

# Using the Sectioning Command Code of the Standard Classes

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A long time ago **KOMA-Script** was more or less just a collection of replacements for the three standard classes `article`, `book` and `report`. Replacing a standard class with a **KOMA-Script** class was easy, even if users used a lot of additional packages. Over the years, the author has added many new features and user interfaces to the classes. This also led to completely different implementation of the sectioning commands. But some packages depend on an implementation similar to the standard classes.

Package `standardsectioning` implements these commands with the code of the standard classes and also deactivates parts of the **KOMA-Script** user interface, which should not be used with these changes. These are more or less all commands to configure sectioning commands. It also reverts some internal macros of **KOMA-Script**.

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# 1 What are the typical reasons for using package `standardsectioning` and how to do it?

Sometimes replacing a standard class by a **KOMA-Script** class results in new errors, because of incompatibility of some of the packages or the already existing preamble code with these classes. In such a case, you first should try out package `scrhack` without passing any option to that package. Package `scrhack` should be the first package after loading the document class, or even be loaded *before* the document class using `\RequirePackage` instead of `\usepackage`. If this already fixes the issue, you can try to find out which of the replacements and enhancements loaded by `scrhack` solved the issue and load only these.

Only if you cannot fix the issue this kind you can try loading `standardsectioning` either also using `scrhack` with corresponding options (see [Koh23d]) or just loading `standardsectioning`.

Such errors happen, e.g., because `titlesec` makes assumptions about the definition of the sectioning commands that simply do not apply to the **KOMA-Script** classes. This leads, e.g., in the following example:

```
\documentclass{scrartcl}
\usepackage{titlesec}
\begin{document}
\section{Test Section}
Test text.
\end{document}
```

to the error message:

```
Package titlesec Error: No format for this command.
```

```
See the titlesec package documentation for explanation.
```

```
Type H <return> for immediate help.
```

```
...
```

```
1.4 \section{Test Section}
```

Several other errors can happen with combinations of `titlesec` and **KOMA-Script** classes. Best solution for this, would be to not use `titlesec` and instead use the class' interface to configure the sectioning commands, e.g., `\RedeclareSectionCommand`, `\setkomafont`, or redefining `\sectionlinesformat`. See [Koh23a] or [Koh23b] for more information. But if you do not use any of the enhanced sectioning features of the **KOMA-Script** classes, a first-aid workaround would be to load package `standardsectioning` immediately *after* the class:

```
\documentclass{scrartcl}
\usepackage{standardsectioning}
\usepackage{titlesec}
\begin{document}
\section{Test Section}
Test text.
\end{document}
```

Among other things, this redefines the sectioning commands to be compatible with the standard classes.

! **But note:** This also means, that all the enhancements to these commands are broken! You cannot use `\DeclareSectionCommand`, `\RedeclareSectionCommand`, `\DeclareNewSectionCommand`, `\ProvideSectionCommand`, `\DeclareSectionCommands`, `\RedeclareSectionCommands`, `\DeclareNewSectionCommands`, or `\ProvideSectionCommands` any longer. Other commands like `\partformat`, `\chapterformat`, `\sectionformat`, `\subsectionformat`, `\subsubsectionformat`, `\paragraphformat`, `\subparagraphformat` and many more are not used anymore.

Sometimes a wrapper classes loads a **KOMA-Script** class and than also loads a package like **titlesec**. To load `standardsections` immediately after the class, you should use the generic class hook available from L<sup>A</sup>T<sub>E</sub>X 2020-10-01:

```
\AddToHook{class/scrartcl/after}{\RequirePackage{standardsectioning}}
\AddToHook{class/scrbook/after}{\RequirePackage{standardsectioning}}
\AddToHook{class/scrreprt/after}{\RequirePackage{standardsectioning}}
```

These lines should be placed before `\documentclass`. If you are using an older L<sup>A</sup>T<sub>E</sub>X version you can use **KOMA-Script** package `scrfile` to do the same:

```
\RequirePackage{scrfile}
\AfterClass{scrartcl}{\RequirePackage{standardsectioning}}
\AfterClass{scrbook}{\RequirePackage{standardsectioning}}
\AfterClass{scrreprt}{\RequirePackage{standardsectioning}}
```

also *before* loading the class.

