The gettitlestring package

Heiko Oberdiek
<heiko.oberdiek at googlemail.com>

2010/12/03 v1.4

Abstract

The LaTeX package addresses packages that are dealing with references to titles (`\section`, `\caption`, ...). The package tries to remove `\label` and other commands from title strings.

Contents

1 Documentation **2**
1.1 Macros . . . 2
1.2 Options . . . 2

2 Implementation **2**
2.1 Options . . . 4
2.2 `\GetTitleString` . . . 4
2.2.1 Expand method . . . 5
2.2.2 Non-expand method . . . 6

3 Test **7**
3.1 Catcode checks for loading . . . 7
3.2 Test of non-expand method . . . 9

4 Installation **10**
4.1 Download . . . 10
4.2 Bundle installation . . . 10
4.3 Package installation . . . 10
4.4 Refresh file name databases . . . 10
4.5 Some details for the interested . . . 11

5 Catalogue **11**

6 References **12**

7 History **12**
[2009/12/08 v1.0] . . . 12
[2009/12/12 v1.1] . . . 12
[2009/12/13 v1.2] . . . 12
[2009/12/18 v1.3] . . . 12
[2010/12/03 v1.4] . . . 12

8 Index **12**

1 Documentation

1.1 Macros

`\GetTitleStringSetup {`⟨*key value list*⟩`}`

The options are given as comma separated key value pairs. See section 1.2.

`\GetTitleString {`⟨*text*⟩`}`
`\GetTitleStringExpand {`⟨*text*⟩`}`
`\GetTitleStringNonExpand {`⟨*text*⟩`}`

Macro `\GetTitleString` tries to remove unwanted stuff from ⟨*text*⟩ the result is stored in Macro `\GetTitleStringResult`. Two methods are available:

`\GetTitleStringExpand`: The ⟨*text*⟩ is expanded in a context where the unwanted macros are redefined to remove themselves. This is the method used in packages titleref [2], zref-titleref [3] or class memoir [1]. `\protect` is supported, but fragile material might break.

`\GetTitleStringNonExpand`: The ⟨*text*⟩ is not expanded. Thus the removal of unwanted material is more difficult. It is especially removed at the start of the ⟨*text*⟩ and spaces are removed from the end. Currently only `\label` is removed in the whole string, if it is not hidden inside curly braces or part of macro definitions. Thus the removal of unwanted stuff might not be complete, but fragile material will not break. (But the result string can break at a later time, of course).

Option expand controls which method is used by macro `\GetTitleString`.

`\GetTitleStringDisableCommands {`⟨*code*⟩`}`

The ⟨*code*⟩ is called right before the text is expanded in `\GetTitleStringExpand`. Additional definitions can be given for macros that should be removed. Keep in mind that expansion means that the definitions must work in expandable context. Macros like `\@ifstar` or `\@ifnextchar` or optional arguments will not work. The macro names in ⟨*code*⟩ may contain the at sign `@`, it has catcode 11 (letter).

1.2 Options

expand: Boolean option, takes values `true` or `false`. No value means `true`. The option specifies the method to remove unwanted stuff from the title string, see below.

Options can be set at the following places:

- `\usepackage`
- Configuration file `gettitlestring.cfg`.
- `\GetTitleStringSetup`

2 Implementation

```
1 ⟨*package⟩
```

Reload check, especially if the package is not used with LaTeX.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3   \catcode13=5 % ^^M
```

```
  \endlinechar=13 %
  \catcode35=6 % #
  \catcode39=12 % '
  \catcode44=12 % ,
  \catcode45=12 % -
  \catcode46=12 % .
  \catcode58=12 % :
  \catcode64=11 % @
  \catcode123=1 % {
  \catcode125=2 % }
  \expandafter\let\expandafter\x\csname ver@gettitlestring.sty\endcsname
  \ifx\x\relax % plain-TeX, first loading
  \else
    \def\empty{}%
    \ifx\x\empty % LaTeX, first loading,
      % variable is initialized, but \ProvidesPackage not yet seen
    \else
      \expandafter\ifx\csname PackageInfo\endcsname\relax
        \def\x#1#2{%
          \immediate\write-1{Package #1 Info: #2.}%
        }%
      \else
        \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
      \fi
      \x{gettitlestring}{The package is already loaded}%
      \aftergroup\endinput
    \fi
  \fi
\endgroup%
```

Package identification:

