

L'extension `appendix` *

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Résumé

L'extension `appendix` fournit quelques éléments pour modifier la composition des titres des annexes. De plus, les environnements `(sub)appendices` sont mis à disposition, par exemple, pour avoir des annexes par chapitre ou par section.

L'extension est conçue pour fonctionner avec les classes qui disposent des commandes `\chapter` et/ou `\section`. Elle n'a pas été testée avec d'autres extensions qui modifient la définition des commandes de sectionnement.

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1 Introduction

Dans les classes standards, la commande `\appendix` effectue les actions suivantes :

- pour les classes avec chapitres :
 - remet à zéro les compteurs `chapter` et `section`,
 - force `\@chapapp` à `\appendixname`,
 - redéfinit `\thechapter` pour produire une numérotation alphabétique des annexes,
- pour les autres classes :
 - remet à zéro les compteurs de section et de sous-section,

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- redéfinit `\thesection` pour produire une numérotation alphabétique des annexes.

L’extension `appendix` offre des possibilités supplémentaires pour les annexes. Elle est compatible avec l’extension `hyperref`¹ mais peut être source de problèmes quand elle est utilisée avec des extensions qui modifient les définitions des commandes de sectionnement.

Des portions de l’extension ont été développées en tant que partie d’une classe et d’un ensemble d’extensions pour la composition de documents au standard ISO [Wil96]. Ce manuel est réalisé conformément aux conventions de l’utilitaire `LATEX DOCSTRIP` qui permet l’extraction automatique du fichier source contenant les macros `LATEX` [GMS94].

La section 2 décrit l’utilisation de l’extension. Le code source de l’extension est, quant à lui, détaillé dans la section 3.

2 L’extension `appendix`

The `appendix` package provides some commands that can be used in addition to the `\appendix` command. It also provides a new environment that can be used instead of the `\appendix` command. The environment provides some additional actions with respect to the simple `\appendix`. First the new commands will be described and then the new environment will be discussed.

`\appendixpage` The `\appendixpage` command will typeset a heading in the style of a `\part` heading for the class. The wording of the heading is given by the value of `\appendixpagename`.

`\addappheadtotoc` This command will insert general heading into the Table of Contents (ToC). The text is given by the value of `\appendixtocname`. If used, the command must come before the first appendix, as it is meant to be used to introduce the appendix titles in the ToC.

The above commands can be used in conjunction with the traditional `\appendix` command, which they should immediately follow. For example :

```
\appendix
\appendixpage
\addappheadtotoc
```

`\noappendicestocpagenum` By default the `\addappheadtotoc` command puts a page number in the ToC. This can be prevented by using `\noappendicestocpagenum`. For symmetry, the `\appendicestocpagenum` command ensures that a page number is put in the ToC.

NOTE : Unless `\noappendicestocpagenum` is used the `\addappheadtotoc` command uses the current page number when it makes the entry in the ToC. The `\appendixpage` command puts a heading in the document like a `\part` heading; in un-chaptered documents the `\part` heading appears in the ordinary run of the text like a `\section` heading, but in chaptered documents it is on a page by itself.

1. Mes remerciements à Hylke W. van Dijk (hylke@ubicom.tudelft.nl) que la version 1.1 ne l’était pas et m’a mis sur la piste pour changer cette situation.

That is, in chaptered documents `\appendixpage` does a `\clear[double]page` typesets the heading, and then does another `\clear[double]page`. Therefore, in a chaptered document the above sequence of commands will use the page number *after* the `\appendixpage` as the ToC entry² and if the ordering is reversed (i.e., `\addappheadtotoc \appendixname`) then the page number *before* `\appendixname` will be used as the ToC entry. For chaptered documents it is probably best to do :

```
\clearpage % or \cleardoublepage
\addappheadtotoc
\appendixpage
```

which will use the page number of `\appendixpage` as the ToC entry.

