L'extension tocbibind *

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Résumé

L'extension tocbibind peut être utilisée pour ajouter en table des matières des entrées sur des éléments comme une bibliographie ou un index. L'extension est pensée pour fonctionner avec les quatre classes standards book, report, article et proc comme pour s'utiliser de façon limitée avec la classe ltxdoc. Les résultats avec d'autres classes peuvent être problématiques. Cette extension a été testée avec l'extension tocloft mais n'a pas été testée avec d'autres extension qui changent la définition des commandes `\chapter*` ou `\section*`.

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1 Introduction

Des questions pour ajouter la bibliographie dans les entrées de la table des matières semblent surgir assez régulièrement sur le forum `comp.text.tex`.

L'extension tocbibind fournit une solution pour insérer automatiquement des références à une bibliographie, un index ou tout élément titré d'un document

*Ce fichier (`tocbibind-fr.dtx`) ayant pour numéro de version v1.5k date du 13/10/2010.

en table des matières (tocbibind est censé être une abréviation pour « *Table of Contents*[1]*, Bibliography, Index, etc.*).

Certaines parties de l'extension ont été développées en tant que part d'une classe et d'un ensemble d'extensions traitant de 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 [GM05].

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

2 L'extension tocbibind

L'extension tocbibind permet aux titres de la table des matières, de la liste des figures, de la liste des tables, de la bibliographie et de l'index de figurer comme entrées dans la table des matières. Par défaut, tous ces éléments, s'ils existent, seront incorporés dans la table des matières. Les options d'extension sont disponibles pour empêcher ces ajouts :

- notbib désactive l'ajout de la bibliographie ;
- notindex désactive l'ajout de l'index (l'ajout de l'index pour un document de classe ltxdoc est désactivé systématiquement) ;
- nottoc désactive l'ajout de la table des matières ;
- notlot désactive l'ajout de la Liste des tableaux ;
- notlof désactive l'ajout de la Liste des figures ;
- chapter fait utiliser des titres de niveau « chapitre », si possible ;
- section fait utiliser des titres de niveau « section », si possible ;
- numbib numérote le titre de la bibliographie (par défaut, il n'y a pas de numéro).
- numindex numérote l'index (par défaut, il n'y a pas de numéro) ;
- other utilise une commande de titre non usuelle. Cette option implique l'utilisation de la commande `\tocotherhead` ;
- none désactive tout.

Cette extension est conçue pour fonctionner avec les classes de documents LaTeX standards, à savoir book, report, article, proc et ltxdoc (qui se base dans une large mesure sur la classe article). Dans les classes article, proc et ltxdoc, LaTeX recourt au style de titre `\section*` pour la bibliographie et assimilées, tandis que pour les deux autres classes, il recourt au style de titre `\chapter*`. En l'occurrence, tocbibind suit ces conventions. Cependant, si l'extension est associée à une autre classe (telle une classe pour composer des thèses ayant des conventions différentes), alors les options chapter ou section peuvent être utilisées pour sélectionner le style approprié (mais la classe doit définir `\chapter*` et `\@makeschapterhead`, ou `\section*` respectivement).

Les classes standards, exception faite de ltxdoc, présentent une fonctionnalité avec laquelle la hauteur du titre de l'index diffère de celle des autres sections dans

1. N.D.T. : table des matières.

un document (bug de LaTeX 3126). L'extension tocbibind désactive cette fonctionnalité. Cette désactivation a un effet secondaire : les longueurs `\columnseprule` et `\columnsep` peuvent être réglées via `\setlength` pour modifier l'espace séparant les deux colonnes de l'index et l'épaisseur de la règle placée dans cet espace. L'effet de l'option none revient à limiter les modifications à la seule désactivation de cette fonctionnalité standard.

