The tableof package

Package version: v1.4d (2024/09/17)

Documentation generated from tableof.dtx with timestamp 17-09-2024 at 10:15:25 CEST @2012, 2013, 2015, 2018, 2021, 2024 Jean-François Burnol <jfbu (at) free (dot) fr>

Abstract

Provides \toftagstart{}, \toftagstop{}, \toftagthis{}, \tofuntagthis{} to tag chapters, sections or any other sectioning units destined to end up in the table(s) of contents. Then each one of

\tableof{required tags}
or \tableoof{excluded tags}
or \tableoftaggedcontents{required tags}{excluded tags}

typesets a table of contents (with no heading) obeying the conditions. These macros can each be used multiple times in the document with varying arguments.

If the document contains no usage of \tableofcontents, the preamble should also contain an additional \AtBeginDocument{\tofOpenTocFileForWrite}.

The main \tableofcontents can also be influenced by tags like this:

```
\nexttocwithtags{required tags}{excluded tags}
\tableofcontents
```

Depending on the document class and packages, \tableofcontents however may be usable only once, contrarily to the \tableof{} et al. package macros.

Contents

1	Tag	ging commands	2
	1.1	\toftagstart {tag1, tag2, \ldots } and \toftagstop {tag1, tag2,	
		}	2
	1.2	\toftagthis {tag1, tag2, \ldots } and \tofuntagthis {tag1, tag2,	_
	1.0	····} · · · · · · · · · · · · · · · · ·	2
	1.3	Spaces	2
2	Tab	le of contents commands	3
	2.1	<pre>\nexttocwithtags {required tag1, required tag2,}{excluded</pre>	
		<pre>tag1, excluded tag2,}</pre>	3
		2.1.1 starred variants	3
	2.2	<pre>\tableoftaggedcontents {required tag1, required tag2,}{ex-</pre>	
			3
		2.2.1 starred variants	3
	2.3	<pre>\tableof {required tag1, required tag2,}</pre>	4
	2.4	<pre>\tablenotof {excluded tag1, excluded tag2,}</pre>	4
	2.5	\tofOpenTocFileForWrite	4
3	Con	npatibility with other packages	4
4	Vers	sion History	5
5	Imp	lementation	6

1 Tagging commands

1.1 \toftagstart {tag1, tag2, ...} and \toftagstop {tag1, tag2, ...}

These commands have a mandatory argument which is a comma separated list of tags. The tags need not have been predeclared.

```
\toftagstart{kitchenware, weaponry, gastronomy}
\section{Dealing with knives} % tagged with kitchenware+weaponry+gastronomy
\toftagstop{kitchenware}
\section{Hunting rabbits} % tagged with weaponry+gastronomy
\toftagstart{tag1}
\subsection{This is tagged, too} % tagged with weaponry+gastronomy+tag1
\toftagstop{weaponry}
\section{Eating rabbits} % tagged with gastronomy+tag1
```

1.2 \toftagthis {tag1, tag2, ...} and \tofuntagthis {tag1, tag2, ...}

The \toftagthis command flags with the comma separated values from its list argument only the *next* sectioning command. The effect is not cumulative: it is the last use of \toftagthis which counts; use it for all the needed tags at once.

The \tofuntagthis command similarly untags only the *next* entry. Similarly, only the tags in the last call of \tofuntagthis are taken into account.

```
\toftagstart{kitchenware, rabbits}
\section{Knives and rabbits} % tagged with kitchenware and rabbits
\tofuntagthis{kitchenware}
\subsection{Hunting rabbits} % tagged only with rabbits
\subsection{Best knives for cooking} % tagged with kitchenware and rabbits
```

```
\toftagstart{ecology}
\toftagthis{climate}
\section{Knives and global climate} % tagged with kitchenware+rabbits+ecology+climate
```

```
\toftagstop{kitchenware}
\section{The rabbit in the wild} % tagged with rabbits+ecology
```

1.3 Spaces

Spaces in tags and around commas in tag lists are transparently removed. Tags may be macros, they are completely expanded before use.

2 Table of contents commands

2.1 \nexttocwithtags {required tag1, required tag2, ...}{excluded tag1, excluded tag2, ...}

This command influences the next \tableofcontents (or equivalent) command:

\nexttocwithtags{A, B}{C, D, E}
\tableofcontents

will let \tableofcontents print only the sectioning units having been flagged with both A and B and none of C, D, or E.