`\appendixname` The `\appendixname` command is defined in those classes that provide for chapters. It is provided in this package whether or not it has been defined in the class.
`\appendixtocname` It's default value is 'Appendix'. The default value of both `\appendixtocname`
`\appendixpagename` and `\appendixpagename` is 'Appendices'. These names can all be changed via `\renewcommand`. For example,

```
\renewcommand{\appendixtocname}{List of appendices}
```

`appendices` The `appendices` environment can be used instead of the `\appendix` command. It provides more functionality than is possible from the combination of the `\appendix`, `\addappheadtotoc` and `\appendixpage` commands. The functions of the `appendices` environment are usually accessed through the package options, but there are declarations that may be used instead. The options are :

- `toc` Put a header (e.g., 'Appendices') into the Table of Contents (the ToC) before listing the appendices. (This is done by calling the `\addappheadtotoc` command.)
- `page` Puts a title (e.g., 'Appendices') into the document at the point where the `appendices` environment is begun. (This is done by calling the `\appendixpage` command.)
- `title` Adds a name (e.g., 'Appendix') before each appendix title in the body of the document. The name is given by the value of `\appendixname`. Note that this is the default behaviour for classes that have chapters.
- `titletoc` Adds a name (e.g., 'Appendix') before each appendix listed in the ToC. The name is given by the value of `\appendixname`.
- `header` Adds a name (e.g., 'Appendix') before each appendix in page headers. The name is given by the value of `\appendixname`. Note that this is the default behaviour for classes that have chapters.

Depending on the particular package options that are set and the document class, the `appendices` environment may change the definition of elements of the sectioning commands (e.g., `\chapter` or `\section`). This may be a problem if the environment is used in conjunction with any other package that makes changes to these commands. If this is the case, then you will have to examine the code for the `appendices` environment and make any necessary changes to one or the other of the packages (via your own package file). The changes to the sectional heading commands are discarded at the end of the `appendices` environment.

2. With thanks to Eduardo Jacob (edu@kender.es) for pointing this out.

<code>\appendixtocon</code>	<code>\appendixtocon</code> is a declaration equivalent to the <code>toc</code> option. The <code>\appendixtocoff</code>
<code>\appendixtocoff</code>	declaration is equivalent to not using that option.
<code>\appendixpageon</code>	<code>\appendixpagecon</code> is a declaration equivalent to the <code>page</code> option. The
<code>\appendixpageoff</code>	<code>\appendixpageoff</code> declaration is equivalent to not using that option.
<code>\appendixtitleon</code>	<code>\appendixtitleon</code> is a declaration equivalent to the <code>title</code> option. The <code>\appendixtitleoff</code>
<code>\appendixtitleoff</code>	declaration is equivalent to not using that option.
<code>\appendixtitletocon</code>	<code>\appendixtitletocon</code> is a declaration equivalent to the <code>titletoc</code> option. The
<code>\appendixtitletocoff</code>	<code>\appendixtitletocoff</code> declaration is equivalent to not using that option.
<code>\appendixheaderon</code>	<code>\appendixheaderon</code> is a declaration equivalent to the <code>header</code> option. The
<code>\appendixheaderoff</code>	<code>\appendixheaderoff</code> declaration is equivalent to not using that option.
<code>\restoreapp</code>	The <code>appendices</code> environment restores the prior value of the chapter/section counter at the end of the environment, so the environment may be used between the main document divisions. By default, the appendix counter value is saved and restored by the environment. That means that appendices in a series of <code>appendices</code> environments will be lettered sequentially. To make the lettering start from A each time, put the following into the preamble :
	<code>\renewcommand{\restoreapp}{}{}</code>
<code>subappendices</code>	Within the <code>subappendices</code> environment, an appendix is introduced by a <code>\section</code> command in chaptered documents, otherwise it is introduced by a <code>\subsection</code> command. Effectively, this provides for appendices at the end of a main document division, as an integral part of the division. The <code>subappendices</code> environment supports only the <code>title</code> and <code>titletoc</code> options.
<code>\setthesection</code>	By default, the ‘subappendices’ are numbered like normal (sub)sections, except
<code>\setthesubsection</code>	that the (sub)section number itself is typeset as an uppercase letter. This behaviour can be changed by redefining these <code>\setthe...</code> commands. For example, to just have a letter not prepended by the main division number, do :
	<code>\renewcommand{\setthesection}{\Alph{section}}</code> or
	<code>\renewcommand{\setthesubsection}{\Alph{subsection}}</code> as appropriate.