`\tocotherhead` Dans les classes standards de LaTeX, les titres de la bibliographie et de l'index sont soit définis en terme de commande `\chapter*` ou en terme de commande `\section*`. L'extension retient pour hypothèse que toute classe, autre que les classes standards déjà citée, utilise soit le code des classes standards pour implémenter la bibliographie et autres titres ou utilise un code très similaire. Certaines classes (et peut-être aussi des extensions) modifient les noms des commandes de sectionnement. Un exemple dont j'ai connaissance se sert de `\clause` au lieu de `\section`, `\sclause` au lieu de `\subsection` et ainsi de suite. Si les titres de votre document sont définis comme cela et que le même niveau de titre est utilisé pour la bibliographie et assimilées alors vous pouvez utiliser l'option other et la commande `\tocotherhead{`⟨*commande-de-titre*⟩`}` pour traiter ce point. Si votre document utilise `\clause` alors indiquez `\tocotherhead{clause}` dans le préambule après avoir chargé l'extension. L'extension suppose alors que le titre de la bibliographie est défini en terme de `\clause*`.

Si vous utilisez la commande `\tocotherhead`, elle prime sur les options chapter et section.

`\tocbibname` L'extension essaye de récupérer le nom de la bibliographie dans les définitions de la classe (notez que la classe article et ses dérivées stocke ce nom dans la commande `\refname` tandis que les classes book et report stocke ce nom dans `\bibname`). Cette extension stocke le nom de la bibliographie dans `\tocbibname`.

`\setindexname` `\settocname` `\setlotname` `\setlofname` `\settocbibname` Ces commandes définissent les textes des titres pour l'index, la liste des tables et la liste des figures. Lors de l'utilisation des trois classes standards, le texte du titre est tiré respectivement des commandes `\indexname`, `\contentsname`, `\listtablename` et `\listfigurename` Les titres de texte peuvent être changés en modifiant les commandes standards ou en se servant de `\setindexname{`⟨*nom*⟩`}` pour l'index et les commandes similaires pour les autres titres. De fait, les deux lignes suivantes ont le même effet :

```
\renewcommand{\listfigurename}{Figures}
\setlofname{Figures}
```

Notez que ces commandes remplacent les commandes `\toc...name` *présentes en version 1.1.*

2.1 Numérotation de la liste des figures et autres

Certains auteurs apprécient ou sont contraints de numéroter les titres des « Liste de ». Quelques commandes sont fournies pour simplifier cet usage.

`\simplechapter` `\simplechapterdelim` `\restorechapter` Dans les documents avec chapitre, les titres de type « Liste de » sont composés comme des `\chapter*{}`. La manière naturelle d'obtenir des titres numérotés

serait de les composer comme des `\chapter{}` mais ceci a l'inconvénient potentiel que le mot « Chapitre », ou équivalent, apparaisse devant le titre, ce qui n'est probablement pas souhaité. ✖The `\simplechapter[`⟨*name*⟩`]` command modifies any subsequent `\chapter` commands so that the result looks like that of `\chapter*` except that the chapter number is put on the same line as the title and the value of `\simplechapterdelim` is typeset immediately after the number. By default, `\simplechapterdelim` is empty. If the optional ⟨*name*⟩ argument is present, the ⟨*name*⟩ is typeset before the number. For example :

```
\renewcommand{\simplechapterdelim}{:}
\simplechapter[Chap]
```

will result in `\chapter{First chapter}` being typeset like :
Chap 1 : First chapter.
The `\restorechapter` command resets any subsequent `\chapter` commands to their default behaviour.

`\tocchapter` `\tocsection`

Internally, the Listof commands in the tocbibind package use `\toc@chapter` for typesetting the Listof headings in chaptered documents and `\toc@section` for non-chaptered documents. The `\tocchapter` command modifies the `\toc@chapter` command to use a 'simple chapter' heading. The `\tocsection` command modifies `\toc@section` to typeset using `\section` instead of `\section*`.

