

# The `articleto book` 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>articleto book</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 &lt;*package&gt; 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 \@twosidettrue </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{original layout}{booklayout}
```

## 4 Executing options

```
19 \ProcessKeyvalOptions*
```

```
20 \if at ob@book layout
```

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

```
22 \fi
```

```
23
```

```
24 \if at ob@undef rules
```

```
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\bookchapterertitle}}%
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\bookchapterertitle}}%
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 `titlesec`. We begin the sectioning at the part level using `\bookpart` internally.

`\bookchapter` This will later be let to `\part`. Similarly, `\bookchapter` will be let to `\chapter`.

`\section`

`\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		
<b>A</b>			
<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		
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		210, 216, 239, 302, 314, 345, 354	
		<code>\endabstract</code> .....	204
		<code>\endlist</code> .....	341
<b>B</b>			
<code>\backmatter</code> .....	<u>94</u>	environments:	
<code>\bfseries</code> .....	110, 118,	<code>abstract</code> .....	<u>203</u>
126, 128, 130, 132, 134, 253, 260		<code>thebibliography</code> .....	<u>323</u>
<code>\bibname</code> .....	324, 325, 357	<code>theindex</code> .....	<u>342</u>
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