

The `articletoobook` package*

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1 The DOCSTRIP modules

The following modules are used in the implementation to direct DOCSTRIP in generating the external files:

package	produce the package <code>articletobook</code>
driver	produce a documentation driver file

2 Initial code

<code>\@ifmainmatter</code>	The switch <code>\@ifmainmatter</code> indicates whether we are processing the main material in the book.
	<pre> 1 <*package> 2 \newif\if@mainmatter \@mainmattertrue </pre>
<code>\if@openright</code>	A switch to indicate if chapters must start on a right-hand page. The default is yes.
	<pre> 3 \newif\if@openright \@openrighttrue </pre>
<code>\if@twoside</code>	A switch to indicate if twosided printing is in use. The default is yes. It is defined already by <code>article</code> so is only set here.
	<pre> 4 \@twosidetrue </pre>

3 Declaration of options

3.1 Options setup

We use the package `kvoptions` to provide a key value interface for options.

```

5 \RequirePackage{kvoptions}
6 \SetupKeyvalOptions{
7   family = atob,
8   prefix = atob@
9 }

```

3.2 Options for disabling features which clash

The option `undefrules` is used to undefine `\headrule` and `\footrule` so that they may be defined subsequently by `titlesec`.

```
10 \DeclareBoolOption[false]{undefrules}
```

3.3 Options for correcting ‘features’ of **book**

The option `fixstarredmarks` sets chapter and section marks following starred chapters and sections.

```
11 \DeclareBoolOption[false]{fixstarredmarks}
```

3.4 Options copied from the standard class **book**

These options determine whether or not a chapter must start on a right-hand page.

```
12 \DeclareVoidOption{openright}{\@openrighttrue}
```

```
13 \DeclareVoidOption{openany}{\@openrightfalse}
```

These options determine whether two sided printing is in use or not.

```
14 \@twoside true
```

```
15 \DeclareVoidOption{twoside}{\@twoside true}
```

```
16 \DeclareVoidOption{oneside}{\@twoside false}
```

These options determine whether to adjust the layout to match `book`.

```
17 \DeclareBoolOption[true]{booklayout}
```

```
18 \DeclareComplementaryOption{originallayout}{booklayout}
```

4 Executing options

```
19 \ProcessKeyvalOptions*
```

```
20 \ifatob@booklayout
```

```
21   \input{bk1\@optsz.clo}
```

```
22 \fi
```

```
23
```

```
24 \ifatob@undefrules
```

```
25   \undef{\headrule}
```

```
26   \undef{\footrule}
```

```
27 \fi
```

5 Loading packages

This package makes heavy use of the `titlesec` bundle of packages. It also used `xparse` and `etoolbox` to define and patch commands.

```
28 \RequirePackage[notocpart*,loadonly]{titlesec}
```

```
29 \RequirePackage{titletoc}
```

```
30 \RequirePackage[nopatches]{titlesp}
```

```
31 \RequirePackage{xparse,etoolbox}
```

6 Document layout

6.1 Page styles

6.1.1 Page style *headings*

`\ps@headings` The definition of the page style *headings* has to be different for two sided printing than it is for one sided printing.

```
32 \if@twoside
33   \renewpagestyle{headings}{
The running feet are empty in this page style, the running head contains the page
number and one of the marks.
34       \sethead[\thepage]%
35           []%
36           [\slshape\MakeUppercase{\ifnum\c@secnumdepth>\m@ne%
37               \if@mainmatter\if@noschapter%
38                   \@chaptername\ thechapter.\ %
39                   \fi\fi\fi\bookchaptertertitle}}%
40       {\slshape\MakeUppercase{\ifnum\c@secnumdepth>\z@%
41           \if@nossection%
42               \thesection.\ \fi\fi\sectiontitle}}}%
43       {\thepage}
44   }
```

The definition of the page style *headings* for one sided printing can be much simpler, because we treat even and odd pages the same.

```
45 \else
46   \renewpagestyle{headings}{
47       \sethead{\slshape\MakeUppercase{\ifnum\c@secnumdepth>\m@ne%
48           \if@mainmatter\@chaptername\ thechapter.\ %
49           \fi\fi\bookchaptertertitle}}}%
50       {}%
51       {\thepage}
52   }
53 \fi
```