For example, to get a numbered List of Figures heading in a chaptered document, put the following in the preamble :

```
\renewcommand{\listoffigures}{\begingroup
   \tocchapter
   \tocfile{\listfigurename}{lof}
\endgroup}
```

while to get a numbered List of Tables in a non-chaptered document :

```
\renewcommand{\listoftables}{\begingroup
   \tocsection
   \tocfile{\listtablename}{lot}
\endgroup}
```

More generally, to number the Table of Contents in a (non-)chaptered document you can do :

```
\renewcommand{\tableofcontents}{\begingroup
   \tocsection
   \tocchapter
   \tocfile{\contentsname}{toc}
\endgroup}
```

The `\begingroup` `\endgroup` pairing keeps the changes local.

2.2 Page styles

The package, by default, supports the standard `empty`, `plain`, and `headings` page styles. Other page styles, for example ones you specify yourself via the fancyhdr package, are indirectly supported.

As an example, assume that you are using the fancyhdr package and you use a `fancy` pagestyle in a book/report class document like :

```
\pagestyle{fancy}
\renewcommand{\chaptermark}[1]{\markboth{\thechapter.\ #1}{}}
```

then you will find that the chapter titles in headers are in normalcase but the ToC, etc., headers are still in uppercase.

`\tocetcmark` In this package, the marks for the ToC, LoF...headers are specified via the command `\tocetcmark{`⟨*head*⟩`}`. To match the `fancy` pagestyle this must be redefined, like :

```
\pagestyle{fancy}
\renewcommand{\chaptermark}[1]{\markboth{\thechapter.\ #1}{}}
\renewcommand{\tocetcmark}[1]{\markboth{#1}{}}
```

which will give normalcase headers for the ToC, LoF.... As these are not normally numbered, it would be a misjudgement to try and get a non-existent chapter number into the header.

Documents with sections, but not chapters, can be treated in a similar manner by redefining `\tocetcmark` appropriately.

2.3 Package Defined Listof...

There are packages, such as listings and ccaption, that provide new Listof lists. These can be handled by the tocbibind package in a similar manner to the usual Listofs. Two examples are given below.

The listings package version 0.2 provides a `\lstlistoflistings` command to print a list of listings. The header name for this list is in `\lstlistingname` and the listing file has the extension `lol`. This can be treated just like the `\listoffigure`, etc., commands. To add the List of Listings header to the ToC do :

```
\renewcommand{\lstlistoflistings}{\begingroup
   \tocfile{\lstlistingname}{lol}
\endgroup}
```

and to number the Listof heading do :

```
\renewcommand{\lstlistoflistings}{\begingroup
   \tocsection
   \tocchapter
   \tocfile{\lstlistingname}{lol}
\endgroup}
```

The ccaption package enables authors to define new kinds of floats (together with their captions) and Listof for each new kind of float. The command to define a new float is essentially `\newfloatlist{`⟨*fenv*⟩`}{`⟨*ext*⟩`}{`⟨*listname*⟩`}{`⟨*capname*⟩`}`, where ⟨*fenv*⟩ is the name of the new float environment and ⟨*ext*⟩ is the file extension for the listof file. The typesetting of the Listof listing is called by the command `\listoffenv`, where `fenv` is the name ⟨*fenv*⟩. For example, a new float environment for diagrams could be defined via
`\newfloatlist{diagram}{dia}{List of Diagrams}{Diagram}`, and the Listof called for by
`\listofdiagram`

In this case, to add the 'List of Diagrams' to the ToC it is necessary to define a new listof command, and use this in place of the `\listoffenv`. For the diagram example this could be (unnumbered) :

```
\newcommand{\listofdia}{\begingroup
   \tocfile{List of Diagrams}{dia}
\endgroup}
```

and correspondingly for a numbered version :

```
\newcommand{\listofdia}{\begingroup
   \tocsection
   \tocchapter
   \tocfile{List of Diagrams}{dia}
\endgroup}
```

and then use `\listofdia` instead of `\listofdiagram`.

