

The holtxdoc package

Heiko Oberdiek*

2019/12/09 v0.30

Abstract

The package is used for the documentation of my packages in DTX format. It contains some private macros and setup for my needs. Thus do not use it. I have separated the part that may be useful for others in package hypdoc.

Contents

| | | |
|----------|--|----------|
| 1 | No usage | 2 |
| 2 | Implementation | 2 |
| 2.1 | Help macros | 2 |
| 2.2 | Font setup for Lua ^A T _E X | 2 |
| 2.3 | Date | 3 |
| 2.4 | History | 3 |
| 2.5 | Formatting macros | 4 |
| 2.6 | Names | 6 |
| 2.7 | Setup | 6 |
| 2.7.1 | Package doc | 6 |
| 2.7.2 | Page layout | 7 |
| 3 | Installation | 7 |
| 3.1 | Download | 7 |
| 3.2 | Bundle installation | 7 |
| 3.3 | Package installation | 7 |
| 3.4 | Refresh file name databases | 8 |
| 3.5 | Some details for the interested | 8 |
| 4 | History | 8 |
| | [1999/06/26 v0.3] | 8 |
| | [2000/08/14 v0.4] | 8 |
| | [2001/08/27 v0.5] | 8 |
| | [2001/09/02 v0.6] | 9 |
| | [2006/06/02 v0.7] | 9 |
| | [2007/10/21 v0.8] | 9 |
| | [2007/11/11 v0.9] | 9 |
| | [2007/12/12 v0.10] | 9 |
| | [2008/08/11 v0.11] | 9 |
| | [2009/08/07 v0.12] | 9 |
| | [2009/12/02 v0.13] | 9 |

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

| | |
|--------------------|-----------|
| [2010/02/03 v0.14] | 9 |
| [2010/03/10 v0.15] | 9 |
| [2010/04/03 v0.16] | 9 |
| [2010/04/08 v0.17] | 9 |
| [2010/04/18 v0.18] | 9 |
| [2010/04/24 v0.19] | 10 |
| [2010/12/03 v0.20] | 10 |
| [2011/02/04 v0.21] | 10 |
| [2011/11/22 v0.22] | 10 |
| [2012/03/07 v0.23] | 10 |
| [2012/03/21 v0.24] | 10 |
| [2016/05/16 v0.25] | 10 |
| [2016/05/16 v0.26] | 10 |
| [2016/05/17 v0.27] | 10 |
| [2019/07/27 v0.28] | 10 |
| [2019/11/12 v0.29] | 10 |
| [2019/12/09 v0.30] | 10 |
| 5 Index | 11 |

1 No usage

Caution: *This package is not intended for public use!*

It contains the macros and settings to generate the documentation of my packages in [CTAN:pkg/oberdiek](#). Thus the package does not know anything about compatibility. Only my current packages' documentation must compile.

Older versions were more interesting, because they contained code to add `hyperref`'s features to `LATEX`'s `doc` system, e.g. bookmarks and index links. I separated this stuff and made a new package `hypdoc`.

2 Implementation

```
1 \<{*package}
```

Package identification.

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{holtxdoc}%
4   [2019/12/09 v0.30 Private additional ltxdoc support (H0)]
5 \PassOptionsToPackage{pdfencoding=auto}{hyperref}
6 \RequirePackage[numbered]{hypdoc}[2010/03/26]
7 \RequirePackage{hyperref}[2010/03/30]
8 \RequirePackage{pdftexcmds}[2010/04/01]
9 \RequirePackage{ltxcmds}[2010/03/09]
10 \RequirePackage{hologo}[2011/11/22]
11 \RequirePackage{array}
```

2.1 Help macros

```
12 \def\hld@info#1{%
13   \PackageInfo{holtxdoc}{#1\@gobble}%
14 }
15 \def\hld@warn#1{%
16   \PackageWarningNoLine{holtxdoc}{#1}%
17 }
```

2.2 Font setup for Lua^AT_EX