6.1.2 Page style *myheadings*

`\ps@myheadings` The definition of the pagestyle *myheadings* is simple as it is intended for customization.

```
54 \renewpagestyle{myheadings}{
55     \renewcommand{\markright}[1]{\def\rightmark{##1}}
56     \renewcommand{\markboth}[2]{\def\leftmark{##1}\def\rightmark{##2}}
57     \sethead[\thepage]%
58         []%
59         [\slshape\leftmark]%
60         {\slshape\rightmark}%
61         {}%
62         {\thepage}
```

63 }

7 Document markup

7.1 The title

`\maketitle` If a separate titlepage is not being used then `\maketitle` is redefined to be empty – an error results if this is not done. The reason for this is unclear.

```
64 \if@titlepage\else
65 \renewcommand{\maketitle}{}
66 \fi
```

7.2 Defining counters

`\c@secnumdepth` The value of the counter *secnumdepth* gives the depth of the highest-level sectioning command that is to produce section numbers.

```
67 \setcounter{secnumdepth}{2}
```

`\c@bookpart` The value of these counters gives the current part or chapter. The section counter
`\c@bookchapter` must be reset by the chapter counter using `\@addtoreset`.

```
68 \newcounter {bookpart}
69 \newcounter {bookchapter}
70 \@addtoreset{section}{bookchapter}
```

`\thebookchapter` We redefine `\theCTR` for each section counter `\c@CTR`.

```
    \thesection 71 \renewcommand \thebookpart    {\@Roman\c@bookpart}
    \thesubsection 72 \renewcommand \thebookchapter {\@Arabic\c@bookchapter}
\thesubsubsection 73 \renewcommand \thesection    {\thebookchapter.\@Arabic\c@section}
    \theparagraph 74 \renewcommand \thesubsection {\thesection.\@Arabic\c@subsection}
\thesubparagraph 75 \renewcommand \thesubsubsection{\thesubsection.\@Arabic\c@subsubsection}
76 \renewcommand \theparagraph    {\thesubsubsection.\@Arabic\c@paragraph}
77 \renewcommand \thesubparagraph {\theparagraph.\@Arabic\c@subparagraph}
```

7.3 Front Matter, Main Matter, and Back Matter

A book contains these three (logical) sections. The switch `\@mainmatter` is true iff we are processing Main Matter. When this switch is false, the `\bookchapter` command does not print bookchapter numbers.

Here we define the commands that start these sections.

`\frontmatter` This command starts Roman page numbering and turns off chapter numbering. Since this restarts the page numbering from 1, it should also ensure that a recto page is used.

```
78 \newcommand\frontmatter{%
79     \if@openright
80         \cleardoublepage
81     \else
```

```

82         \clearpage
83     \fi
84     \@mainmatterfalse
85     \pagenumbering{roman}}

\mainmatter This command clears the page, starts arabic page numbering and turns on chapter
numbering. Since this restarts the page numbering from 1, it should also ensure
that a recto page is used.
86 \newcommand\mainmatter{%
87     \if@openright
88         \cleardoublepage
89     \else
90         \clearpage
91     \fi
92     \@mainmattertrue
93     \pagenumbering{arabic}}

\backmatter This clears the page, turns off chapter numbering and leaves page numbering
unchanged.
94 \newcommand\backmatter{%
95     \if@openright
96         \cleardoublepage
97     \else
98         \clearpage
99     \fi
100     \@mainmatterfalse}

```

7.4 Parts, chapters, sections, and paragraphs

```

\bookpart First, we redefine the sectioning structure of the class using \titleclass from
\bookchapter titlesec. We begin the sectioning at the part level using \bookpart internally.
\section This will later be let to \part. Similarly, \bookchapter will be let to \chapter.
\subsection 101 \titleclass{\bookpart}{-1}{page}
\subsubsection 102 \titleclass{\bookchapter}{top}{\bookpart}
\paragraph 103 \titleclass{\section}{straight}{\bookchapter}
\subparagraph 104 \titleclass{\subsection}{straight}{\section}
105 \titleclass{\subsubsection}{straight}{\subsection}
106 \titleclass{\paragraph}{straight}{\subsubsection}
107 \titleclass{\subparagraph}{straight}{\paragraph}