## 2 How to select the correct sectioning code, if the automatism fails?

By default, the package uses an automatism to decide which code of which standard class should be used. If the KOMA-Script class `scrartcl` is detected, automatically the code of `article` is used. If the KOMA-Script class `scrreprt` is detected, automatically the code of `report` is used. If the KOMA-Script class `scrbook` is detected, automatically the code of `book` is used. If none of these classes is detected, the existence of two commands is used. If `\chapter` is not defined, the code of `article` is used. If `\chapter` is defined, but `\frontmatter` is not defined, the code of `report` is used. If both `\chapter` and `\frontmatter` are defined, the code of `book` is used.

`article` (*opt.*)      Very seldom this automatism fails and the wrong code is used, which results in error messages or printing mistakes. In this case you can load package `standardsectioning` with one of the options `article`, `report` or `book` to force the usage of the sectioning code of either `article`, `report`, or `book`. This could, e.g., be needed, if you are using a class, that defines `\chapter` and `\frontmatter` but not `\if@mainmatter`. In this case, you should use

```
\usepackage[report]{standardsectioning}
```

instead of

```
\usepackage{standardsectioning}
```

because otherwise the not defined `\if@mainmatter` will result in errors, when using `\chapter`.

## 3 Implementation

### 3.1 Messages

There are some messages, that may be used several times:

```
1 \msg_new:nmmm { standardsectioning } { wrong-package-order }
2 {
3   wrong~package~order~detected.
4 }
5 {
6   You've~loaded~this~package~after~package~#1.\iow_newline:
7   But~this~cannot~work.\iow_newline:
8   Loading aborted!
9 }
10
11 \msg_new:nnn { standardsectioning } { deactivate-extended-section-commands }
12 {
13   extended~sectioning~option~handling~deactivated.
14 }
15
16 \msg_new:nnn { standardsectioning } { no-force-with-KOMA-Script-class }
17 {
18   package~option~'#1'~is~ignored~due~to~usage~of~KOMA-Script~class~\KOMAClassName.
19 }
```

### 3.2 Package order

**hyperref** must not be loaded, because otherwise deactivation of `\scr@chapter@after@hyperref@patch` would not work.

```
20 \@ifpackageloaded { hyperref }
21 {
22   \msg_critical:nnn { standardsectioning } { wrong-package-order }
23   { hyperref }
24 } { }
```

**titlesec** must not be loaded, because otherwise the re-definitions would overwrite the definitions of this package.

```
25 \@ifpackageloaded { titlesec }
26 {
27   \msg_critical:nnn { standardsectioning } { wrong-package-order }
28   { titlesec }
29 } { }
```

**sectsty** must not be loaded, because otherwise the re-definitions would overwrite the definitions of this package.

```
30 \@ifpackageloaded { sectsty }
31 {
32   \msg_critical:nmmm { standardsectioning } { wrong-package-order }
33   { sectsty }
34 } { }
```

### 3.3 KOMA-Script deactivation code

`\_komascript_deactivation_code`: Some deactivation code is common for all KOMA-Script classes and therefore we use an auxiliary function to not need to copy it several times.

```

35 \cs_new:Nn \@@_common_komascript_deactivation_code:
36 {

```

`\@startsection` KOMA-Script classes redefine this internal L<sup>A</sup>T<sub>E</sub>X kernel macro. In this case `\scr@saved@startsection` is defined, differs from `\@startsection` and has the definition found before redefining the original macro. We do nothing else but resetting `\@startsection` to this saved definition.

```

37 \RenewCommandCopy \@startsection \scr@saved@startsection