2.4 Abstracts

On rare occasions a publisher may want an abstract listed in the ToC. This package does not provide for that, partly because it is easier to do than the other headings. Just proceed along the lines below, where `section` might have to be `chapter`, and if you are using the hyperref package you have to use the `\phantomsection` macro.

```
\begin{abstract}
% \phantomsection  % required if using hyperref
\addcontentsline{toc}{section}{\abstractname}
... rest of the abstract
```

3 Le code de l'extension

Announce the name and version of the package, which requires LaTeX 2_ε.

1 ⟨∗usc⟩

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{tocbibind}[2010/10/13 v1.5k extra ToC listings]
```

\PRWPackageNote
\PRWPackageNoteNoLine

These two commands write a package Note to the terminal and log file. Use as `\PRWPackageNote{`⟨*package name*⟩`}{`⟨*note text*⟩`}`. The NoLine version does not show the line number. The commands are intermediate between the kernel `\PackageWarning` and `\PackageInfo` commands. I have provided them as other packages (of mine) may also incorporate them. The code is based on `lterror.dtx`.

```
\providecommand{\PRWPackageNote}[2]{%
  \GenericWarning{%
    (#1)\@spaces\@spaces\@spaces\@spaces
  }{%
    Package #1 Note: #2%
   }%
}
\providecommand{\PRWPackageNoteNoLine}[2]{%
  \PRWPackageNote{#1}{#2\@gobble}%
}

```

\@bibquit
\if@bibchapter

We need to know what sectional divisions are supported.

```
\newcommand{\@bibquit}{}
\newif\if@bibchapter
\@ifundefined{chapter}{%
  \@bibchapterfalse
  \@ifundefined{section}{%
    \PackageWarning{tocbibind}%
      {I don't recognize any sectional divisions.\MessageBreak
       I hope you have used the 'other' option\MessageBreak
       otherwise I'll ignore the package}
    \renewcommand{\@bibquit}{\endinput}
    }{\PackageInfo{tocbibind}{The document has section divisions}}
  }{\@bibchaptertrue
    \PackageInfo{tocbibind}{The document has chapter divisions}}

```

\if@inltxdoc

This is used as a flag for the ltxdoc class. This has a particular kind of index that I am not going to mess with.

```
\newif\if@inltxdoc
\@ifclassloaded{ltxdoc}{\@inltxdoctrue}{\@inltxdocfalse}

```

\if@dotocbib
\if@dotocind
\if@dotoctoc
\if@dotoclot
\if@dotoclof

A set of booleans for deciding what is to go into the ToC. By default add everything.

```
\newif\if@dotocbib\@dotocbibtrue
\newif\if@dotocind\@dotocindtrue
\newif\if@dotoctoc\@dotoctoctrue
\newif\if@dotoclot\@dotoclottrue
\newif\if@dotoclof\@dotocloftrue
```

```
37
```

`\if@donumbib` `\if@donumindex` A set of booleans for deciding whether or not to produce numbered headings (default is to do unnumbered headings).

```
38 \newif\if@donumbib\@donumbibfalse
39 \newif\if@donumindex\@donumindexfalse
```

`\if@dot@cb@bsection` If TRUE, use a section heading for the bibliography no matter what the main document divisions are.

```
40 \newif\if@dot@cb@bsection\@dot@cb@bsectionfalse
41
```

Now we can do the options. Most of them are easy.

```
42 \DeclareOption{section}{\@bibchapterfalse}
43 \DeclareOption{notbib}{\@dotocbibfalse}
44 \DeclareOption{notindex}{\@dotocindfalse}
45 \DeclareOption{nottoc}{\@dotoctocfalse}
46 \DeclareOption{notlot}{\@dotoclotfalse}
47 \DeclareOption{notlof}{\@dotocloffalse}
48 \DeclareOption{numbib}{\@donumbibtrue}
49 \DeclareOption{numindex}{\@donumindextrue}
50
```

The chapter option needs to check whether or not the chapter heading commands are defined. If they are not, then go with the section level headings.