```
18 \ifluatex
19   \RequirePackage{fontspec}[2011/09/18]%
20   \RequirePackage{unicode-math}[2011/09/19]%
21   \setmathfont{latinmodern-math.otf}%
22 \fi
```

2.3 Date

```
23 \ltx@ifundefined{pdf@filemoddate}{%
24 }{%
25   \edef\hld@temp{\pdf@filemoddate{\jobname.dtx}}%
26   \ifx\hld@temp\ltx@empty
27   \else
28     \begingroup
29       \def\x#1:#2#3#4#5#6#7#8#9{%
30         \year=#2#3#4#5\relax
31         \month=#6#7\relax
32         \day=#8#9\relax
33         \y
34       }%
35       \def\y#1#2#3#4#5@nil{%
36         \time=#1#2\relax
37         \multiply\time by 60\relax
38         \advance\time#3#4\relax
39       }%
40       \expandafter\x\hld@temp@nil
41       \edef\x{\endgroup
42         \year=\the\year\relax
43         \month=\the\month\relax
44         \day=\the\day\relax
45         \time=\the\time\relax
46       }%
47     \x
48     \edef\hld@temp{%
49       \noexpand\hypersetup{%
50         pdfcreationdate=\hld@temp,%
51         pdfmoddate=\hld@temp
52       }%
53     }%
54     \hld@temp
55 \fi
56 }
```

2.4 History

\historyname

```
57 \providecommand*{\historyname}{History}

58 \newcommand*{\StartHistory}{%
59   \section{\historyname}%
60 }
61 \@ifpackagelater{hyperref}{2009/11/27}{%
62   \newcommand*{\HistVersion}[1]{%
63     \subsection*{[#1]}% hash-ok
64     \addcontentsline{toc}{subsection}{[#1]}% hash-ok
65     \def\HistLabel##1{%
66       \begingroup
67       \protected@edef\@currentlabel{[#1]}% hash-ok
```

```

68     \label{##1}%
69   \endgroup
70 }%
71 }%
72 }{%
73   \newcommand*{\HistVersion}[1]{%
74     \subsection*{%
75       \phantomsection
76       \addcontentsline{toc}{subsection}{[#1]}% hash-ok
77       [#1]% hash-ok
78     }%
79     \def\HistLabel##1{%
80       \begingroup
81       \protected@edef\@currentlabel{[#1]}% hash-ok
82       \label{##1}%
83     \endgroup
84   }%
85 }%
86 }
87 \newenvironment{History}{%
88   \StartHistory
89   \def\Version##1{%
90     \HistVersion{##1}%
91     \@ifnextchar\end{%
92       \let\endVersion\relax
93     }{%
94       \let\endVersion\enditemize
95     \itemize
96   }%
97 }%
98 \raggedright
99 }{}

```

2.5 Formatting macros

\UrlFoot

#1: text

#2: url

```

100 \newcommand{\URL}[2]{%
101   \begingroup
102   \def\link{\href{#2}}%
103   #1%
104   \endgroup
105   \footnote{Url: \url{#2}}%
106 }

```

\NameEmail

#1: name

#2: email address

```

107 \newcommand*{\NameEmail}[2]{%
108   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
109 }
110 \def\hld@NameEmail#1#2{%
111   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
112 }
113 \def\hld@@NameEmail#1#2{%
114   \ifx\\#1#2\\%
115     \hld@warn{%

```

```

116     Command \string\NameEmail\space without name and email%
117 }%
118 \else
119   \ifx\#1\%
120     \href{mailto:#2}{\nolinkurl{#2}}%
121   \else
122     #1%
123     \ifx\#2\%
124       \else
125         \footnote{%
126           #1's email address: %
127           \href{mailto:#2}{\nolinkurl{#2}}%
128         }%
129       \fi
130     \fi
131   \fi
132 }