```

`\@sect` All these should be resetted to their original definitions stored in `\scr@latex@...`

```

\@ssect 38 \RenewCommandCopy\@sect\scr@latex@sect
\@xssect 39 \RenewCommandCopy\@ssect\scr@latex@ssect
40 \RenewCommandCopy\@xssect\scr@latex@xssect

```

`\DeclareSectionCommand` These KOMA-Script commands do not make sense any longer after forced redefinition of `\part ... \subparagraph`. They even would not work correctly after resetting, e.g., `\DeclareNewSectionCommand \@startsection`. So best reaction is to *undefine* them.

```

\ProvideSectionCommand 41 \cs_undefine:N \DeclareSectionCommand
\DeclareSectionCommands 42 \cs_undefine:N \DeclareSectionCommands
\RedeclareSectionCommands 43 \cs_undefine:N \RedeclareSectionCommand
\DeclareNewSectionCommands 44 \cs_undefine:N \RedeclareSectionCommands
\ProvideSectionCommands 45 \cs_undefine:N \DeclareNewSectionCommand
46 \cs_undefine:N \DeclareNewSectionCommands
47 \cs_undefine:N \ProvideSectionCommand
48 \cs_undefine:N \ProvideSectionCommands

```

`\minisec` This also has to be undefined, because it also uses internal KOMA-Script definitions, which are deactivated.

```

49 \cs_undefine:N \minisec

```

`\scr@chapter@before@hyperref@patch` Now, definitions without respecting `hyperref` are used, so `hyperref` should again be able to patch them. So the hack should deactivate the patch deactivation of the KOMA-Script classes.

```

50 \cs_gset_eq:NN \scr@chapter@before@hyperref@patch \relax
51 \cs_gset_eq:NN \scr@chapter@after@hyperref@patch \relax

```

`\scr@osectarg` The KOMA-Script classes use this macro to store how to use the optional argument of section commands. But with the standard class definition the only possibility is to use it as running head and write it into the table of contents without any extended handling. So the only value, that makes sense is 0.

```

52 \int_if_zero:nF { \scr@osectarg }
53 {
54 \msg_warning:nn { standardsectioning }
55 { deactivate-extended-section-commands }
56 \cs_gset_eq:NN \scr@osectarg \c_zero_int
57 }

```

`\scr@activate@xsection` Further changing of the value has to be deactivated.

```
58 \renewcommand*{\scr@activate@xsection}[1]{%
59 \int_if_zero:nF { ##1 }
60 {
61 \msg_warning:nn { standardsectioning }
62 { deactivate-extended-section-commands }
63 \cs_gset_eq:NN \scr@osectarg \c_zero_int
64 }
65 }%
```

`\partlineswithprefixformat` These KOMA-Script commands are not used any longer. To detect errors, because of re-defining them, we undefine them.

```
\sectionlinesformat
\sectioncatchphraseformat
66 \cs_undefine:N \partlineswithprefixformat
67 \cs_undefine:N \sectionlinesformat
68 \cs_undefine:N \sectioncatchphraseformat
```

`headings` (*opt.*) The KOMA-Script option does not make sense any longer. So it is deactivated and usage will throw an error.

```
69 \RelaxFamilyKey[.\KOMAClassFileName]{KOMA}{headings}%
70 \KOMA@kav@removekey{\KOMAClassFileName}{headings}%
```

`\scr@class@titlesec@warning` The warning about loading `titlesec` has to be removed, because we do not expect errors any longer.

```
71 \cs_undefine:N \scr@class@titlesec@warning
72 }
```