```

We now format each of these sectioning commands in the same way as the standard class book.

```

108 \titleformat{\bookpart}
109     [display]
110     {\centering\normalfont\huge\bfseries}
111     {\partname\nobreakspace\thebookpart}
112     {20pt}
113     {\Huge}
114 \titlespacing*{\bookpart}{0pt}{0pt}{0pt}

```

```

115
116 \titleformat{\bookchapter}
117     [display]
118     {\normalfont\huge\bfseries\if@appendix%
119         \gdef\@chaptername{\appendixname}\fi}
120     {\@chaptername\ \thebookchapter}
121     {20pt}
122     {\Huge}
123 \titlespacing*{\bookchapter}{0pt}{50pt}{40pt}
124
125 \titleformat{\section}
126     {\normalfont\Large\bfseries}{\thesection}{1em}{}
127 \titleformat{\subsection}
128     {\normalfont\large\bfseries}{\thesubsection}{1em}{}
129 \titleformat{\subsubsection}
130     {\normalfont\normalsize\bfseries}{\thesubsubsection}{1em}{}
131 \titleformat{\paragraph}[runin]
132     {\normalfont\normalsize\bfseries}{\theparagraph}{1em}{}
133 \titleformat{\subparagraph}[runin]
134     {\normalfont\normalsize\bfseries}{\thesubparagraph}{1em}{}
135
136 \titlespacing*{\chapter}
137     {0pt}{50pt}{40pt}
138 \titlespacing*{\section}
139     {0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
140 \titlespacing*{\subsection}
141     {0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
142 \titlespacing*{\subsubsection}
143     {0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
144 \titlespacing*{\paragraph}
145     {0pt}{3.25ex plus 1ex minus .2ex}{1em}
146 \titlespacing*{\subparagraph}
147     {\parindent}{3.25ex plus 1ex minus .2ex}{1em}

```

Finally, we let `\bookpart` to `\part` and carefully define `\chapter` to account for the effects of `\@ifmainmatter`. We must also enable marks for `\bookchapter` and `\section`. We split `\chapter` and `\section` into starred and unstarred internal versions to allow for careful control of the marks.

```

148 \let\part\bookpart
149 \settitledmarks{bookchapter,section}
150 \newif\if@noschapter \@noschaptertrue
151 \NewDocumentCommand{\chapter}{s O{#3} m}{
152     \IfBooleanTF{#1}{
153         \@schapter{#2}{#3}
154         \ifatob@fixstarredmarks\@noschapterfalse\else\@noschaptertrue\fi
155     }{
156         \@chapter{#2}{#3}
157         \@noschaptertrue
158     }
159 }

```

```

160 \NewDocumentCommand{\@schapter}{m m}{
161     \bookchapter*{#2}
162
163     \ifatob@fixstarredmarks\def\lastchaptermark{#1}\fi
164
165     \chaptermark{\lastchaptermark}
166 }
167 \NewDocumentCommand{\@chapter}{m m}{
168     \if@mainmatter
169         \bookchapter[#1]{#2}
170     \else
171         \bookchapter*{#2}
172         \addcontentsline{toc}{bookchapter}{#1}
173     \fi
174     \def\lastchaptermark{#1}
175     \chaptermark{#1}
176 }
177 \let\oldsection\section
178 \newif\if@nossection \@nossectiontrue
179 \RenewDocumentCommand{\section}{s O{#3} m}{
180     \IfBooleanTF{#1}{
181         \@ssection{#2}{#3}
182         \ifatob@fixstarredmarks\@nossectionfalse\else\@nossectiontrue\fi
183     }{
184         \@section{#2}{#3}
185         \@nossectiontrue
186     }
187 }
188 \NewDocumentCommand{\@ssection}{m m}{
189     \oldsection*{#2}
190
191     \ifatob@fixstarredmarks\def\lastsectionmark{#1}\fi
192
193     \sectionmark{\lastsectionmark}
194 }
195 \NewDocumentCommand{\@section}{m m}{
196     \oldsection[#1]{#2}
197
198     \def\lastsectionmark{#1}
199     \sectionmark{#1}
200 }
201 \newcommand{\chaptermark}[1]{\bookchaptermark{#1}}
202 \newcommand{\thechapter}{\thebookchapter}