```
51 \DeclareOption{chapter}{%
52   \if@bibchapter\else
53     \PackageWarning{tocbibind}%
54                    {Chapters are undefined, using section instead}
55   \fi}
56
```

The other option makes `\@bibquit` a no-op and cancels any chapter based processing.

```
57 \DeclareOption{other}{\renewcommand{\@bibquit}{}
58                       \@bibchapterfalse}
```

The none option turns everything off.

```
59 \DeclareOption{none}{%
60   \@dotocbibfalse
61   \@dotocindfalse
62   \@dotoctocfalse
63   \@dotoclotfalse
64   \@dotocloffalse
65   \@donumbibfalse
66   \@donumindexfalse
67 }
```

Process the options now, and then quit if necessary.

```
68 \ProcessOptions\relax
69 \@bibquit
70
```

Issue a note about the heading style being used.

```
\if@bibchapter
  \PRWPackageNoteNoLine{tocbibind}{Using chapter style headings, unless overridden}
\else
  \PRWPackageNoteNoLine{tocbibind}{Using section or other style headings}
\fi
```

Ensure that the index is not processed if it is an ltxdoc class.

```
\if@inltxdoc \@dotocindfalse \fi

```

\@tocextra
\tocotherhead

`\@tocextra` is the internal command to store the heading command name. `\tocotherhead{`⟨*name*⟩`}` is the user command to set the heading command ⟨*name*⟩ (without the backslash). The default is section.

```
\newcommand{\@tocextra}{section}
\newcommand{\tocotherhead}[1]{\renewcommand{\@tocextra}{#1}}

```

\tocetcmark
\prw@mkboth
\toc@section
\toc@headstar

Utility macros, as the code that they represent gets used several times over. They deal with marking for page headers (code taken from `classes.dtx`), and adding starred sectional headings to the ToC.

`\tocetcmark{`⟨*text*⟩`}` is the default mark code as called by sectional headings.

```
\newcommand{\tocetcmark}[1]{%
  \@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}}
```

`\prw@mkboth{`⟨*text*⟩`}` is used later for the ToC headings.

```
\newcommand{\prw@mkboth}[1]{\tocetcmark{#1}}
```

`\toc@section{`⟨*sec*⟩`}{`⟨*text*⟩`}` is a generalised version of `\sec*{`⟨*text*⟩`}` which also makes an entry of ⟨*text*⟩ into the ToC, where ⟨*sec*⟩ is the name of a sectional division (with no backslash). `\toc@headstar{`⟨*sec*⟩`}{`⟨*text*⟩`}` is similar except that it makes no entry into the ToC.

```
\newcommand{\toc@section}[2]{%
  \@nameuse{#1}*{#2\prw@mkboth{#2}}
  \addcontentsline{toc}{#1}{#2}}
\newcommand{\toc@headstar}[2]{%
  \@nameuse{#1}*{{#2}}}
```

\toc@chapter

`\toc@chapter{`⟨*text*⟩`}` is equivalent to `\chapter*{`⟨*text*⟩`}` except that it makes an entry into the ToC.

Until version 1.5f the chapter part of the code was `\chapter*{#1\prw@mkboth{#1}}`. On 2003/03/12 James Szinger [2] wrote that this failed for a bibliography in a two column book; the page headings for the previous chapter continued through the bibliography! James suggested that the mark part should be moved outside the chapter part (as is now done). I have no idea why there should have been this problem. As part of looking at it I even replaced the `\toc@chapter` as used in

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the `thebibliography` environment with the standard book class definition, which failed as well.

```
\newcommand{\toc@chapter}[1]{%
  \chapter*{#1}\prw@mkboth{#1}
  \addcontentsline{toc}{chapter}{#1}}
```

`\tocbibname` This holds the text for the Bibliography heading. We try and get the text from the class (either `\bibname` or `\refname`).