```
\begingroup\catcode61\catcode48\catcode32=10\relax%
  \catcode13=5 % ^^M
  \endlinechar=13 %
  \catcode35=6 % #
  \catcode39=12 % '
  \catcode40=12 % (
  \catcode41=12 % )
  \catcode44=12 % ,
  \catcode45=12 % -
  \catcode46=12 % .
  \catcode47=12 % /
  \catcode58=12 % :
  \catcode64=11 % @
  \catcode91=12 % [
  \catcode93=12 % ]
  \catcode123=1 % {
  \catcode125=2 % }
  \expandafter\ifx\csname ProvidesPackage\endcsname\relax
    \def\x#1#2#3[#4]{\endgroup
      \immediate\write-1{Package: #3 #4}%
      \xdef#1{#4}%
    }%
  \else
    \def\x#1#2[#3]{\endgroup
      #2[{#3}]%
      \ifx#1\@undefined
        \xdef#1{#3}%
      \fi
      \ifx#1\relax
        \xdef#1{#3}%
      \fi
    }%
```

```
  \fi
\expandafter\x\csname ver@gettitlestring.sty\endcsname
\ProvidesPackage{gettitlestring}%
  [2010/12/03 v1.4 Cleanup title references (HO)]%
\begingroup\catcode61\catcode48\catcode32=10\relax%
  \catcode13=5 % ^^M
  \endlinechar=13 %
  \catcode123=1 % {
  \catcode125=2 % }
  \catcode64=11 % @
  \def\x{\endgroup
    \expandafter\edef\csname GTS@AtEnd\endcsname{%
      \endlinechar=\the\endlinechar\relax
      \catcode13=\the\catcode13\relax
      \catcode32=\the\catcode32\relax
      \catcode35=\the\catcode35\relax
      \catcode61=\the\catcode61\relax
      \catcode64=\the\catcode64\relax
      \catcode123=\the\catcode123\relax
      \catcode125=\the\catcode125\relax
    }%
  }%
\x\catcode61\catcode48\catcode32=10\relax%
\catcode13=5 % ^^M
\endlinechar=13 %
\catcode35=6 % #
\catcode64=11 % @
\catcode123=1 % {
\catcode125=2 % }
\def\TMP@EnsureCode#1#2{%
  \edef\GTS@AtEnd{%
    \GTS@AtEnd
    \catcode#1=\the\catcode#1\relax
  }%
  \catcode#1=#2\relax
}
\TMP@EnsureCode{42}{12}% *
\TMP@EnsureCode{44}{12}% ,
\TMP@EnsureCode{45}{12}% -
\TMP@EnsureCode{46}{12}% .
\TMP@EnsureCode{47}{12}% /
\TMP@EnsureCode{91}{12}% [
\TMP@EnsureCode{93}{12}% ]
\edef\GTS@AtEnd{\GTS@AtEnd\noexpand\endinput}
```

2.1 Options

```
\RequirePackage{kvoptions}[2009/07/17]
\SetupKeyvalOptions{%
  family=gettitlestring,%
  prefix=GTS@%
}
\newcommand*{\GetTitleStringSetup}{%
  \setkeys{gettitlestring}%
}
\DeclareBoolOption{expand}
\InputIfFileExists{gettitlestring.cfg}{}{}
\ProcessKeyvalOptions*\relax
```

2.2 \GetTitleString

\GetTitleString

```
\newcommand*{\GetTitleString}{%
  \ifGTS@expand
```

```
    \expandafter\GetTitleStringExpand
  \else
    \expandafter\GetTitleStringNonExpand
  \fi
}
```

\GetTitleStringExpand