DO NOT FORGET THE SECOND PAIR OF BRACES EVEN IF YOU ONLY WANT TO REQUIRE SOME TAGS: \nexttocwithtags{tag1, tag2}{}.

2.1.1 starred variants

There are starred variants:

```
\nexttocwithtags{A, B}{C, D, E} % A and B and neither C nor D nor E
\nexttocwithtags*{A, B}{C, D, E} % (A or B) and neither C nor D nor E
\nexttocwithtags{A, B}*{C, D, E} % A and B and (not C or not D or not E)
\nexttocwithtags*{A, B}*{C, D, E} % (A or B) and (not C or not D or not E)
```

2.2 \tableoftaggedcontents {required tag1, required tag2, ...}{excluded tag1, excluded tag2, ... }

This command is provided in case the document class allows only a single use of \tableofcontents, indeed \tableoftaggedcontents can be used arbitrarily many times. However it does not typeset a heading. Example:

```
\section*{A table of tagged contents} % <- needs to be explicitely added
\tableoftaggedcontents{weaponry, hunting}{ecology, climate}</pre>
```

This will limit the printed TOC entries to the ones which have been tagged with weaponry and also with hunting, but not with ecology and neither with climate.

2.2.1 starred variants

There are starred variants:

```
\tableoftaggedcontents{A, B}{C, D, E} % A and B and neither C nor D nor E
\tableoftaggedcontents*{A, B}{C, D, E} % (A or B) and neither C nor D nor E
\tableoftaggedcontents{A, B}*{C, D, E} % A and B and (not C or not D or not E)
\tableoftaggedcontents*{A, B}*{C, D, E} % (A or B) and (not C or not D or not E)
```

2.3 \tableof {required tag1, required tag2, ...}

This is equivalent to \tableoftaggedcontents{required tag1, ...}{}.

There is a starred variant:

2.4 \tablenotof {excluded tag1, excluded tag2, ...}

This is equivalent to \tableoftaggedcontents{}{excluded tag1, ...}.

\tablenotof{weaponry, hunting}
% will print the entries NOT tagged with weaponry NEITHER with hunting

There is a starred variant:

\tablenotof*{weaponry, hunting}
% will print the entries NOT tagged with weaponry OR NOT tagged with hunting

2.5 \tofOpenTocFileForWrite

The contents of the .toc file (if it already exists) are read into memory by **tableof** once, at the time of $\begin{document}.^1$ Notice that this reading of the .toc file into memory is only of relevance if the document makes use of one of the \tableoftaggedcontents , \tableof or \tableoft commands.

The creation of the .toc file is *not* dealt with by **tableof** itself: either this will be done by a standard \tableofcontents command somewhere in the document, or, one may use the package provided command \tofOpenTocFileForWrite which does not display anything and just does what its name indicates. This command should **not** be used in the preamble, however

```
\usepackage{tableof}
\AtBeginDocument{\tofOpenTocFileForWrite}
```

is possible.

Please consider: this command should *not* be used when the document makes use of its own \tableofcontents or equivalent. It is provided *only* for the case where the document uses *exclusively* \tableoftaggedcontents, \tableof and \tablenotof.

3 Compatibility with other packages

tableof requires the document .toc file to use the \contentsline macro (possibly patched by other packages). It is thus incompatible with the beamer class. However, if beamer is used in an article mode, i.e., with the article class in conjunction with the beamerarticle package, then **tableof** should work.

¹New with 1.3. Earlier versions read the .toc file at the time of \usepackage{tableof}. But this could cause a problem if the .toc file used characters not yet activated by Babel.

4 Version History

tableof adds the tag data to the .toc file, but this data self-defines itself to do nothing when not activated by **tableof**'s own commands. Since release 1.3, these redefinitions are done in *one single* line of the .toc file to circumvent interference of biblatex which adds commands to the .toc line on every other line (thus, potentially right in the middle of multi-line commands :-(.)

No testing has actually been done of compatibility with packages manipulating tables of contents, apart from etoc.² It went fine.