```

7.5 Redefining environments

7.5.1 Abstract

abstract This environment should be undefined for book

```
203 \undef{\abstract}
```



```
204 \undef{\endabstract}
```

7.5.2 Titlepage

titlepage This environment includes a `\cleardoublepage` which is not present in article

```
205 \renewenvironment{titlepage}
206   {%
207     \cleardoublepage
208     \if@twocolumn
209     \@restonecoltrue\onecolumn
210     \else
211     \@restonecolfalse\newpage
212     \fi
213     \thispagestyle{empty}%
214     \setcounter{page}\z@
215   }%
216   {\if@restonecol\twocolumn \else \newpage \fi
217 }
```

7.5.3 Equation and eqnarray

\theequation We need the equation counter to reset with the *bookchapter* counter and we also need to redefine `\theequation`.

```
218 \@addtoreset{equation}{bookchapter}
219 \renewcommand{\theequation}{\ifnum \c@bookchapter>\z@%
220   \thebookchapter.\fi \@arabic\c@equation}
```

7.5.4 Appendix

\appendix We redefine the `\appendix` command to reset the bookchapter and section counters, start producing alphabetic chapter numbers, and set `\@ifappendix`. This switch is used to redefine `\@chaptername` to `\appendixname` ensuring that this change occurs in the right place.

```
221 \newif\if@appendix \@appendixfalse
222 \renewcommand{\appendix}{
223   \par
224   \setcounter{bookchapter}{0}
225   \setcounter{section}{0}
226   \@appendixtrue
227   \gdef\thebookchapter{\@Alph\c@bookchapter}
228 }
```

7.6 Floating objects

7.6.1 Figure

\c@figure We need the *figure* counter to reset with the *bookchapter* counter and we also need to redefine `\thefigure`.

```

229 \@addtoreset{figure}{bookchapter}
230 \renewcommand{\thefigure}{\ifnum \c@bookchapter>\z@%
231     \thebookchapter.\fi \@arabic\c@figure}

```

7.6.2 Table

`\c@table` We need the *table* counter to reset with the *bookchapter* counter and we also need to redefine `\thetable`.

```

232 \@addtoreset{table}{bookchapter}
233 \renewcommand{\thetable}{\ifnum \c@bookchapter>\z@%
234     \thebookchapter.\fi \@arabic\c@table}

```

8 Cross referencing

8.1 Table of contents etc.

`\c@stocdepth` The value of the counter *tocdepth* gives the depth of the highest-level sectioning command that is to produce section numbers in the table of contents.

```

235 \setcounter{tocdepth}{2}

```

8.1.1 Table of contents

`\tableofcontents` We need to redefine the table of contents formatting using `\titlecontents`

```

236 \renewcommand\tableofcontents{%
237     \if@twocolumn
238         \@restonecoltrue\onecolumn
239     \else
240         \@restonecolfalse
241     \fi
242     \chapter*{\contentsname}%
243     \chaptermark{\contentsname}
244     \vspace{-40pt}
245     \@starttoc{toc}%
246     \if@restonecol\twocolumn\fi
247 }
248
249 \contentsmargin{2.55em}
250
251 \titlecontents{bookpart}
252     [1.6em]
253     {\addvspace{3.25em}\bfseries\large}
254     {\contentslabel{1.4em}}
255     {\hspace*{0em}}
256     {\normalsize\hfill\contentspage{\large}}
257
258 \titlecontents{bookchapter}
259     [1.5em]
260     {\addvspace{1em}\bfseries}