```
\newcommand{\GetTitleStringExpand}[1]{%
  \def\GetTitleStringResult{#1}%
  \begingroup
    \GTS@DisablePredefinedCmds
    \GTS@DisableHook
    \edef\x{\endgroup
      \noexpand\def\noexpand\GetTitleStringResult{%
        \GetTitleStringResult
      }%
    }%
  \x
}
```

\GetTitleString

```
\newcommand{\GetTitleStringNonExpand}[1]{%
  \def\GetTitleStringResult{#1}%
  \global\let\GTS@GlobalString\GetTitleStringResult
  \begingroup
    \GTS@RemoveLeft
    \GTS@RemoveRight
  \endgroup
  \let\GetTitleStringResult\GTS@GlobalString
}
```

2.2.1 Expand method

\GTS@DisablePredefinedCmds

```
\def\GTS@DisablePredefinedCmds{%
  \let\label\@gobble
  \let\zlabel\@gobble
  \let\zref@label\@gobble
  \let\zref@labelbylist\@gobbletwo
  \let\zref@labelbyprops\@gobbletwo
  \let\index\@gobble
  \let\glossary\@gobble
  \let\markboth\@gobbletwo
  \let\@mkboth\@gobbletwo
  \let\markright\@gobble
  \let\phantomsection\@empty
  \def\addcontentsline{\expandafter\@gobble\@gobbletwo}%
  \let\raggedright\@empty
  \let\raggedleft\@empty
  \let\centering\@empty
  \let\protect\@unexpandable@protect
  \let\enit@format\@empty % package enumitem
}
```

\GTS@DisableHook

```
\providecommand*{\GTS@DisableHook}{}
```

GetTitleStringDisableCommands

```
\def\GetTitleStringDisableCommands{%
  \begingroup
    \makeatletter
    \GTS@DisableCommands
}
```

\GTS@DisableCommands

```
\long\def\GTS@DisableCommands#1{%
    \toks0=\expandafter{\GTS@DisableHook}%
    \toks2={#1}%
    \xdef\GTS@GlobalString{\the\toks0 \the\toks2}%
  \endgroup
  \let\GTS@DisableHook\GTS@GlobalString
}
```

2.2.2 Non-expand method

```
\def\GTS@RemoveLeft{%
  \toks@\expandafter\expandafter\expandafter{%
    \expandafter\GTS@Car\GTS@GlobalString{}{}{}{}\GTS@Nil
  }%
  \edef\GTS@Token{\the\toks@}%
  \GTS@PredefinedLeftCmds
  \expandafter\futurelet\expandafter\GTS@Token
  \expandafter\GTS@TestLeftSpace\GTS@GlobalString\GTS@Nil
  \GTS@End
}
\def\GTS@End{}
\long\def\GTS@TestLeft#1#2{%
  \def\GTS@temp{#1}%
  \ifx\GTS@temp\GTS@Token
    \toks@\expandafter\expandafter\expandafter{%
      \expandafter#2\GTS@GlobalString\GTS@Nil
    }%
    \expandafter\GTS@TestLeftEnd
  \fi
}
\long\def\GTS@TestLeftEnd#1\GTS@End{%
  \xdef\GTS@GlobalString{\the\toks@}%
  \GTS@RemoveLeft
}
\long\def\GTS@Car#1#2\GTS@Nil{#1}
\long\def\GTS@Cdr#1#2\GTS@Nil{#2}
\long\def\GTS@CdrTwo#1#2#3\GTS@Nil{#3}
\long\def\GTS@CdrThree#1#2#3#4\GTS@Nil{#4}
\long\def\GTS@CdrFour#1#2#3#4#5\GTS@Nil{#5}
\long\def\GTS@TestLeftSpace#1\GTS@Nil{%
  \ifx\GTS@Token\@sptoken
    \toks@\expandafter{%
      \romannumeral-0\GTS@GlobalString
    }%
    \expandafter\GTS@TestLeftEnd
  \fi
}
```

\GTS@PredefinedLeftCmds