2.1 Problèmes connus

There is an unfortunate interaction between the \LaTeX kernel commands `\include` and `\addcontentsline`. If these are used like this :

```
\addcontentsline{toc}{...}{addtotoc}
\include{import}
```

then the text of the `\addcontentsline` command (‘addtotoc’ in the example) is not written to the appropriate (toc) file until *after* the included file has written all its entries out to the (toc) file. As far as I can tell, there is no way around this behaviour without rewriting parts of the \LaTeX kernel code.

It is thus up to the author to avoid putting an `\addcontentsline` command (or a command that internally uses `\addcontentsline`, as does the `\addappheadtotoc` command) before an `\included` file that writes out to the same file. Things work as expected if the `\addcontentsline` command is placed within the `\included` file, or if the imported file is `\inputed` instead of `\included`.

3 Le code de l'extension

Announce the name and version of the package, which requires L^AT_EX 2_ε.

```
1 \usc
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{appendix}[2009/09/02 v1.2b extra appendix facilities]
4
```

In order to try and avoid name clashes with other packages, each internal name will include the character string @pp.

\if@knownclass@pp These are used when we need to decide what appendix style is being used for the document. Assume the article class or other without chapters.
\if@chapter@pp

```
5 \newif\if@chapter@pp\@chapter@ppfalse
6 \newif\if@knownclass@pp\@knownclass@ppfalse
```

Check the sectioning commands.

```
7 \@ifundefined{chapter}{%
8   \@ifundefined{section}{\@knownclass@pptrue}}{%
9   \@chapter@pptrue\@knownclass@pptrue}
```

\phantomsection We need to provide \phantomsection if hyperref is not used and, whether or not
\the@pps hyperref is used, we need to define a counter here to support potential hyperrefs
\if@pphyper (used to disambiguate (sub)appendices). \if@pphyper is TRUE if the hyperref package is used.

```
10 \providecommand{\phantomsection}{}
11 \newcounter{@pps}
12 \renewcommand{\the@pps}{\alph{@pps}}
13 \newif\if@pphyper
14 \@pphyperfalse
15 \AtBeginDocument{%
16   \@ifpackageloaded{hyperref}{\@pphypertrue}{}}
17
```

\if@dotoc@pp A set of booleans for the options. Default is the appendices environment does
\if@dotitle@pp nothing more than the \appendix command does unless one or more options are
\if@dotitletoc@pp set.

```
18 \newif\if@dotoc@pp\@dotoc@ppfalse
19 \newif\if@dotitle@pp\@dotitle@ppfalse
20 \newif\if@dotitletoc@pp\@dotitletoc@ppfalse
21 \newif\if@dohead@pp\@dohead@ppfalse
22 \newif\if@dopage@pp\@dopage@ppfalse
```

Now we can do the five options.

```
23 \DeclareOption{toc}{\@dotoc@pptrue}
24 \DeclareOption{title}{\@dotitle@pptrue}
25 \DeclareOption{titletoc}{\@dotitletoc@pptrue}
26 \DeclareOption{header}{\@dohead@pptrue}
27 \DeclareOption{page}{\@dopage@pptrue}
```

Process the options now.

28 \ProcessOptions\relax

Issue a warning if \chapter and \section are undefined, then quit.

29 \newcommand{\@ppendinput}{}

30 \if@knownclass@pp\else

31 \PackageWarningNoLine{appendix}%

32 {There is no \protect\chapter\space or \protect\section\space command.\MessageBreak

33 The appendix package will not be used}

34 \renewcommand{\@ppendinput}{\endinput}

35 \fi

36 \@ppendinput

37

\appendixtocon Declarative forms of the toc option.