4 Version History

2024/09/17	v1.4d:	reestablish compatibility with hyperref, which got broken at the latter v7.01c release. The package now requires LATEX 2020-10-01. Thanks to Ekkart Kleinod for report.
2021/07/05	v1.4c:	ensure the added scope-limiting group for and alike macros encompasses all contents of the .toc file even in presence of packages hacking into these contents (in par- ticular biblatex).
2018/10/02	v1.4b:	fix for situations when a \clearpage before the \end{document} resulted in the loss of the \tof@finish token from .toc file, causing the package to misbehave. The package atveryend is now required. ³
2015/03/10		<pre>changes in the code to make it more easily patchable by other packages (I have especially the next release of etoc in mind): changes to the way \tof@begin, \tof@finish are set up, new \tof@global which defaults to nothing but may be set to be \global (this is in view of doing TOCs as tabulars of longtables, in the way etoc 1.08 will permit).</pre>
		improved sectioning of the documentation.
2015/02/20		some code efficiency improvements (perhaps).
		improved documentation.
2015/02/11		comma separated lists of tags now allow spaces.
	ii.	only one line used for the .toc code silently unactivating tableof if its \usepackage{tableof} has been removed from the document source. (needed due to aggressive biblatex interference with .toc files.)
	iii.	reading of .toc file is delayed to \begin{document} to account for possible Babel active characters used therein. Not rele- vant if document uses standard \tableofcontents or like commands.
2013/03/04	v1.2: i.	added \tableoftaggedcontents as a wrapper for using \next- tocwithtags followed with tableof's private copy of the .toc data.
	ii.	added \if@filesw test to \tofOpenTocFileForWrite.
2012/12/13	v1.1: i.	new command \nexttocwithtags.

²http://www.ctan.org/pkg/etoc

³http://www.ctan.org/pkg/atveryend

5 Implementation

ii. .toc may be input in another document not loading tableof.2012/12/06 v1.0: initial version.

5 Implementation

1 \ProvidesPackage{tableof}
2 [2024/09/17 v1.4d Tables of tagged contents (JFB)]
3 \NeedsTeXFormat{LaTeX2e}[2020/10/01]
4 \RequirePackage{atveryend}
5 \DeclareOption*{\PackageWarning{tableof}{Option '\CurrentOption' is unknown.}}
6 \ProcessOptions\relax
7 \newtoks\tof@toctoks
1.3 codes this \tof@readtoc slightly better (copied from etoc.dtx).

8 \def\tof@readtoc {%

9 \ifeof\tof@tf

10 \else

11 \read\tof@tf to \tof@buffer

12 \tof@toctoks\expandafter\expandafter

13 {\expandafter\the\expandafter\tof@toctoks\tof@buffer}%

14 \expandafter\tof@readtoc

15 \fi }

1.3 of 2015/02/11 moves the reading of the toc file to At Begin Document. This is needed for Babel activated characters. I also re-use \endlinechar-1 which I had commented out since release 1.1. Notice though that this is irrelevant if the document uses tableof only via its tagging abilities, and has standard \tableofcontents command to print the TOC.

1.4c injects \tof@begingroup and \tof@endgroup to wrap the gathered the contents of the toc file, rather than having them arise from expansion of \tof@begin and respectively \tof@finish. This avoids a problem with biblatex additions to the .toc file happening before \tof@begin. They need to have their scope limited. The \tableof{} macro and variants will thus achieve this automatically via the \tof@begingroup/\tof@endgroup pair now explicitly added to \tof@toctoks contents.

etoc (a.t.t.o.w 1.09c 2020/05/15) has some handling of \tof@begingroup/\tof@endgroup which as far as I understand can currently remain as it is. But there is something weird in **etoc** with a test of \tof@finish which probably is in need of revision (even independently of changes here).

These changes however mean for usage of \nexttocwithtags that whatever macro is used to typeset the TOC, it is now the one bearing the responsability for creating the scope-limiting group.

```
16 \AtBeginDocument{%
    \IfFileExists{\jobname.toc}
17
      {{\endlinechar\m@ne
18
19
           \makeatletter
           \newread\tof@tf
20
          \openin\tof@tf\@filef@und
21
          \tof@toctoks{\tof@begingroup}%
22
23
          \tof@readtoc
24
           \global\tof@toctoks=\expandafter{\the\tof@toctoks\tof@endgroup}%
           \closein\tof@tf}}
25
      {}%
26
27 }
```

The trick is that \@ifundefined chooses the undefined branch if the meaning is \relax. Thus it is possible for tableof to define and use \tof@begin and later set it to \relax, the entire influence of tableof will then be turned off.

1.2 of 2013/03/04: \string{->{, idem with }. And added \if@filesw test.

1.3 of 2015/02/11: to circumvent aggressive biblatex manipulation of the .toc file, I put things to the .toc file in one-go; else weird commands might get inserted right in the middle of arguments to a multi-line macro! also removed a bunch of string's: when I first wrote this package I had still limited understanding of T_EX's macros.