```

```

261     {\contentslabel{1.5em}}
262     {\hspace*{-1.5em}}
263     {\titlerule*[1pc]{.}\contentspage}
264
265 \titlecontents{section}
266     [3.8em]
267     {}
268     {\contentslabel{2.3em}}
269     {\hspace*{-1.5em}}
270     {\titlerule*[1pc]{.}\contentspage}
271
272 \titlecontents{subsection}
273     [7.1em]
274     {}
275     {\contentslabel{3.2em}}
276     {\hspace*{-2.3em}}
277     {\titlerule*[1pc]{.}\contentspage}
278
279 \titlecontents{subsubsection}
280     [9.3em]
281     {}
282     {\contentslabel{4.1em}}
283     {\hspace*{-3.2em}}
284     {\titlerule*[1pc]{.}\contentspage}
285
286 \titlecontents{paragraph}
287     [12.3em]
288     {}
289     {\contentslabel{5em}}
290     {\hspace*{-4.1em}}
291     {\titlerule*[1pc]{.}\contentspage}
292
293 \titlecontents{subparagraph}
294     [14.3em]
295     {}
296     {\contentslabel{6em}}
297     {\hspace*{-5em}}
298     {\titlerule*[1pc]{.}\contentspage}

```

8.1.2 List of figures

`\listoffigures` We need the list of figures to begin with `\chapter*`.

```

299 \renewcommand\listoffigures{%
300     \if@twocolumn
301         \@restonecoltrue\onecolumn
302     \else
303         \@restonecolfalse
304     \fi
305     \chapter*{\listfigurename}%

```

```

306 \chaptermark{\listfigurename}
307 \vspace{-40pt}
308 \@starttoc{lof}%
309 \if@restonecol\twocolumn\fi
310 }

```

8.1.3 List of tables

`\listoftables` We need the list of tables to begin with `\chapter*`.

```

311 \renewcommand\listoftables{%
312 \if@twocolumn
313 \@restonecoltrue\onecolumn
314 \else
315 \@restonecolfalse
316 \fi
317 \chapter*{\listtablename}%
318 \chaptermark{\listtablename}
319 \vspace{-40pt}
320 \@starttoc{lot}%
321 \if@restonecol\twocolumn\fi
322 }

```

8.2 Bibliography

`thebibliography` We need the bibliography to begin with `\chapter*`.

```

323 \renewenvironment{thebibliography}[1]
324 {\chapter*{\bibname}%
325 \chaptermark{\bibname}
326 \list{\@biblabel{\@arabic\c@enumiv}}%
327 {\settowidth\labelwidth{\@biblabel{#1}}%
328 \leftmargin\labelwidth
329 \advance\leftmargin\labelsep
330 \@openbib@code
331 \usecounter{enumiv}%
332 \let\p@enumiv\@empty
333 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
334 \sloppy
335 \clubpenalty4000
336 \@clubpenalty \clubpenalty
337 \widowpenalty4000%
338 \sfcode'\.\@m}
339 {\def\@noitemerr
340 {\@latex@warning{Empty 'thebibliography' environment}}%
341 \endlist}

```

8.3 The index

`theindex` We need the index to begin with `\chapter*`.

```

342 \renewenvironment{theindex}
343 {\if@twocolumn
344   \@restonecolfalse
345   \else
346   \@restonecoltrue
347   \fi
348   \twocolumn[\chapter*{\indexname}\chaptermark{\indexname}]\%
349   \thispagestyle{plain}\parindent\z@
350   \parskip\z@ \@plus .3\p@\relax
351   \columnseprule \z@
352   \columnsep 35\p@
353   \let\item\idxitem}
354 {\if@restonecol\onecolumn\else\clearpage\fi}

```

9 Initialization

Finally, we initialize a few necessary commands.

```

355 \def\lastsectionmark{}
356 \def\lastchaptermark{}
357 \newcommand{\bibname}{Bibliography}
358 \newcommand{\chaptername}{Chapter}
359 \newcommand{\@chaptername}{\chaptername}
360 \pagestyle{headings}
361 \</package>