### 3.4 Sectioning code of the standard classes

`\part` These commands are redefined using code from `classes.dtx` 2024/02/08 v1.4n. Only `\chapter` `\newcommand` is replaced by `\def` and `#` are doubled. Depending on the class, we use `\section` different code:

```
\subsection
\subsubsection
\@_article_sectioning_code:
\@_book_sectioning_code:
\@_report_sectioning_code:
\subparagraph
73 \cs_new:Nn \@_article_sectioning_code:
74 {
75 \def\part{%
76 \if@noskipsec \leavevmode \fi
77 \par
78 \addvspace{4ex}%
79 \@afterindentfalse
80 \secdef\@part\@spart}%
81 \def\@part[##1]##2{%
82 \ifnum \c@secnumdepth >\m@ne
83 \refstepcounter{part}%
84 \addcontentsline{toc}{part}{\thepart\hspace{1em}##1}%
85 \else
86 \addcontentsline{toc}{part}{##1}%
87 \fi
88 {\parindent \z@ \raggedright
```

```

89     \interlinepenalty \@M
90     \normalfont
91     \ifnum \c@secnumdepth >\m@ne
92         \Large\bfseries \partname\nobreakspace\thepart
93     \par\nobreak
94     \fi
95     \huge \bfseries ##2%
96     \markboth{}{}\par}%
97     \nobreak
98     \vskip 3ex
99     \@afterheading}%
100 \def\@spart##1{%
101     {\parindent \z@ \raggedright
102         \interlinepenalty \@M
103         \normalfont
104         \huge \bfseries ##1\par}%
105     \nobreak
106     \vskip 3ex
107     \@afterheading}%
108
109 \def\section{\@startsection {section}{1}{\z@}%
110     {-3.5ex \@plus -1ex \@minus -.2ex}%
111     {2.3ex \@plus .2ex}%
112     {\normalfont\Large\bfseries}}%
113 \def\subsection{\@startsection{subsection}{2}{\z@}%
114     {-3.25ex \@plus -1ex \@minus -.2ex}%
115     {1.5ex \@plus .2ex}%
116     {\normalfont\large\bfseries}}%
117 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}%
118     {-3.25ex \@plus -1ex \@minus -.2ex}%
119     {1.5ex \@plus .2ex}%
120     {\normalfont\normalsize\bfseries}}%
121 \def\paragraph{\@startsection{paragraph}{4}{\z@}%
122     {3.25ex \@plus 1ex \@minus .2ex}%
123     {-1em}%
124     {\normalfont\normalsize\bfseries}}%
125 \def\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
126     {3.25ex \@plus 1ex \@minus .2ex}%
127     {-1em}%
128     {\normalfont\normalsize\bfseries}}%
129 }
130
131 \cs_new:Nn \@@_report_sectioning_code:
132 {
133     \def\part{%
134         \if@openright
135             \cleardoublepage
136         \else
137             \clearpage
138         \fi
139         \thispagestyle{plain}%
140         \if@twocolumn

```

```

141     \onecolumn
142     \@tempswatruue
143     \else
144     \@tempswafalse
145     \fi
146     \null\vfil
147     \secdef\@part\@spart}
148
149 \def\@part[##1]##2{%
150     \ifnum \c@secnumdepth >-2\relax
151     \refstepcounter{part}%
152     \addcontentsline{toc}{part}{\thepart\hspace{1em}##1}%
153     \else
154     \addcontentsline{toc}{part}{##1}%
155     \fi
156     \markboth{}{}%
157     {\centering
158     \interlinepenalty \@M
159     \normalfont
160     \ifnum \c@secnumdepth >-2\relax
161     \huge\bfseries \partname\nobreakspace\thepart
162     \par
163     \vskip 20\p@
164     \fi
165     \Huge \bfseries ##2\par}%
166     \@endpart}
167 \def\@spart##1{%
168     {\centering
169     \interlinepenalty \@M
170     \normalfont
171     \Huge \bfseries ##1\par}%
172     \@endpart}
173 \def\@endpart{\vfil\newpage
174     \if@twoside
175     \if@openright
176     \null
177     \thispagestyle{empty}%
178     \newpage
179     \fi
180     \fi
181     \if@tempswa
182     \twocolumn
183     \fi}
184 \def\chapter{\if@openright\cleardoublepage\else\clearpage\fi
185     \thispagestyle{plain}%
186     \global\@topnum\z@
187     \@afterindentfalse
188     \secdef\@chapter\@schapter}
189 \def\@chapter[##1]##2{\ifnum \c@secnumdepth >\m@ne
190     \refstepcounter{chapter}%
191     \typeout{\@chapapp\space\thechapter.}%
192     \addcontentsline{toc}{chapter}%