```
\ifx\bibname\undefined
  \ifx\refname\undefined
    \newcommand{\tocbibname}{References}
  \else
    \newcommand{\tocbibname}{\refname}
  \fi
\else
  \newcommand{\tocbibname}{\bibname}
\fi
```

`\setindexname` `\settocname` `\setlotname` `\setlofname` `\settocbibname` The remaining heading texts are simpler as we only need to check if their respective names are defined in the class. Note that these commands in version 1.2 have been changed from version 1.1 in order to integrate with the tocloft package (which operates with the `\contentsname` etc commands).

```
\providecommand{\indexname}{Index}
\newcommand{\setindexname}[1]{\renewcommand{\indexname}{#1}}
\providecommand{\contentsname}{Contents}
\newcommand{\settocname}[1]{\renewcommand{\contentsname}{#1}}
\providecommand{\listtablename}{List of Tables}
\newcommand{\setlotname}[1]{\renewcommand{\listtablename}{#1}}
\providecommand{\listfigurename}{List of Figures}
\newcommand{\setlofname}[1]{\renewcommand{\listfigurename}{#1}}
\newcommand{\settocbibname}[1]{\renewcommand{\tocbibname}{#1}}
```

The rest is just hacking the various environments and commands from `classes.dtx`.

Following a suggestion by Donald Arseneau (CTT, 'Re : memoir, natbib, and chapterbib', 9 Jan 2003), use `\bibsection` as a hook into `thebibliography` for the style of the heading.

`\t@cb@bchapsection` `\t@cb@bsection` Internal macros holding the heading for `thebibliography`.

```
\newcommand{\t@cb@bchapsec}{%
  \if@bibchapter
    \if@donumbib
      \chapter{\tocbibname}%
    \else
      \toc@chapter{\tocbibname}%
    \fi
  \else
    \if@donumbib
```

```
      \@nameuse{\@tocextra}{\tocbibname}%
    \else
      \toc@section{\@tocextra}{\tocbibname}%
    \fi
  \fi}
\newcommand{\t@cb@bsection}{%
  \if@donumbib
    \@nameuse{\@tocextra}{\tocbibname}%
  \else
    \toc@section{\@tocextra}{\tocbibname}%
  \fi}

```

Redefine `thebibliography`, but only if requested. Take care that the natbib package has not already modified the environment, noting that natbib defines and uses `\bibsection`.

```
\if@dotocbib
  \@ifpackageloaded{natbib}{}{% natbib not loaded
```

The natbib package has not been used (yet), so go ahead and change the environment.

`\bibsection` Macro holding heading for `thebibliography`.

```
    \newcommand{\bibsection}{\t@cb@bchapsec}

```

`thebibliography`

```
    \renewenvironment{thebibliography}[1]{%
      \bibsection
      \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}

```

`thebibitemlist` Just as a matter of style, I have extracted the list making code from the definition of the `thebibliography`. It might also make it easier for someone to change the list environment. The code is a straight copy from `classes.dtx`.

```
  \newenvironment{thebibitemlist}[1]{
    \list{\@biblabel{\@arabic\c@enumiv}}%
         {\settowidth\labelwidth{\@biblabel{#1}}%
          \leftmargin\labelwidth
          \advance\leftmargin\labelsep
          \@openbib@code
          \usecounter{enumiv}%
          \let\p@enumiv\@empty
          \renewcommand\theenumiv{\@arabic\c@enumiv}}%
    \sloppy
    \clubpenalty4000
    \@clubpenalty \clubpenalty
    \widowpenalty4000%
    \sfcode`\.\@m}
   {\def\@noitemerr
     {\@latex@warning{Empty `thebibliography' environment}}%
```

```
153      \endlist}
154
```

\sectionbib The chapterbib package defines a macro \sectionbib which, if its sectionbib option is used, it calls at the beginning of the document to fiddle with the thebibliography environment (but it doesn't work when it is renewed as above). We need to disable the macro because we do our own fiddling

```
155   \@ifpackagewith{chapterbib}{sectionbib}%
156     {\renewcommand{\sectionbib}[2]{}}%
157     {}
158
```

This is the end of \if@dotocbib.