133 \newcommand*\Package[1]{\texttt{#1}}
134 \newcommand*\File[1]{\texttt{#1}}
135 \newcommand*\Verb[1]{\texttt{#1}}
136 \newcommand*\CS[1]{\texttt{\expandafter\@gobble\string\#1}}

137 \newcommand*\bibpackage[4]{%
138   \bibitem{#1}
139   Package \xpackage{#1}, #2, #3.%
140   \ifx\#4\else\space#4\fi\par
141 }

142 \newcommand*\CTAN[1]{%
143   \href{https://ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
144 }
145 \newcommand*\CTANinstall[1]{%
146   \href{http://mirrors.ctan.org/#1}{\nolinkurl{CTAN:#1}}%
147 }
148 \newcommand*\CTANpkg[1]{%
149   \href{http://ctan.org/pkg/#1}{\nolinkurl{CTAN:pkg/#1}}%
150 }

151 \newcommand*\Newsgroup[1]{%
152   \href{https://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
153 }

154 \newcommand*\xpackage[1]{\textsf{#1}}
155 \newcommand*\xmodule[1]{\textsf{#1}}
156 \newcommand*\xclass[1]{\textsf{#1}}
157 \newcommand*\xoption[1]{\textsf{#1}}
158 \newcommand*\xfile[1]{\texttt{#1}}
159 \newcommand*\xext[1]{\texttt{.#1}}
160 \newcommand*\xemail[1]{%
161   \textless\texttt{#1}\textgreater%
162 }
163 \newcommand*\xnewsgroup[1]{%
164   \href{news:#1}{\nolinkurl{#1}}%
165 }

```

The following environment declcs is derived from environment decl of ltxguide.cls:

```

166 \newenvironment{declcs}[1]{%
167   \par
168   \addvspace{4.5ex plus 1ex}%

```

```

169 \vskip -\parskip
170 \noindent
171 \hspace{-\leftmargini}%
172 \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
173 \def\*{\unskip\,\texttt{*}}%
174 \begin{tabular}{|l|}%
175 \hline
176 \expandafter\SpecialUsageIndex\csname #1\endcsname
177 \cs{#1}%
178 }{%
179 \\\%
180 \hline
181 \end{tabular}%
182 \nobreak
183 \par
184 \nobreak
185 \vspace{2.3ex}%
186 \vskip -\parskip
187 \noindent
188 \ignorespacesafterend
189 }

```

2.6 Names

```

190 \def\eTeX{\hologo{eTeX}}
191 \def\pdfTeX{\hologo{pdfTeX}}
192 \def\pdfLaTeX{\hologo{pdfLaTeX}}
193 \def\LuaTeX{\hologo{LuaTeX}}
194 \def\LuaLaTeX{\hologo{LuaLaTeX}}
195 \def\XeTeX{\hologo{XeTeX}}
196 \def\XeLaTeX{\hologo{XeLaTeX}}
197 \def\plainTeX{\hologo{plainTeX}}
198 \providecommand*{\teTeX}{\hologo{teTeX}}
199 \providecommand*{\mikTeX}{\hologo{MikTeX}}
200 \providecommand*{\MakeIndex}{\textsl{MakeIndex}}
201 \providecommand*{\docstrip}{\textsf{docstrip}}
202 \providecommand*{\iniTeX}{\hologo{iniTeX}}
203 \providecommand*{\VTeX}{\hologo{VTeX}}

```

2.7 Setup

2.7.1 Package doc

```

204 \CodelineIndex
205 \EnableCrossrefs
206 \setcounter{IndexColumns}{2}

207 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
208 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
209 \DoNotIndex{\expandafter,\noexpand,\string}
210 \DoNotIndex{\else,\fi,\or}
211 \DoNotIndex{\relax}

212 \IndexPrologue{%
213 \section*{Index}%
214 \markboth{Index}{Index}%
215 Numbers written in italic refer to the page %
216 where the corresponding entry is described; %
217 numbers underlined refer to the %
218 \ifcodeline@index

```