```



```

193                                     {\protect\numberline{\thechapter}##1}%
194                                     \else
195                                     \addcontentsline{toc}{chapter}{##1}%
196                                     \fi
197                                     \chaptermark{##1}%
198                                     \addtocontents{lof}{\protect\addvspace{10\p@}}%
199                                     \addtocontents{lot}{\protect\addvspace{10\p@}}%
200                                     \if@twocolumn
201                                     \topnewpage[\@makechapterhead{##2}]%
202                                     \else
203                                     \@makechapterhead{##2}%
204                                     \@afterheading
205                                     \fi}
206 \def\@makechapterhead##1{%
207   \vspace*{50\p@}%
208   {\parindent \z@ \raggedright \normalfont
209     \ifnum \c@secnumdepth >\m@ne
210       \huge\bfseries \@chapapp\space \thechapter
211       \par\nobreak
212       \vskip 20\p@
213     \fi
214     \interlinepenalty\@M
215     \Huge \bfseries ##1\par\nobreak
216     \vskip 40\p@
217   }}
218 \def\@schapter##1{\if@twocolumn
219   \topnewpage[\@makeschapterhead{##1}]%
220   \else
221   \@makeschapterhead{##1}%
222   \@afterheading
223   \fi}
224 \def\@makeschapterhead##1{%
225   \vspace*{50\p@}%
226   {\parindent \z@ \raggedright
227     \normalfont
228     \interlinepenalty\@M
229     \Huge \bfseries ##1\par\nobreak
230     \vskip 40\p@
231   }}
232 \def\section{\@startsection {section}{1}{\z@}%
233                                     {-3.5ex \@plus -1ex \@minus -.2ex}%
234                                     {2.3ex \@plus .2ex}%
235                                     {\normalfont\Large\bfseries}}
236 \def\subsection{\@startsection{subsection}{2}{\z@}%
237                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
238                                     {1.5ex \@plus .2ex}%
239                                     {\normalfont\large\bfseries}}
240 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}%
241                                     {-3.25ex \@plus -1ex \@minus -.2ex}%
242                                     {1.5ex \@plus .2ex}%
243                                     {\normalfont\normalsize\bfseries}}
244 \def\paragraph{\@startsection{paragraph}{4}{\z@}%

```

```

245         {3.25ex \@plus1ex \@minus.2ex}%
246         {-1em}%
247         {\normalfont\normalsize\bfseries}}
248 \def\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
249         {3.25ex \@plus1ex \@minus.2ex}%
250         {-1em}%
251         {\normalfont\normalsize\bfseries}}
252 }
253
254 \cs_new:Nn \@_book_sectioning_code:
255 {
256   \def\part{%
257     \if@openright
258       \cleardoublepage
259     \else
260       \clearpage
261     \fi
262     \thispagestyle{plain}%
263     \if@twocolumn
264       \onecolumn
265     \@tempwatrue
266   \else
267     \@tempwafalse
268   \fi
269   \null\vfil
270   \secdef\@part\@spart}
271
272 \def\@part[##1]##2{%
273   \ifnum \c@secnumdepth >-2\relax
274     \refstepcounter{part}%
275     \addcontentsline{toc}{part}{\thepart\hspace{1em}##1}%
276   \else
277     \addcontentsline{toc}{part}{##1}%
278   \fi
279   \markboth{}{}%
280   {\centering
281     \interlinepenalty \@M
282     \normalfont
283     \ifnum \c@secnumdepth >-2\relax
284       \huge\bfseries \partname\nobreakspace\thepart
285     \par
286     \vskip 20\p@
287     \fi
288     \Huge \bfseries ##2\par}%
289   \@endpart}
290 \def\@spart##1{%
291   {\centering
292     \interlinepenalty \@M
293     \normalfont
294     \Huge \bfseries ##1\par}%
295   \@endpart}
296 \def\@endpart{\vfil\newpage