1.4a uses \@empty for the default \tof@finish rather than \relax, for no special reason. Also the \let's in case \tof@begin is undefined or \relax are all made global, because for compatibility with the fancy things etoc 1.08 will allow for TOC as table we need a global mode, and the simplest is here to do the things global by default.

1.4c replaces {} (last argument of \@ifundefined) by \relax. No strong reason. We and **etoc** use \endlinechar-1 anyhow.

28 \AtBeginDocument{%

29	\addtocontents{toc}{\string\@ifundefined{tof@begin}%
30	{\global\let\string\tof@begin\relax
31	\global\let\string\tof@finish\string\@empty
32	\global\let\string\tof@starttags\string\@gobble
33	\global\let\string\tof@stoptags\string\@gobble
34	\global\let\string\tof@tagthis\string\@gobble
35	\global\let\string\tof@untagthis\string\@gobble}\relax}%
36	\addtocontents{toc}{\string\tof@begin}%
37 }	

Now obsolete hyperref-related remark (see next paragraph): $\[MT_EX of 2020 or 2021]$ always has \contentsline with four arguments. So an update should be done here to always gobble four, else in absence of hyperref some {} are left. Does not seem to matter a lot except if all is executed in math mode... thanks to etoc for example. No urgency here, only mentioning for the record.

hyperref stopped defining its \hyper@last at its 7.01c release in fall of 2023, but **tableof** tested for it, if hyperref was found to be present, in case a document previously not using hyperref started using it on second compilation, hence with a wrong .toc file format (in earlier years). As **tableof** was doing

```
\ifx\hyper@last\@undefined\tof@toctoks{}\fi
```

it now unconditionally emptied \tof@toctoks in presence of hyperref. This is the same problem which impacted **etoc** and got fixed at its 1.2c release but unfortunately **tableof** was not updated then. Belatedly fixed at 1.4d of 2024/09/17.

Formerly this was a short macro, but it doesn't look like a problem to simply alias it to the long \@gobblefour.

38 \let\tof@gobblethree@orfour\@gobblefour

1.4b (belatedly) fixes issue with \tof@finish getting lost due to a final \clearpage before \end{document}. Indeed, formerly code did:

\AtEndDocument{\addtocontents{toc}{\string\tof@finish}}

But we can't replace this by some \immediate\write\@auxout at end document, because it would act *before* the writes triggered by the \clearpage from inside \end{document}, if no such \clearpage ended the document body. Thus \AfterLastShipout comes to the rescue, from package atveryend.

```
39 \AfterLastShipout
```

```
40 {\immediate\write\@auxout{\string\@writefile{toc}{\string\tof@finish}}}
1.4a makes the things more easily patchable by other packages, especially I have etoc in mind.
```

\tof@@starttags and \tof@@stoptags are defined a bit later in the code. And we
use \tof@global. And we need \tof@@finish to reset \tof@tags to empty, just in
case \tof@global was \global. And also \contentsline !! But here it is a problem redefining it globally. In normal use of tableof, nothing needs to be done, because the \tof@endgroup closes the scope. In global mode (triggered only by etoc with
\etocglobaldefs for tabulars), it needed to globally modify \contentsline, thus it or
etoc has to globally unmodify it. etoc 1.08 by itself without tableof doesn't have to
reset \contentsline because it re-defined it *before* an eventual tabular. But as it forced
tableof to do global things, in such case etoc will have to proceed globally as well.

```
41 \let\tof@global \@empty
42 \let\tof@begingroup \begingroup
43 \let\tof@endgroup \endgroup
```

No more \tof@endgroup here at 1.4c. See above explanations.

```
44 \def\tof@@finish {\tof@global\let\contentsline\tof@savedcontentsline
45 \global\let\tof@begin\relax
46 \global\let\tof@tags\@empty }
47 \def\tof@dtagthis #1{\def\tof@tags@tmp{#1}}
48 \def\tof@duntagthis #1{\def\tof@untags@tmp{#1}}
```

No more \tof@begingroup here at 1.4c. See above explanations.

```
49 \def\tof@init#1{%
```

50	\def\tof@begin{%
51	<pre>\tof@global\let\tof@tagthis \tof@@tagthis</pre>
52	\tof@global\let\tof@untagthis\tof@@untagthis
53	\tof@global\let\tof@starttags\tof@@starttags
54	<pre>\tof@global\let\tof@stoptags \tof@@stoptags</pre>
55	\tof@global\let\tof@finish \tof@@finish
56	\tof@global\let\tof@savedcontentsline\contentsline
57	<pre>\tof@global\def\contentsline {#1}}}</pre>

place holder for comments

```
58 \newcommand\tofOpenTocFileForWrite{%
```

```
59 \if@filesw
60 \newwrite \tf@toc
61 \immediate \openout \tf@toc \jobname.toc\relax
62 \fi}
```

Creating our booleans is not the most economical, (one could have used a single list macro) but heck, how many tags are there going to be anyhow in normal use? a dozen at the very most I think.