```
\def\GTS@PredefinedLeftCmds{%
  \GTS@TestLeft\Hy@phantomsection\GTS@Cdr
  \GTS@TestLeft\Hy@SectionAnchor\GTS@Cdr
  \GTS@TestLeft\Hy@SectionAnchorHref\GTS@CdrTwo
  \GTS@TestLeft\label\GTS@CdrTwo
  \GTS@TestLeft\zlabel\GTS@CdrTwo
  \GTS@TestLeft\index\GTS@CdrTwo
  \GTS@TestLeft\glossary\GTS@CdrTwo
  \GTS@TestLeft\markboth\GTS@CdrThree
  \GTS@TestLeft\@mkboth\GTS@CdrThree
  \GTS@TestLeft\addcontentsline\GTS@CdrFour
  \GTS@TestLeft\enit@format\GTS@Cdr % package enumitem
}
```

```
\def\GTS@RemoveRight{%
  \toks@{}%
  \expandafter\GTS@TestRightLabel\GTS@GlobalString
      \label{}\GTS@Nil\@nil
  \GTS@RemoveRightSpace
}
\begingroup
  \def\GTS@temp#1{\endgroup
    \def\GTS@RemoveRightSpace{%
      \expandafter\GTS@TestRightSpace\GTS@GlobalString
          \GTS@Nil#1\GTS@Nil\@nil
    }%
  }%
\GTS@temp{ }
\def\GTS@TestRightSpace#1 \GTS@Nil#2\@nil{%
  \ifx\relax#2\relax
  \else
    \gdef\GTS@GlobalString{#1}%
    \expandafter\GTS@RemoveRightSpace
  \fi
}
\def\GTS@TestRightLabel#1\label#2#3\GTS@Nil#4\@nil{%
  \def\GTS@temp{#3}%
  \ifx\GTS@temp\@empty
    \expandafter\gdef\expandafter\GTS@GlobalString\expandafter{%
      \the\toks@
      #1%
    }%
    \expandafter\@gobble
  \else
    \expandafter\@firstofone
  \fi
  {%
    \toks@\expandafter{\the\toks@#1}%
    \GTS@TestRightLabel#3\GTS@Nil\@nil
  }%
}
\GTS@AtEnd%
⟨/package⟩
```

3 Test

3.1 Catcode checks for loading

```
⟨*test1⟩
\catcode`\{=1 %
\catcode`\}=2 %
\catcode`\#=6 %
\catcode`\@=11 %
\expandafter\ifx\csname count@\endcsname\relax
  \countdef\count@=255 %
\fi
\expandafter\ifx\csname @gobble\endcsname\relax
  \long\def\@gobble#1{}%
\fi
\expandafter\ifx\csname @firstofone\endcsname\relax
  \long\def\@firstofone#1{#1}%
\fi
\expandafter\ifx\csname loop\endcsname\relax
  \expandafter\@firstofone
\else
```

```
  \expandafter\@gobble
\fi
{%
  \def\loop#1\repeat{%
    \def\body{#1}%
    \iterate
  }%
  \def\iterate{%
    \body
      \let\next\iterate
    \else
      \let\next\relax
    \fi
    \next
  }%
  \let\repeat=\fi
}%
\def\RestoreCatcodes{}
\count@=0 %
\loop
  \edef\RestoreCatcodes{%
    \RestoreCatcodes
    \catcode\the\count@=\the\catcode\count@\relax
  }%
\ifnum\count@<255 %
  \advance\count@ 1 %
\repeat