```

```

297         \if@twoside
298         \if@openright
299         \null
300         \thispagestyle{empty}%
301         \newpage
302         \fi
303     \fi
304     \if@tempswa
305         \twocolumn
306     \fi}
307 \def\chapter{\if@openright\cleardoublepage\else\clearpage\fi
308             \thispagestyle{plain}%
309             \global\@topnum\z@
310             \@afterindentfalse
311             \secdef\@chapter\@schapter}
312 \def\@chapter[##1]##2{\ifnum \c@secnumdepth >\m@ne
313     \if@mainmatter
314         \refstepcounter{chapter}%
315         \typeout{\@chapapp\space\thechapter.}%
316         \addcontentsline{toc}{chapter}%
317             {\protect\numberline{\thechapter}##1}%
318     \else
319         \addcontentsline{toc}{chapter}{##1}%
320     \fi
321     \else
322         \addcontentsline{toc}{chapter}{##1}%
323     \fi
324     \chaptermark{##1}%
325     \addtocontents{lof}{\protect\addvspace{10\p@}}%
326     \addtocontents{lot}{\protect\addvspace{10\p@}}%
327     \if@twocolumn
328         \@topnewpage[\@makechapterhead{##2}]%
329     \else
330         \@makechapterhead{##2}%
331         \@afterheading
332     \fi}
333 \def\@makechapterhead##1{%
334     \vspace*{50\p@}%
335     {\parindent \z@ \raggedright \normalfont
336     \ifnum \c@secnumdepth >\m@ne
337         \if@mainmatter
338             \huge\bfseries \@chapapp\space \thechapter
339             \par\nobreak
340             \vskip 20\p@
341         \fi
342     \fi
343     \interlinepenalty\@M
344     \Huge \bfseries ##1\par\nobreak
345     \vskip 40\p@
346     }}
347 \def\@schapter##1{\if@twocolumn
348     \@topnewpage[\@makeschapterhead{##1}]%

```

```

349             \else
350             \@makeschapterhead{##1}%
351             \@afterheading
352             \fi}
353 \def\@makeschapterhead##1{%
354     \vspace*{50\p@}%
355     {\parindent \z@ \raggedright
356     \normalfont
357     \interlinepenalty\@M
358     \Huge \bfseries ##1\par\nobreak
359     \vskip 40\p@
360     }}
361 \def\section{\@startsection {section}{1}{\z@}%
362             {-3.5ex \@plus -1ex \@minus -.2ex}%
363             {2.3ex \@plus .2ex}%
364             {\normalfont\Large\bfseries}}
365 \def\subsection{\@startsection{subsection}{2}{\z@}%
366             {-3.25ex\@plus -1ex \@minus -.2ex}%
367             {1.5ex \@plus .2ex}%
368             {\normalfont\large\bfseries}}
369 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}%
370             {-3.25ex\@plus -1ex \@minus -.2ex}%
371             {1.5ex \@plus .2ex}%
372             {\normalfont\normalsize\bfseries}}
373 \def\paragraph{\@startsection{paragraph}{4}{\z@}%
374             {3.25ex \@plus 1ex \@minus .2ex}%
375             {-1em}%
376             {\normalfont\normalsize\bfseries}}
377 \def\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
378             {3.25ex \@plus 1ex \@minus .2ex}%
379             {-1em}%
380             {\normalfont\normalsize\bfseries}}
381 }

```

### 3.5 Class dependent deactivation and implementation

If a KOMA-Script class has been loaded we need use the common deactivation code and the article sectioning code.