```

219     code line of the %
220 \fi
221 definition; plain numbers refer to the %
222 \ifcodeline@index
223     code lines %
224 \else
225     pages %
226 \fi
227 where the entry is used.%
228 }

```

2.7.2 Page layout

```

229 \addtolength{\textheight}{\headheight}
230 \addtolength{\textheight}{\headsep}
231 \setlength{\headheight}{0pt}
232 \setlength{\headsep}{0pt}

233 \addtolength{\topmargin}{-10mm}
234 \addtolength{\textheight}{20mm}

235 \</package>

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/holtxdoc.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/holtxdoc.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 T_EX Files” ([CTAN:pkg/tds](#)). Directories with `texmf` in their name are usually organized this way.

3.2 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
```

3.3 Package installation

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

```
tex holtxdoc.dtx
```

¹[CTAN:pkg/holtxdoc](#)

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

```
holtxdoc.sty → tex/latex/oberdiek/holtxdoc.sty
holtxdoc.pdf → doc/latex/oberdiek/holtxdoc.pdf
holtxdoc.dtx → source/latex/oberdiek/holtxdoc.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`.

3.4 Refresh file name databases

If your `TeX` distribution (`TeX Live`, `MiKTeX`, ...) relies on file name databases, you must refresh these. For example, `TeX Live` users run `texhash` or `mktextlsr`.