```
159 \fi
160
```

At the end of the preamble we have to check if the natbib and/or chapterbib packages have been loaded after the tocbibind package. If this is the case, we have to make sure that we have control with respect to their sectionbib options.

```
161 \AtBeginDocument{%
162   \@ifpackagewith{natbib}{sectionbib}{\@dot@cb@bsectiontrue}{}
```

If the chapterbib package was loaded before tocbibind we have already killed \sectionbib. If chapterbib has been loaded afterwards we must kill \sectionbib now before it gets used.

```
163   \@ifpackagewith{chapterbib}{sectionbib}%
164     {\@dot@cb@bsectiontrue
165      \@ifundefined{sectionbib}{}{\def\sectionbib#1#2{}}}%
166     {}
167
```

Lastly, use our definition of \bibsection for the thebibliography environment.

```
168   \if@dotocbib
169     \if@dot@cb@bsection
170       \renewcommand{\bibsection}{\t@cb@bsection}%
171     \else
172       \renewcommand{\bibsection}{\t@cb@bchapsec}%
173     \fi
174   \fi
```

This is the end of \AtBeginDocument

```
175 }
176
```

theindex In an earlier version of this package, for reasons that I didn't understand, I had to add/remove some vertical space around the Index heading to make its height match other chapter/section headings. In an unrelated thread on the comp.text.tex newsgroup, Donald Arseneau pointed out that that this effect was a known feature of the standard classes and recorded as latex bug 3126, and was caused by misplaced topskips. The following removes this feature for all except the doc class.

The first bit of code is a copy from `classes.dtx`.

```
\if@inltxdoc\else
 \renewenvironment{theindex}%
   {\if@twocolumn
      \@restonecolfalse
    \else
      \@restonecoltrue
    \fi
```

This next bit is where we make the package changes. Note that in the default definition the values for `\columnseprule` and `\columnsep` were set at this point to be `0pt` and `35pt` respectively. They are not set in this definition so that they can be adjusted by the user, if necessary, before starting the environment.

```
    \if@bibchapter
       \if@donumindex
         \refstepcounter{chapter}
         \twocolumn[\vspace*{2\topskip}%
                    \@makechapterhead{\indexname}]%
         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
         \chaptermark{\indexname}
       \else
         \if@dotocind
           \twocolumn[\vspace*{2\topskip}%
                      \@makeschapterhead{\indexname}]%
           \prw@mkboth{\indexname}
           \addcontentsline{toc}{chapter}{\indexname}
         \else
           \twocolumn[\vspace*{2\topskip}%
                      \@makeschapterhead{\indexname}]%
           \prw@mkboth{\indexname}
         \fi
       \fi
    \else
       \if@donumindex
         \twocolumn[\vspace*{-1.5\topskip}%
                    \@nameuse{\@tocextra}{\indexname}]%
         \csname \@tocextra mark\endcsname{\indexname}
       \else
         \if@dotocind
           \twocolumn[\vspace*{-1.5\topskip}%
                      \toc@headstar{\@tocextra}{\indexname}]%
           \prw@mkboth{\indexname}
           \addcontentsline{toc}{\@tocextra}{\indexname}
         \else
           \twocolumn[\vspace*{-1.5\topskip}%
                      \toc@headstar{\@tocextra}{\indexname}]%
           \prw@mkboth{\indexname}
         \fi
       \fi
    \fi
```

Now we are back to the original code.

```
    \thispagestyle{plain}\parindent\z@
    \parskip\z@ \@plus .3\p@\relax
    \let\item\@idxitem}
    {\if@restonecol\onecolumn\else\clearpage\fi}
\fi
```

`\toc@start` `\toc@finish` These two macros deal with the start and finish of the `\tableofcontents` and friends by adjusting the column settings if need be.