\appendixtocoff 38 \newcommand{\appendixtocon}{\@dotoc@pptrue}

39 \newcommand{\appendixtocoff}{\@dotoc@ppfalse}

\appendixpageon Declarative forms of the page option.

\appendixpageoff 40 \newcommand{\appendixpageon}{\@dopage@pptrue}

41 \newcommand{\appendixpageoff}{\@dopage@ppfalse}

\appendixtitleon Declarative forms of the title option.

\appendixtitleoff 42 \newcommand{\appendixtitleon}{\@dotitle@pptrue}

43 \newcommand{\appendixtitleoff}{\@dotitle@ppfalse}

\appendixtitletocon Declarative forms of the titletoc option.

\appendixtitletocoff 44 \newcommand{\appendixtitletocon}{\@dotitletoc@pptrue}

45 \newcommand{\appendixtitletocoff}{\@dotitletoc@ppfalse}

\appendixheaderon Declarative forms of the header option.

\appendixheaderoff 46 \newcommand{\appendixheaderon}{\@dohead@pptrue}

47 \newcommand{\appendixheaderoff}{\@dohead@ppfalse}

\@ppsavesec For the appendices environment we need to save and restore the main document
 \@pprestoressec division number and the appendix number. The \restoreapp command is the one
 \@ppsaveapp for the user.

\restoreapp 48 \newcounter{@ppsavesec}

49 \newcounter{@ppsaveapp}

50 \setcounter{@ppsaveapp}{0}

51 \newcommand{\@ppsavesec}{%

52 \if@chapter@pp \setcounter{@ppsavesec}{\value{chapter}} \else

53 \setcounter{@ppsavesec}{\value{section}} \fi}

54 \newcommand{\@pprestoressec}{%

55 \if@chapter@pp \setcounter{chapter}{\value{@ppsavesec}} \else

56 \setcounter{section}{\value{@ppsavesec}} \fi}

57 \newcommand{\@ppsaveapp}{%

58 \if@chapter@pp \setcounter{@ppsaveapp}{\value{chapter}} \else

59 \setcounter{@ppsaveapp}{\value{section}} \fi}

```

60 \newcommand{\restoreapp}{%
61   \if@chapter@pp \setcounter{chapter}{\value{@ppsaveapp}} \else
62     \setcounter{section}{\value{@ppsaveapp}} \fi}

\appendixname These commands hold the names that might be used. \appendixname may have
\appendixtocname been defined in the class. The others are new.
\appendixpagename 63 \providecommand{\appendixname}{Appendix}
64 \newcommand{\appendixtocname}{Appendices}
65 \newcommand{\appendixpagename}{Appendices}

\appendixpage The command to typeset a page announcing the start of the appendices. It is
based on the \part definition (either from the book class or the article class).
66 \newcommand{\appendixpage}{%
67   \if@chapter@pp \@chap@pppage \else \@sec@pppage \fi
68 }

\clear@ppage The non-chaptered classes do not define \if@openright, but we need to use this
for chaptered documents to clear the appropriate pages. \clear@ppage does the
right thing, but must only be called in chapter related code, otherwise there will
be error message like extra \else or extra \fi.
69 \newcommand{\clear@ppage}{%
70   \if@openright\cleardoublepage\else\clearpage\fi}
71

\@chap@pppage Do an appendix page in chapter style. Copy code from the book class \part
command, but use \appendixpagename as the title.
72 \newcommand{\@chap@pppage}{%
73   \clear@ppage
74   \thispagestyle{plain}%
75   \if@twocolumn\onecolumn\@tempwatrue\else\@tempwafalse\fi
76   \null\vfil
77   \markboth{}{}%
78   {\centering
79     \interlinepenalty \@M
80     \normalfont
81     \Huge \bfseries \appendixpagename\par}%
Add to ToC if requested
82   \if@dotoc@pp
83     \addappheadtotoc
84   \fi

In the book class the \part command is finished off by calling \@endpart. There
are two problems with this in this package. (1) \@endpart is not defined in article
style classes and (2) it always throws a blank page which does not look good if
the openany option is used. So, code it all up here.
85   \vfil\newpage
86   \if@twoside
87     \if@openright

