

Y. B.

LaTeX 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}

```

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

```

25 \RequirePackage{geometry}
26 \geometry{
27   paperwidth=6in, paperheight=9in,
28   bindingoffset=0.25in,
29   left=0.75in, right=0.75in, top=0.75in, bottom=1.25in}
30 \makeatletter
31 \ifdefined\yb@authordraft
32   \geometry{a4paper, margin=1in, left=1.5in}

```

```

33 \else
34   \ifdefined\yb@manuscript
35     \geometry{a4paper, margin=1.2in}
36   \fi
37 \fi
38 \makeatother

```

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

```
39 \RequirePackage{anyfontsize}
```

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

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

```

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

```
44 \RequirePackage{chngcntr}
45 \counterwithout{footnote}{chapter}

```

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

```
46 \RequirePackage{lastpage}
```

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

```
47 \RequirePackage{paralist}
```

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

```
48 \RequirePackage{xcolor}
```

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

```
49 \RequirePackage{graphicx}
```

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

```
50 \RequirePackage[inline]{enumitem}
51 \setlist{nosep}

```

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

```
52 \RequirePackage{float}
```

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

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

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

```
54 \RequirePackage{xfp}
55 \RequirePackage{xifthen}

```

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

```
56 \RequirePackage{soul}
```

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

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

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

```
58 \pagestyle{plain}
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

```

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

```

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

```

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

```



```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

299 }

Finally, a few meta commands with default values:

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

Change History

v0.1.0		v0.4.0	
General: Initial version	3	authordraft : The package option	
v0.2.0		draft renamed to draft	2
General: Started using l3build	3	v0.5.0	
v0.3.0		General: The sparse package option	
General: The pgfopts package is now		added, to place every section in a	
used to parse package options.	3	new page.	3

Index

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