```

Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	
\@Alph	227
\@Roman	71
\@addtoreset	70, 218, 229, 232
\@appendixfalse	221
\@appendixtrue	226
\@arabic 72–77, 220, 231, 234, 326, 333	
\@biblabel	326, 327
\@chapter	156, 167
\@chaptername ...	38, 48, 119, 120, 359
\@clubpenalty	336
\@empty	332
\@idxitem	353
\@ifmainmatter	<u>1</u>
\@latex@warning	340
\@m	338
\@mainmatterfalse	84, 100
\@mainmattertrue	2, 92
\@noitemerr	339
\@noschapterfalse	154
\@noschaptertrue	150, 154, 157
\@nossectionfalse	182
\@nossectiontrue	178, 182, 185
\@openbib@code	330
\@openrightfalse	13
\@openrighttrue	3, 12
\@plus	350
\@ptsize	21
\@restonecolfalse	
.....	211, 240, 303, 315, 344
\@restonecoltrue	209, 238, 301, 313, 346
\@schapter	153, 160

<code>\@section</code>	184, 195	<code>\columnseprule</code>	351
<code>\@ssection</code>	181, 188	<code>\contentslabel</code>	
<code>\@starttoc</code>	245, 308, 320	. 254, 261, 268, 275, 282, 289, 296	
<code>\@twosidefalse</code>	16	<code>\contentsmargin</code>	249
<code>\@twosidetrue</code>	4, 14, 15	<code>\contentsname</code>	242, 243
		<code>\contentspage</code>	
		. 256, 263, 270, 277, 284, 291, 298	
<code>_</code>	38, 41, 48, 120		
A			
<code>\abstract</code>	203	<code>\DeclareBoolOption</code>	10, 11, 17
<code>abstract (environment)</code>	<u>203</u>	<code>\DeclareComplementaryOption</code>	18
<code>\addcontentsline</code>	172	<code>\DeclareVoidOption</code>	12, 13, 15, 16
<code>\advance</code>	329		
<code>\appendix</code>	221	E	
<code>\appendixname</code>	119	<code>\else</code> 45, 64, 81, 89, 97, 154, 170, 182,	
		210, 216, 239, 302, 314, 345, 354	
		<code>\endabstract</code>	204
		<code>\endlist</code>	341
		environments:	
		<code>abstract</code>	<u>203</u>
		<code>thebibliography</code>	<u>323</u>
		<code>theindex</code>	<u>342</u>
		<code>titlepage</code>	<u>205</u>
B			
<code>\backmatter</code>	<u>94</u>		
<code>\bfseries</code>	110, 118,		
126, 128, 130, 132, 134, 253, 260			
<code>\bibname</code>	324, 325, 357		
<code>\bookchapter</code>	<u>101</u>		
<code>\bookchaptermark</code>	201		
<code>\bookchaptertitle</code>	39, 49		
<code>\bookpart</code>	<u>101</u>		
C			
<code>\c@bookchapter</code> <u>68</u> , 72, 219, 227, 230, 233		F	
<code>\c@bookpart</code>	<u>68</u> , 71	<code>\fi</code> 22, 27, 39, 41, 49, 53, 66, 83, 91,	
<code>\c@enumiv</code>	326, 333	99, 119, 154, 163, 173, 182, 191,	
<code>\c@equation</code>	220	212, 216, 220, 231, 234, 241,	
<code>\c@figure</code>	<u>229</u>	246, 304, 309, 316, 321, 347, 354	
<code>\c@paragraph</code>	76	<code>\footrule</code>	26
<code>\c@secnumdepth</code>	36, 40, 47, <u>67</u>	<code>\frontmatter</code>	<u>78</u>
<code>\c@section</code>	73		
<code>\c@stocdepth</code>	<u>235</u>	H	
<code>\c@subparagraph</code>	77	<code>\headrule</code>	25
<code>\c@subsection</code>	74		
<code>\c@subsubsection</code>	75	I	
<code>\c@table</code>	<u>232</u>	<code>\if@appendix</code>	118, 221
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