```

```

88      \null
89      \thispagestyle{empty}%
90      \newpage
91      \fi
92  \fi
93  \if@tempwa
94      \twocolumn
95  \fi
96 }
97

```

`\@sec@pppage` Copy code from the article class `\part` command, but use `\appendixpagename` as the title.

```

98 \newcommand{\@sec@pppage}{%
99   \par
100   \addvspace{4ex}%
101   \@afterindentfalse
102   {\parindent \z@ \raggedright
103     \interlinepenalty \@M
104     \normalfont
105     \huge \bfseries \appendixpagename%
106     \markboth{}{}\par}%

```

Add to ToC if requested

```

107   \if@dotoc@pp
108     \addappheadtotoc
109   \fi
110   \nobreak
111   \vskip 3ex
112   \@afterheading
113 }
114

```

`\if@pptocpage` The `\addappheadtotoc` command adds an ‘appendices’ line to the ToC. The style is the same as used in `tocbibind` for the ‘List of figures’ line. That is, as a Chapter heading or a Section heading. `\if@pptocpage` controls whether or not a page number is put into the ToC.

`\noappendicestocpagenum`

`\appendicestocpagenum`

`\addappheadtotoc`

```

115 \newif\if@pptocpage
116 \@pptocpagetrue
117 \newcommand{\noappendicestocpagenum}{\@pptocpagefalse}
118 \newcommand{\appendicestocpagenum}{\@pptocpagetrue}
119 \newcommand{\addappheadtotoc}{%
120   \phantomsection
121   \if@chapter@pp
122     Chaptered document
123     \if@pptocpage
124       \addcontentsline{toc}{chapter}{\appendixtocname}%
125     \else
126       \if@pphyper

```



```

126         \addtocontents{toc}%
127         {\protect\contentsline{chapter}{\appendixtocname}{-}{\@currentHref}}}%
128     \else
129         \addtocontents{toc}%
130         {\protect\contentsline{chapter}{\appendixtocname}{-}}}%
131     \fi
132 \fi
133 \else
    Not a chaptered document
134     \if@poptocpage
135         \addcontentsline{toc}{section}{\appendixtocname}%
136     \else
137         \if@pphyper
138             \addtocontents{toc}%
139             {\protect\contentsline{section}{\appendixtocname}{-}{\@currentHref}}}%
140         \else
141             \addtocontents{toc}%
142             {\protect\contentsline{section}{\appendixtocname}{-}}}%
143         \fi
144     \fi
145 \fi
146 }
147

```

For my reference, here is the standard version of the `\appendix` macro, but modified for both chaptered and unchaptered documents.

```

\newcommand{\appendix}{\par
\if@chapter@pp
    \setcounter{chapter}{0}%
    \setcounter{section}{0}%
    \gdef\@chapapp{\appendixname}%
    \gdef\thechapter{\@Alph@c@chapter}
\else
    \setcounter{section}{0}%
    \setcounter{subsection}{0}%
    \gdef\thesection{\@Alph@c@section}
\fi
}

```

And this equivalently is what the `hyperref` package does.

```

\def\Hy@chapterstring{chapter}
\def\Hy@appendixstring{appendix}
\def\Hy@chapapp{\Hy@chapterstring}
\let\Hy@org@appendix\appendix
\def\appendix{%
    \Hy@org@appendix
    \if@chapter@pp

```

```

\gdef\theHchapter{\Alph{chapter}}%
\else
\gdef\theHsection{\Alph{section}}%
\fi
\xdef\Hy@chapapp{\Hy@appendixstring}%
}