```
\newcommand{\toc@start}{%
  \if@bibchapter
    \if@twocolumn
      \@restonecoltrue\onecolumn
    \else
      \@restonecolfalse
    \fi
  \fi}

\newcommand{\toc@finish}{%
  \if@bibchapter
    \if@restonecol\twocolumn\fi
  \fi}
```

`\tocfile` The code for `\tableofcontents`, `\listoftables` and `\listoffigures` is virtually identical in each case, except for the heading text. `\tocfile` embodies the common code. This is virtually a parameterized copy from `classes.dtx`, except that it handles the differences between the article class and the other two, and incorporates the code for additions to the ToC. It is a useful hook if any other package wants to extend tocbibind for other kinds of listings.

The command is `\tocfile{`⟨*head-text*⟩`}{`⟨*file-extension*⟩`}`, where ⟨*head-text*⟩ is the heading (e.g., List of Figures) and ⟨*file-extension*⟩ is the file extension (e.g., `lof`).

```
\newcommand{\tocfile}[2]{%
  \toc@start
```

The next bit is for the heading changes.

```
  \if@bibchapter
    \toc@chapter{#1}
  \else
    \toc@section{\@tocextra}{#1}
  \fi
```

And finish up with a parameterized call to start the listing and tidy up.

```
  \@starttoc{#2}
  \toc@finish}
```

`\tableofcontents` If requested, we redefine this command, using `\tocfile` to do all the work for us.

```
\if@dotoctoc
  \renewcommand{\tableofcontents}{%
    \tocfile{\contentsname}{toc}
  }
\fi

```

`\listoftables` This is almost identical to the code for `\tableofcontents`

```
\if@dotoclot
  \renewcommand{\listoftables}{%
    \tocfile{\listtablename}{lot}
  }
\fi

```

`\listoffigures` This is almost identical to the code for `\tableofcontents`

```
\if@dotoclof
  \renewcommand{\listoffigures}{%
    \tocfile{\listfigurename}{lof}
  }
\fi

```

`\simplechapter` `\restorechapter` `\simplechapterdelim` The `\simplechapter` command modifies the `\@makechapterhead` command to result in an appearance akin to `\@makeschapterhead`, and is based on the latter. The `\restorechapter` command restores everything back to its original state. The value of `\simplechapterdelim` is appended to the chapter number before the title text.

```
\newcommand{\simplechapter}[1][\@empty]{%
  \let\@tbiold@makechapterhead\@makechapterhead
  \renewcommand{\@makechapterhead}[1]{%
    \vspace*{50\p@}%
    {\parindent \z@ \raggedright
     \normalfont
     \interlinepenalty\@M
     \Huge\bfseries #1\space\thechapter\simplechapterdelim\space
        ##1\par\nobreak
     \vskip 40\p@
   }}
}
\newcommand{\restorechapter}{%
  \@ifundefined{@tbiold@makechapterhead}{}%
  {\let\@makechapterhead\@tbiold@makechapterhead}
}
\newcommand{\simplechapterdelim}{}

```

`\tocchapter` `\tocsection` These two commands modify the `\toc@chapter` and `\toc@section` commands to make numbered Listof headings.

```
\newcommand{\tocchapter}{%
  \providecommand{\@makechapterhead}{}
  \simplechapter
  \renewcommand{\toc@chapter}[1]{\chapter{##1}}
}
\newcommand{\tocsection}{%
  \renewcommand{\toc@section}[2]{\@nameuse{##1}{##2}}
}

```

The end of this package.

```
⟨/usc⟩
```

✖

Références

[GM05] Michel Goossens et Frank Mittelbach. *LaTeX Companion*, 2e éd., Pearson, 2005.

[Wil96] Peter R. Wilson. *LaTeX for standards : The LaTeX package files user manual*. NIST Report NISTIR, juin 1996.

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