`\@@_activation_code:`

```

382 \cs_new:Nn \@@_activation_code:
383 {
384     \ifclassloaded { scrartcl }
385     {
386         \@@_common_komascript_deactivation_code:
387         \@@_article_sectioning_code:
388     }
389 }

```

`\chapterlineswithprefixformat` For scrbook and scrreprt we need additional deactivation code and the book resp. report  
`\chapterlinesformat` sectioning code.

```

390     \ifclassloaded { scrbook }
391     {
392         \@@_common_komascript_deactivation_code:
393         \cs_undefine:N \chapterlineswithprefixformat
394         \cs_undefine:N \chapterlinesformat
395         \@@_book_sectioning_code:
396     }
397     {
398         \ifclassloaded { screprt }
399         {
400             \@@_common_komascript_deactivation_code:
401             \cs_undefine:N \chapterlineswithprefixformat
402             \cs_undefine:N \chapterlinesformat
403             \@@_report_sectioning_code:
404         }
405     }

```

For all other classes, we use a heuristic to either use the sectioning code of `article`, `book`, or `report`

```

406         \cs_if_exist:NTF \chapter
407         {
408             \cs_if_exist:cTF { frontmatter }
409             {
410                 \@@_book_sectioning_code:
411             }
412             {
413                 \@@_report_sectioning_code:
414             }
415         }
416         {
417             \@@_article_sectioning_code:
418         }
419     }
420 }
421 }
422 }

```

`book` (*opt.*) These options can be used to force the usage of one of the selection codes, but only if no `article` (*opt.*) KOMA-Script class has been used. So in the code section we first have to test for a KOMA-`report` (*opt.*) Script class and either throw a warning or do the redefinition of `\@@_activation_code:`.

```

423 \DeclareKeys
424 {
425     article .meta:nn = { @@/internal } { force=article },
426     article .usage   = load,
427     book      .meta:nn = { @@/internal } { force=book },
428     book      .usage   = load,
429     report    .meta:nn = { @@/internal } { force=report },
430     report    .usage   = load,
431 }
432 \keys_define:nn { @@/internal }
433 {
434     force .code =

```

```

435     {
436     \cs_if_exist:NTF \KOMAClassName
437     {
438     \msg_warning:nnn { standardsectioning }
439     { no-force-with-KOMA-Script-class }
440     { #1 }
441     }
442     {
443     \cs_set_eq:Nc \@@_activation_code: { \@_#1_sectioning_code: }
444     }
445     }
446 }
447 \ProcessKeyOptions
448 \@_activation_code:

```

## References

- [Koh23a] Markus Kohm. *KOMA-Script. The Guide*. June 16, 2023. URL: <http://mirrors.ctan.org/macros/latex/contrib/koma-script/scrguide-en.pdf> (visited on 07/14/2023).
- [Koh23b] Markus Kohm. *KOMA-Script. Die Anleitung*. June 16, 2023. URL: <http://mirrors.ctan.org/macros/latex/contrib/koma-script/scrguide-de.pdf> (visited on 07/04/2023).
- [Koh23c] Markus Kohm. *KOMA-Script — A bundle of versatile classes and packages*. Version 3.41. The KOMA-Script bundle provides replacements for the article, report, and book classes with emphasis on typography and versatility. There is also a letter class. July 7, 2023. URL: <https://ctan.org/pkg/koma-script> (visited on 07/14/2023).
- [Koh23d] Markus Kohm. *Emulating Former KOMA-Script Package scrhack*. Version 3.42. July 26, 2023. URL: <https://mirrors.ctan.org/macros/latex/contrib/scrhack/scrhack.pdf> (visited on 07/26/2023).

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## Change History

v0.1 – 2023/06/01

  General: start of KOMA-Script spin-off [1](#)

v0.9 – 2024/06/06

  General: first release [1](#)