\def\RangeCatcodeInvalid#1#2{%
  \count@=#1\relax
  \loop
    \catcode\count@=15 %
  \ifnum\count@<#2\relax
    \advance\count@ 1 %
  \repeat
}
\def\RangeCatcodeCheck#1#2#3{%
  \count@=#1\relax
  \loop
    \ifnum#3=\catcode\count@
    \else
      \errmessage{%
        Character \the\count@\space
        with wrong catcode \the\catcode\count@\space
        instead of \number#3%
      }%
    \fi
  \ifnum\count@<#2\relax
    \advance\count@ 1 %
  \repeat
}
\def\space{ }
\expandafter\ifx\csname LoadCommand\endcsname\relax
  \def\LoadCommand{\input gettitlestring.sty\relax}%
\fi
\def\Test{%
  \RangeCatcodeInvalid{0}{47}%
  \RangeCatcodeInvalid{58}{64}%
  \RangeCatcodeInvalid{91}{96}%
  \RangeCatcodeInvalid{123}{255}%
  \catcode`\@=12 %
  \catcode`\\=0 %
```

```
  \catcode`\%=14 %
  \LoadCommand
  \RangeCatcodeCheck{0}{36}{15}%
  \RangeCatcodeCheck{37}{37}{14}%
  \RangeCatcodeCheck{38}{47}{15}%
  \RangeCatcodeCheck{48}{57}{12}%
  \RangeCatcodeCheck{58}{63}{15}%
  \RangeCatcodeCheck{64}{64}{12}%
  \RangeCatcodeCheck{65}{90}{11}%
  \RangeCatcodeCheck{91}{91}{15}%
  \RangeCatcodeCheck{92}{92}{0}%
  \RangeCatcodeCheck{93}{96}{15}%
  \RangeCatcodeCheck{97}{122}{11}%
  \RangeCatcodeCheck{123}{255}{15}%
  \RestoreCatcodes
}
\Test
\csname @@end\endcsname
\end
```

⟨/test1⟩

3.2 Test of non-expand method

```
⟨*test2⟩
\NeedsTeXFormat{LaTeX2e}
\documentclass{minimal}
\usepackage{gettitlestring}[2010/12/03]
\usepackage{qstest}
\IncludeTests{*}
\LogTests{log}{*}{*}
\begin{document}
\begin{qstest}{non-expand}{non-expand}
  \def\test#1#2{%
    \sbox0{%
      \GetTitleString{#1}%
      \Expect{#2}*{\GetTitleStringResult}%
    }%
    \Expect{0.0pt}*{\the\wd0}%
  }%
  \test{}{}%
  \test{ }{}%
  \test{ x }{x}%
  \test{ x y }{x y}%
  \test{ \relax}{\relax}%
  \test{\label{f}a}{a}%
  \test{ \label{f}a}{a}%
  \test{\label{f} a}{a}%
  \test{ \label{f} a}{a}%
  \test{a\label{f}}{a}%
  \test{a\label{f} }{a}%
  \test{a \label{f}}{a}%
  \test{a \label{f} }{a}%
  \test{a\label{f}b\label{g}}{ab}%
  \test{a \label{f}b \label{g} }{a b}%
  \test{a\label{f} b \label{g} }{a b}%
\end{qstest}
\end{document}
⟨/test2⟩
```

4 Installation

4.1 Download

Package. This package is available on CTAN[1]:

CTAN:macros/latex/contrib/oberdiek/gettitlestring.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/gettitlestring.pdf Documentation.

Bundle. All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TEX Files" (CTAN:tds/tds.pdf). Directories with `texmf` in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package attachfile2 comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain TEX:

```
tex gettitlestring.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
gettitlestring.sty           → tex/generic/oberdiek/gettitlestring.sty
gettitlestring.pdf           → doc/latex/oberdiek/gettitlestring.pdf
test/gettitlestring-test1.tex → doc/latex/oberdiek/test/gettitlestring-test1.tex
test/gettitlestring-test2.tex → doc/latex/oberdiek/test/gettitlestring-test2.tex
gettitlestring.dtx           → source/latex/oberdiek/gettitlestring.dtx
```

If you have a `docstrip.cfg` that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

4.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

[1] ftp://ftp.ctan.org/tex-archive/

4.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk gettitlestring.pdf unpack_files output .
```

Unpacking with LaTeX. The `.dtx` chooses its action depending on the format:

plain TeX: Run docstrip and extract the files.