1.4a: fortunately no need for the \tof@global thing! However, careful with \tof@tags it will have to be reset to empty by \tof@finish in case \tof@global is \global.

```
63 \let\tof@tags \@empty
64 \let\tof@tags@tmp \@empty
65 \let\tof@untags@tmp\@empty
66 \def\tof@true #1{\expandafter\let\csname tofsw@#1\endcsname\iftrue}
```

5 Implementation

```
67 \def\tof@false#1{\expandafter\let\csname tofsw@#1\endcsname\iffalse}
68 \def\tof@secondiftrue#1%
69
      {\csname tofsw@#1\endcsname \let\tof@next\@secondoftwo\fi}
70 \def\tof@secondiffalse#1%
      {\csname tofsw@#1\endcsname\else\let\tof@next\@secondoftwo\fi}
71
1.4a: fortunately no need for the \tof@global thing; the \tof@setflags is used at each
\contentsline. Quite useful design, congrats to the original architect !
72 \def\tof@setflags #1{\let\tof@next\@firstoftwo
73
           \@for\@tempa:=#1\do
                                            {\tof@true {\@tempa}}%
74
           \@for\@tempa:=\tof@tags\do
                                            {\tof@false{\@tempa}}%
           \@for\@tempa:=\tof@tags@tmp\do {\tof@false{\@tempa}}%
75
           \@for\@tempa:=\tof@untags@tmp\do{\tof@true {\@tempa}}}
76
Release 1.4 uses here a bunch of \expandafter's in place of some \edef's.
77 \def\tof@filter#1#2{\ifx#1#2\else
       \ifx\tof@tmptags\@empty
78
79
            \expandafter\def\expandafter\tof@tmptags\expandafter{#2}%
80
       \else
81
            \expandafter\expandafter\expandafter\def
            \expandafter\expandafter\expandafter\tof@tmptags
82
83
            \expandafter\expandafter\expandafter
            \tof@tmptags\expandafter,#2}%
84
85
       \fi\fi}
1.4a needs the \tof@global in the hope for tableof to be compatible with future etoc
1.08 when employed in the delicate art of TOC as a table !
86 \def\tof@@starttags#1{%
       \ifx\tof@tags\@empty
87
         \tof@global\def\tof@tags{#1}%
88
       \else
89
90
         \tof@global
91
         \expandafter\def\expandafter\tof@tags\expandafter{\tof@tags,#1}%
       \fi }
92
93 \def\tof@@stoptags#1{%
94
       \@for\@tempa:=#1\do{%
             \def\tof@tmptags{}%
95
             \@for\@tempb:=\tof@tags\do{\tof@filter\@tempa\@tempb}%
96
97
             \tof@global
             \expandafter\def\expandafter\tof@tags\expandafter{\tof@tmptags}%
98
99
            }%
       }
100
```

Until 1.3, I was just using the \@for thing with no attempt at any extra parsing, for spaces in particular. With 1.3 of 2015/02/11 I use an \edef to remove all spaces first, using a \zapspaces macro pioneered in xintkernel.sty. Thus, comma separated lists of tags can have spaces. They will be removed if not protected by braces.

```
101 \def\tof@zapspaces #1 #2{#1#2\tof@zapspaces }%
102 \def\tof@cleanspaces #1#2{\edef\tof@tmp {{\tof@zapspaces #2 \@gobble}}%
103 \expandafter #1\tof@tmp }
```