```

`\theH@pps` We are going to use `\theH@pps` to disambiguate contents of appendices that might have the same hyperref marks. It is `\provided` as if the `appendix` and `hyperref` are in the ‘wrong’ order then somehow `hyperref` defines it before `appendix` can get to it.

```

148 \providecommand{\theH@pps}{\alph{@pps}}
149

```

`\@resets@pp` Resets the appropriate sectioning counters and names. This does almost exactly what the default `\appendix` command does, except that it saves and restores sectional numbering. It saves the sectional number at the start and restores the appendix number at the end.

```

150 \newcommand{\@resets@pp}{\par
151   \@ppsavesec
152   \stepcounter{@pps}
153   \setcounter{section}{0}%
154   \if@chapter@pp
155     \setcounter{chapter}{0}%
156     \renewcommand\@chapapp{\appendixname}%
157     \renewcommand\thechapter{\@Alph{c@chapter}}%
158   \else
159     \setcounter{subsection}{0}%
160     \renewcommand\thesection{\@Alph{c@section}}%
161   \fi
162   \if@pphyper
    Now handle the hyperref tweaks.
163     \if@chapter@pp
164       \renewcommand{\theHchapter}{\theH@pps.\Alph{chapter}}%
165     \else
166       \renewcommand{\theHsection}{\theH@pps.\Alph{section}}%
167     \fi
168     \def\Hy@chapapp{\appendixname}%
169   \fi
170   \restoreapp
171 }
172

```

`appendices` This is the heart of the package. Start it off by doing the resetting done by the `\appendix` command. Then do the simple options before getting into the complications of redefinitions. Remember to take care of an interaction between `\addappheadtotoc` and `\appendixpage`.

```

173 \newenvironment{appendices}{%
174   \@resets@pp
175   \if@dotoc@pp
176     \if@dopage@pp          % both page and toc
177     \if@chapter@pp        % chapters
178       \clear@ppage
179     \fi
180     \appendixpage
181   \else                    % toc only
182     \if@chapter@pp        % chapters
183       \clear@ppage
184     \fi
185     \addappheadtotoc
186   \fi
187 \else
188   \if@dopage@pp          % page only
189   \appendixpage
190 \fi
191 \fi

```

There is only one other option applicable to the chapter style, so do it now and clear the way for doing the section style. To implement the `titletoc` option, we redefine the `\addcontentsline` command.

```

192 \if@chapter@pp
193   \if@dotitletoc@pp \@redotocentry@pp{chapter} \fi
194 \else

```

The rest of the code is specific to the section style. While we're in the mood we might as well finish off doing the `titletoc` option.

```

195   \if@dotitletoc@pp \@redotocentry@pp{section} \fi

```

The next piece of code implements the header option by providing a special version of `\sectionmark`.

```

196   \if@dohead@pp
197     \def\sectionmark##1{%
198       \if@twoside
199         \markboth{\@formatsecmark@pp{##1}}{}
200       \else
201         \markright{\@formatsecmark@pp{##1}}{}
202       \fi}
203   \fi

```

The next piece of code implements the title option by doing cunning things with the `\@seccntformat`.³

```

204   \if@dotitle@pp
205     \def\sectionname{\appendixname}
206     \def\@seccntformat##1{\@ifundefined{##1name}{}\{\csname ##1name\endcsname\ }%
207       \csname the##1\endcsname\quad}
208   \fi
209 \fi}%

```

3. From a posting to `comp.tex.tex` by Donald Arseneau on 13 August 1998.

At the end of the environment, save the appendix number and restore the sectional number.

```
210 \@ppssaveapp\@pprestoresec}
211
```

`\setthesection` The user commands for specifying the numbering style for subappendices.

```
\setthesubsection 212 \newcommand{\setthesection}{\thechapter.\Alph{section}}
213 \newcommand{\setthesubsection}{\thesection.\Alph{subsection}}
214
```

