```

152 \ifx\thevolume\empty\else%
153   Volume \thevolume{}\
154 \fi
155 \ifx\thedata\empty\else%
156   Rendered on \thedata{}
157 \fi
158 \ifx\theversion\empty\else%
159   \
160   Ver. \theversion{}
161 \fi
162 }

```

`\ybPrintTitlePage` Then, we define `\ybPrintTitlePage` command:

```

163 \makeatletter
164 \newcommand\ybPrintTitlePage{
165   \ifdefined\yb@authordraft\else
166     \begin{titlepage}
167       \ttfamily
168       \vspace*{\fill}
169       \noindent
170       {\Huge\thetitle}
171       \[1em]
172       by \theauthor{}
173       \[4em]
174       \ifx\thevolume\empty\else%
175         Volume \thevolume{}\
176       \fi
177       \ifx\thedata\empty\else%
178         \thedata{}
179       \fi
180       \ifx\thedata\empty\else%
181         \
182         \theversion{}
183       \fi
184       \vspace*{\fill}
185     \end{titlepage}
186   \fi
187 }
188 \makeatother

```

`\ybPrintTOC` Then, we define `ybPrintTOC` command to print table of contents:

```

189 \makeatletter
190 \newcommand\ybPrintTOC{
191   \ifdefined\yb@authordraft\else
192     \ifdefined\yb@compact\else\cleardoublepage\fi
193     {\setstretch{0.7}\tableofcontents}
194   \fi
195 }
196 \makeatother

```

`\ybPrintIndex` Then, we configure `imakeidx` package and define `\ybPrintIndex` command:

```

197 \RequirePackage{imakeidx}
198 \renewbibmacro*{citeindex}{\indexnames{labelname}{}}
199 \makeindex

```

```

200 \indexsetup{othercode={\hyphenpenalty=10000}}
201 \makeatletter
202 \newcommand\ybPrintIndex[1][Index]{%
203 \ifdefined\yb@authordraft\else
204 \cleardoublepage%
205 {%
206 \setstretch{1.0}%
207 \small%
208 \addcontentsline{toc}{chapter}{#1}%
209 \printindex%
210 }%
211 \fi%
212 }
213 \makeatother

```

\ybQuote Then, with the help of wrapfig and mdframed, we define \ybQuote command:

```

214 \RequirePackage{wrapfig}
215 \RequirePackage{mdframed}
216 \RequirePackage{changepage}
217 \strictpagecheck
218 \mdfdefinestyle{quoteodd}{backgroundcolor=black!0,
219 leftmargin=6pt,rightmargin=0pt,
220 innerleftmargin=6pt,inerrightmargin=0pt,
221 innertopmargin=0pt,innerbottommargin=0pt,
222 skipabove=0pt,skipbelow=0pt,
223 linewidth=2pt,
224 topline=false,bottomline=false,rightline=false}
225 \mdfdefinestyle{quoteeven}{backgroundcolor=black!0,
226 rightmargin=6pt,leftmargin=0pt,
227 innerrightmargin=6pt,innerleftmargin=0pt,
228 innertopmargin=0pt,innerbottommargin=0pt,
229 skipabove=0pt,skipbelow=0pt,
230 linewidth=2pt,
231 topline=false,bottomline=false,leftline=false}
232 \makeatletter
233 \newcommand\ybQuote[3]{%
234 \ifthenelse{\isempty{#3}}{ }{
235 \ifx\hfuzz#2\hfuzz%
236 \index{#3}%
237 \else%
238 \index{#3, #2}%
239 \fi%
240 }%
241 \def\yb@body{%
242 \raggedright%
243 \ifx\hfuzz#3\hfuzz%
244 #1%
245 \else%
246 ‘#1’\ \ \raggedleft---#2 #3%
247 \fi%
248 }
249 \ifdefined\yb@authordraft%
250 \begin{wrapfigure}{r}{0.4\textwidth}%
251 \begin{mdframed}[style=quoteodd]%

```



```

252     \yb@body%
253     \end{mdframed}%
254     \end{wrapfigure}%
255 \else%
256     \begin{wrapfigure}{o}[12pt]{0.4\textwidth}%
257     \sffamily\checkoddpaper%
258     \ifoddpaper%
259     \begin{mdframed}[style=quoteodd]\yb@body\end{mdframed}%
260     \else%
261     \begin{mdframed}[style=quoteeven]\yb@body\end{mdframed}%
262     \fi%
263     \vspace{-12pt}
264     \end{wrapfigure}%
265 \fi%
266 }
267 \makeatother

```

Then, we use and configure footmisc as suggested [here](#):

```

268 \RequirePackage{perpage}
269 \RequirePackage[bottom,perpage,multiple]{footmisc}
270 \makeatletter
271 \let\yb@oldfootnote\footnote
272 \newcommand\yb@nexttoken\relax
273 \newcommand\yb@isfootnote{%
274 \ifx\footnote\yb@nexttoken\textsuperscript{,}\fi}
275 \renewcommand\footnote[1]{%
276 \yb@oldfootnote{#1}\futurelet\yb@nexttoken\yb@isfootnote}
277 \makeatother

```

`\ybPrintBibliography` Then, we define `\ybPrintBibliography`, to print a list of references:

```

278 \makeatletter
279 \newcommand\ybPrintBibliography{%
280 \AtNextBibliography{\small}%
281 \raggedright%
282 \ifdefined\yb@manuscript%
283 \setlength\bibitemsep{0pt}%
284 \newpage%
285 \begin{multicols}{2}
286 {\setstretch{1.0}\printbibliography}
287 \end{multicols}
288 \else
289 \printbibliography
290 \fi
291 }
292 \makeatother

```

Then, a few layout configurations at the beginning of the document:

```

293 \AtBeginDocument{%
294 \raggedbottom%
295 \setlength\topskip{0mm}%
296 \setlength\parindent{0pt}%
297 \setlength\fbboxsep{0pt}%
298 \setlength\parskip{6pt}%
299 \interfootnotelinepenalty=10000%

```

```
300 }
```

Finally, a few meta commands with default values:

```
301 \newcommand*\thetitle{\textbackslash{}thetitle}
302 \newcommand*\thevolume{}
303 \newcommand*\thedate{}
304 \newcommand*\theversion{\textbackslash{}theversion}
305 \newcommand*\theauthor{\textbackslash{}theauthor}
306 \newcommand*\thereviewer{\textbackslash{}thereviewer}
307
308 \endinput
```

Change History

v0.1.0		<code>draft</code> renamed to <code>draft</code>	2
	General: Initial version	3	
v0.2.0		General: The <code>sparse</code> package option added, to place every section in a new page.	3
	General: Started using <code>l3build</code>	3	
v0.3.0		General: The <code>pgfopts</code> package is now used to parse package options.	3
	General: The <code>pgfopts</code> package is now used to parse package options.	3	
v0.4.0		<code>authordraft</code> : The package option	
		General: Added the usage of <code>inputenc</code> in order to ensure UTF-8 encoding for the sources.	3
		v0.5.0	
		General: The <code>sparse</code> package option added, to place every section in a new page.	3
		v0.5.1	
		General: Added the usage of <code>inputenc</code> in order to ensure UTF-8 encoding for the sources.	3

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