LaTeX: Generate the documentation.

If you insist on using LaTeX for docstrip (really, docstrip does not need LaTeX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{gettitlestring.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfLaTeX:

```
pdflatex gettitlestring.dtx
makeindex -s gind.ist gettitlestring.idx
pdflatex gettitlestring.dtx
makeindex -s gind.ist gettitlestring.idx
pdflatex gettitlestring.dtx
```

5 Catalogue

The following XML file can be used as source for the TeX Catalogue. The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `gettitlestring.xml`.

```
⟨*catalogue⟩
<?xml version='1.0' encoding='us-ascii'?>
<!DOCTYPE entry SYSTEM 'catalogue.dtd'>
<entry datestamp='$Date$' modifier='$Author$' id='gettitlestring'>
  <name>gettitlestring</name>
  <caption>Clean up title references.</caption>
  <authorref id='auth:oberdiek'/>
  <copyright owner='Heiko Oberdiek' year='2009,2010'/>
  <license type='lppl1.3'/>
  <version number='1.4'/>
  <description>
    Cleans up the title string (removing <tt>\label</tt> commands) for
    packages (such as <xref refid='nameref'>nameref</xref>) that
    typeset such strings.
    <p/>
    The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
  </description>
  <documentation details='Package documentation'
      href='ctan:/macros/latex/contrib/oberdiek/gettitlestring.pdf'/>
  <ctan file='true' path='/macros/latex/contrib/oberdiek/gettitlestring.dtx'/>
  <miktex location='oberdiek'/>
```

```
424   <texlive location='oberdiek'/>
425   <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
426 </entry>
427 ⟨/catalogue⟩
```

6 References

[1] Peter Wilson, Lars Madsen: *The Memoir Class*; 2009/11/17 v1.61803398c; CTAN:macros/latex/contrib/memoir/

[2] Donald Arsenau: *Titleref.sty*; 2001/04/05 ver 3.1; CTAN:macros/latex/contrib/misc/titleref.sty

[3] Heiko Oberdiek: *The zref package*; 2009/12/08 v2.7; CTAN:macros/latex/contrib/oberdiek/zref.pdf

7 History

[2009/12/08 v1.0]

- The first version.

[2009/12/12 v1.1]

- Short info shortened.

[2009/12/13 v1.2]

- Forgotten third argument for `\InputIfFileExists` added.

[2009/12/18 v1.3]

- `\Hy@SectionAnchorHref` added for filtering (hyperref 2009/12/18 v6.79w).

[2010/12/03 v1.4]

- Support of package enumitem: removing `\enit@format` from title string (problem report by GL).

8 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

Symbols

\# 272
\% 348
\@ 273, 346
\@empty . . . 159, 161, 162, 163, 165, 253
\@firstofone 260, 281, 284
\@gobble 149, 150, 151, 154, 155, 158, 160, 258, 278, 286
\@gobbletwo . . . 152, 153, 156, 157, 160
\@mkboth 157, 226
\@nil 233, 240, 244, 251, 264
\@sptoken 210
\@undefined 58
\@unexpandable@protect 164
\\ 347
\{ 270
\} 271

A

\addcontentsline 160, 227
\advance 311, 319, 334
\aftergroup 29

B

\begin 375, 376
\body 290, 294

C

\catcode 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 69, 70, 72, 73, 74, 78, 79, 80, 81, 82, 83, 84, 87, 88, 90, 91, 92, 93, 97, 99, 270, 271, 272, 273, 308, 317, 325, 329, 346, 347, 348
\centering 163
\count@ 275, 304, 308, 310, 311, 315, 317, 318, 319, 323, 325, 328, 329, 333, 334
\countdef 275
\csname 14, 21, 50, 66, 76, 274, 277, 280, 283, 338, 365

D

\DeclareBoolOption 117
\documentclass 370

E

\empty 17, 18
\end 366, 400, 401
\endcsname 14, 21, 50, 66, 76, 274, 277, 280, 283, 338, 365
\endinput 29, 108
\endlinechar 4, 35, 71, 77, 89
\enit@format 165, 228
\errmessage 327
\Expect 380, 382