placeholder for comments

104 \de	\tof@and #1{%
105	<pre>\tof@init{\tof@setflags{#1}\def\tof@tags@tmp{}\def\tof@untags@tmp{}%</pre>
106	\@for\@tempa:=#1\do{\tof@secondiftrue{\@tempa}}%

```
\tof@next\tof@savedcontentsline\tof@gobblethree@orfour}%
107
108
       \the\tof@toctoks }
109 \def\tof@or
                 #1{%
       \tof@init{\tof@setflags{#1}\def\tof@tags@tmp{}\def\tof@untags@tmp{}%
110
           \@for\@tempa:=#1\do{\tof@secondiffalse{\@tempa}}%
111
           \tof@next\tof@gobblethree@orfour\tof@savedcontentsline}%
112
       \the\tof@toctoks }
113
114 \def \tof@nor #1{%
       \tof@init{\tof@setflags{#1}\def\tof@tags@tmp{}\def\tof@untags@tmp{}%
115
           \@for\@tempa:=#1\do{\tof@secondiffalse{\@tempa}}%
116
           \tof@next\tof@savedcontentsline\tof@gobblethree@orfour}%
117
      \the\tof@toctoks }
118
119 def tof@nand #1{%
120
       \tof@init{\tof@setflags{#1}\def\tof@tags@tmp{}\def\tof@untags@tmp{}%
           \@for\@tempa:=#1\do{\tof@secondiftrue{\@tempa}}%
121
           \tof@next\tof@gobblethree@orfour\tof@savedcontentsline}%
122
123
       \the\tof@toctoks }
124 \newcommand*\tableof{\@ifstar{\tof@cleanspaces\tof@or}
125
                                 {\tof@cleanspaces\tof@and}}
126 \newcommand*\tablenotof{\@ifstar{\tof@cleanspaces\tof@nand}
127
                                    {\tof@cleanspaces\tof@nor}}
placeholder for comments
128 \def\tof@nextof@or #1{\toks@{\tof@setflags{#1}%
           \@for\@tempa:=#1\do{\tof@secondiffalse{\@tempa}}%
129
130
           \tof@next
131
           {\def\tof@tags@tmp{}\def\tof@untags@tmp{}\tof@gobblethree@orfour}}%
132
           \@ifstar{\tof@cleanspaces\tof@nextof@nand}
133
                   {\tof@cleanspaces\tof@nextof@nor}}
134 \def\tof@nextof@and #1{\toks@{\tof@setflags{#1}%
                \@for\@tempa:=#1\do{\tof@secondiftrue{\@tempa}}%
135
136
                \tof@next\@secondoftwo\@firstoftwo
                \label{leflow} $ def\tof@untags@tmp{}\tof@gobblethree@orfour} \
137
138
           \@ifstar{\tof@cleanspaces\tof@nextof@nand}
                   {\tof@cleanspaces\tof@nextof@nor}}
139
140 \def\tof@nextof@nor #1{%
          \toks@\expandafter{\the\toks@
141
                {\tof@setflags{#1}\def\tof@tags@tmp{}\def\tof@untags@tmp{}%
142
143
                 \@for\@tempa:=#1\do{\tof@secondiffalse{\@tempa}}%
144
                 \tof@next\tof@savedcontentsline\tof@gobblethree@orfour}}%
          \expandafter\tof@init\expandafter{\the\toks@}%
145
          \tof@printtoc }
146
147 \def\tof@nextof@nand #1{%
          \toks@\expandafter{\the\toks@
148
                {\tof@setflags{#1}\def\tof@tags@tmp{}\def\tof@untags@tmp{}%
149
150
                 \@for\@tempa:=#1\do{\tof@secondiftrue{\@tempa}}%
                 \tof@next\tof@gobblethree@orfour\tof@savedcontentsline}}%
151
          \expandafter\tof@init\expandafter{\the\toks@}%
152
153
          \tof@printtoc }
154 \newcommand*{\nexttocwithtags}{\let\tof@printtoc\relax
155
                \@ifstar{\tof@cleanspaces\tof@nextof@or}
                        {\tof@cleanspaces\tof@nextof@and}}
156
157 \newcommand*{\tableoftaggedcontents}{\def\tof@printtoc{\the\tof@toctoks}%
158
                \@ifstar{\tof@cleanspaces\tof@nextof@or}
```

5 Implementation

159

{\tof@cleanspaces\tof@nextof@and}}

placeholder for comments

160 \newcommand*\toftagthis[1]

161 {\addtocontents{toc}{\string\tof@tagthis {\tof@zapspaces #1 \@gobble }}
162 \newcommand*\tofuntagthis[1]

163 {\addtocontents{toc}{\string\tof@untagthis{\tof@zapspaces #1 \@gobble }}
164 \newcommand*\toftagstart[1]

165 {\addtocontents{toc}{\string\tof@starttags{\tof@zapspaces #1 \@gobble }}
166 \newcommand*\toftagstop[1]

167 {\addtocontents{toc}{\string\tof@stoptags {\tof@zapspaces #1 \@gobble }}
168 \endinput