`\@resets@ppsub` Similar to `\@resets@pp` except that it is for use within the `subappendices` environment; as such, it is a bit simpler.

```
215 \newcommand{\@resets@ppsub}{\par
216 \stepcounter{@pps}
217 \if@chapter@pp
218 \setcounter{section}{0}
219 \renewcommand{\thesection}{\setthesection}
220 \else
221 \setcounter{subsection}{0}
222 \renewcommand{\thesubsection}{\setthesubsection}
223 \fi
224 \if@pphyper
```

Now handle the hyperref tweaks.

```
225 \if@chapter@pp
226 \renewcommand{\theHsection}{\theH@pps.\setthesection}%
227 \else
228 \renewcommand{\theHsubsection}{\theH@pps.\setthesubsection}%
229 \fi
230 \def\Hy@chapapp{\appendixname}%
231 \fi
232 }
233
```

`subappendices` The environment for subappendices. Start it off by doing the resetting of the `\(sub)section` command.

```
234 \newenvironment{subappendices}{%
235 \@resets@ppsub
```

There are two options applicable to the chapter style. To implement the `titletoc` option, we redefine the `\addcontentsline` command.

```
236 \if@chapter@pp
237 \if@dotitletoc@pp \@redotocentry@pp{section} \fi
```

To implement the title option we do cunning things with the `\@secntformat` command.

```
238 \if@dotitle@pp
239 \def\sectionname{\appendixname}
240 \def\@secntformat##1{\ifundefined{##1name}{\csname ##1name\endcsname\ }%
241 \csname the##1\endcsname\quad}
```

```

242     \fi
243   \else
    The rest of the code is for the section style.
244     \ifdotitletoc@pp \@redotocentry@pp{subsection} \fi
245     \ifdotitle@pp
246       \def\subsectionname{\appendixname}
247       \def\@seccntformat##1{\@ifundefined{##1name}{}{\csname ##1name\endcsname\ }}%
248       \csname the##1\endcsname\quad}
249     \fi
250   \fi}{}
251

```

`\@formatsecmark@pp` Formats the page header for a redefined `\sectionmark`.

```

252 \newcommand{\@formatsecmark@pp}[1]{%
253   \MakeUppercase{\appendixname\space
254     \ifnum \c@secnumdepth >\z@
255       \thesection\quad
256     \fi
257   #1}}

```

`\@redotocentry@pp` In order to implement the `titletoc` option we redefine the `\addcontentsline` command which is used to put entries into the ToC. `\@redotocentry@pp{<sect>}` does the redefinition, where `<sect>` is the name of the sectional heading (i.e., either chapter or section).

```

258 \newcommand{\@redotocentry@pp}[1]{%
    Save the original definition of \addcontentsline. Then start the redefinition.
259   \let\oldacl@pp=\addcontentsline
260   \def\addcontentsline##1##2##3{%

```

Check if writing to ToC and appropriate section.

```

261     \def\@pptempa{##1}\def\@pptempb{toc}%
262     \ifx\@pptempa\@pptempb

```

Adding to the ToC file, so check on the sectioning command.

```

263       \def\@pptempa{##2}\def\@pptempb{#1}%
264       \ifx\@pptempa\@pptempb

```

The sectioning command is the same as that specified by the argument to `\@redotocentry@pp`, so get on with the redefinition.

```

265 \oldacl@pp{##1}{##2}{\appendixname\space ##3}%
266   \else

```

The heading was different from the argument. No redefinition is required, so call the original `\addcontentsline`.

```

267     \oldacl@pp{##1}{##2}{##3}%
268   \fi
269   \else

```

Adding to a file that is not the ToC. No redefinition is required, so call the original `\addcontentsline`.

```
270 \oldacl@pp{##1}{##2}{##3}%
271 \fi}
272 }
```

The end of this package.

```
273 </usc>
```

Références

- [GMS94] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. Addison-Wesley Publishing Company, 1994.
- [Wil96] Peter R. Wilson. *LaTeX for standards : The LaTeX package files user manual*. NIST Report NISTIR, June 1996.

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