F

\futurelet 186

G

\gdef 247, 254
\GetTitleString *2*, 120, 139, 379
\GetTitleStringDisableCommands *2*, 168
\GetTitleStringExpand 122, 127
\GetTitleStringNonExpand . . . 124, 139
\GetTitleStringResult 128, 133, 134, 140, 141, 146, 380
\GetTitleStringSetup *2*, 114
\glossary 155, 224
\GTS@AtEnd 95, 96, 108, 267
\GTS@Car 182, 204
\GTS@Cdr 205, 218, 219, 228
\GTS@CdrFour 208, 227
\GTS@CdrThree 207, 225, 226
\GTS@CdrTwo 206, 220, 221, 222, 223, 224
\GTS@DisableCommands 171, 173
\GTS@DisableHook . . 131, 167, 174, 178
\GTS@DisablePredefinedCmds . 130, 148
\GTS@End 188, 190, 200
\GTS@GlobalString 141, 146, 176, 178, 182, 187, 195, 201, 212, 232, 239, 247, 254
\GTS@Nil 182, 187, 195, 204, 205, 206, 207, 208, 209, 233, 240, 244, 251, 264
\GTS@PredefinedLeftCmds 185, 217
\GTS@RemoveLeft 143, 180, 202
\GTS@RemoveRight 144, 230
\GTS@RemoveRightSpace . . 234, 238, 248
\GTS@temp . 192, 193, 237, 243, 252, 253
\GTS@TestLeft 191, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228
\GTS@TestLeftEnd 197, 200, 214
\GTS@TestLeftSpace 187, 209
\GTS@TestRightLabel . . . 232, 251, 264
\GTS@TestRightSpace 239, 244
\GTS@Token 184, 186, 193, 210

H

\Hy@phantomsection 218
\Hy@SectionAnchor 219
\Hy@SectionAnchorHref 220

I

\ifGTS@expand 121
\ifnum 310, 318, 325, 333
\ifx 15, 18, 21, 50, 58, 61, 193, 210, 245, 253, 274, 277, 280, 283, 338
\immediate 23, 52
\IncludeTests 373
\index 154, 223
\input 339
\InputIfFileExists 118
\iterate 291, 293, 295

L

\label 149, 221, 233, 251, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 414
\LoadCommand 339, 349
\LogTests 374
\loop 289, 305, 316, 324

M

\makeatletter 170
\markboth 156, 225
\markright 158

N

\NeedsTeXFormat 369
\newcommand 114, 120, 127, 139
\next 295, 297, 299
\number 330

P

\PackageInfo 26
\phantomsection 159
\ProcessKeyvalOptions 119
\protect 164
\providecommand 167
\ProvidesPackage 19, 67

R

\raggedleft 162
\raggedright 161
\RangeCatcodeCheck 322, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361
\RangeCatcodeInvalid 314, 342, 343, 344, 345
\repeat 289, 301, 312, 320, 335

\RequirePackage 109
\RestoreCatcodes . . 303, 306, 307, 362
\romannumeral 212

S

\sbox 378
\setkeys 115
\SetupKeyvalOptions 110
\space 328, 329, 337

T

\Test 341, 364
\test 377, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399
\the 77, 78, 79, 80, 81, 82, 83, 84, 97, 176, 184, 201, 255, 263, 308, 328, 329, 382
\TMP@EnsureCode 94, 101, 102, 103, 104, 105, 106, 107
\toks 174, 175, 176
\toks@ 181, 184, 194, 201, 211, 231, 255, 263

U

\usepackage 371, 372

W

\wd 382
\write 23, 52

X

\x 14, 15, 18, 22, 26, 28, 51, 56, 66, 75, 87, 132, 137

Z

\zlabel 150, 222
\zref@label 151
\zref@labelbylist 152
\zref@labelbyprops 153