3.5 Some details for the interested

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{holtxdoc.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 holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
```

4 History

[1999/06/26 v0.3]

- ...

[2000/08/14 v0.4]

- ...

[2001/08/27 v0.5]

- ...

[2001/09/02 v0.6]

- ...

[2006/06/02 v0.7]

- Major change: most is put into a new package `hypdoc`.

[2007/10/21 v0.8]

- `\XeTeX` and `\XeLaTeX` added.

[2007/11/11 v0.9]

- `\LuaTeX` added.

[2007/12/12 v0.10]

- `\iniTeX` added.

[2008/08/11 v0.11]

- `\Newsgroup`, `\xnewsgroup`, and `\URL` updated.

[2009/08/07 v0.12]

- `\xmodule` added.

[2009/12/02 v0.13]

- Anchor hack for unnumbered subsections is removed for `hyperref` \geq 2009/11/27 6.79k.

[2010/02/03 v0.14]

- `\XeTeX` and `\XeLaTeX` are made robust.

[2010/03/10 v0.15]

- `\LuaTeX` changed according to Hans Hagen's definition in the `luatex` mailing list.

[2010/04/03 v0.16]

- Use date and time of `.dtx` file.

[2010/04/08 v0.17]

- Option `pdfencoding=auto` added for package `hyperref`.
- Package `hologo` added.

[2010/04/18 v0.18]

- Standard index prologue replaced by corrected prologue.

[2010/04/24 v0.19]

- Requested date of package `hologo` updated.

[2010/12/03 v0.20]

- History is now set using `\raggedright`.

[2011/02/04 v0.21]

- GL needs `\protected@edef` instead of `\edef` in `\HistLabel`.

[2011/11/22 v0.22]

- Font stuff added for Lua^AT_EX.

[2012/03/07 v0.23]

- Accept empty history version.

[2012/03/21 v0.24]

- Section title for history uses `\historyname`.

[2016/05/16 v0.25]

- Documentation updates.

[2016/05/16 v0.26]

- Documentation updates.

[2016/05/17 v0.27]

- New name for `lm math` font

[2019/07/27 v0.28]

- Use CTAN's preferred URL form for packages Documentation updates.

[2019/11/12 v0.29]

- Add `\bibpackage` (previously defined inline in some of the packages).
Adjust CTAN links.

[2019/12/09 v0.30]

- Documentation updates.
- Don't use `ifluatex` legacy package.
- use 'hologo' definitions in more cases.

5 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 | | \historyname 57, 59 | |
|----------------------------|------------------------------|---------------------------------|---|
| * | 173 | \HistVersion | 62, 73, 90 |
| \, | 173 | \hld@@NameEmail | 111, 113 |
| \@currentlabel | 67, 81 | \hld@info | 12 |
| \@gobble | 13, 136 | \hld@NameEmail | 108, 110 |
| \@ifnextchar | 91 | \hld@temp | 25, 26, 40, 48, 50, 51, 54 |
| \@ifpackagelater | 61 | \hld@warn | 15, 115 |
| \@nil | 35, 40 | \hline | 175, 180 |
| \\ | 114, 119, 123, 136, 140, 179 | \hologo | 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 202, 203 |
| \{ | 172 | \href | 102, 120, 127, 143, 146, 149, 152, 164 |
| \} | 172 | \hspace | 171 |
| A | | \hypersetup | 49 |
| \addcontentsline | 64, 76 | I | |
| \addtolength | 229, 230, 233, 234 | \ifcodeline@index | 218, 222 |
| \addvspace | 168 | \ifluatex | 18 |
| \advance | 38 | \ifx | 26, 114, 119, 123, 140 |
| B | | \ignorespacesafterend | 188 |
| \begin | 174 | \IndexPrologue | 212 |
| \bibitem | 138 | \iniTeX | 202 |
| \bibpackage | 137 | \itemize | 95 |
| C | | J | |
| \CodelineIndex | 204 | \jobname | 25 |
| \CS | 136 | L | |
| \cs | 177 | \label | 68, 82 |
| \csname | 176 | \leftmargini | 171 |
| \CTAN | 142 | \link | 102 |
| \CTANinstall | 145 | \ltx@empty | 26 |
| \CTANpkg | 148 | \ltx@ifUndefined | 23 |
| D | | \LuaLaTeX | 194 |
| \day | 32, 44 | \LuaTeX | 193 |
| \docstrip | 201 | M | |
| \DoNotIndex | 207, 208, 209, 210, 211 | \M | 172 |
| E | | \MakeIndex | 200 |
| \EnableCrossrefs | 205 | \markboth | 214 |
| \end | 91, 181 | \meta | 172 |
| \endcsname | 176 | \miktex | 199 |
| \enditemize | 94 | \month | 31, 43 |
| \endVersion | 92, 94 | \multiply | 37 |
| \eTeX | 190 | N | |
| F | | \NameEmail | 107, 116 |
| \File | 134 | \NeedsTeXFormat | 2 |
| \footnote | 105, 125 | \newcommand | 58, 62, 73, 100, 107, 133, 134, 135, 136, 137, 142, 145, 148, 151, 154, 155, 156, 157, 158, 159, 160, 163 |
| H | | | |
| \headheight | 229, 231 | | |
| \headsep | 230, 232 | | |
| \HistLabel | 65, 79 | | |

| | | | |
|---|---------------|-----------------------------------|-------------------------|
| <code>\newenvironment</code> | 87, 166 | <code>\textgreater</code> | 161 |
| <code>\Newsgroup</code> | 151 | <code>\textheight</code> | 229, 230, 234 |
| <code>\nobreak</code> | 182, 184 | <code>\textless</code> | 161 |
| <code>\noindent</code> | 170, 187 | <code>\textsf</code> | 154, 155, 156, 157, 201 |
| <code>\nolinkurl</code> | | <code>\textsl</code> | 200 |
| . 120, 127, 143, 146, 149, 152, 164 | | <code>\texttt</code> | 133, 134, |
| | | 135, 136, 158, 159, 161, 172, 173 | |
| P | | <code>\the</code> | 42, 43, 44, 45 |
| <code>\Package</code> | 133 | <code>\time</code> | 36, 37, 38, 45 |
| <code>\PackageInfo</code> | 13 | <code>\topmargin</code> | 233 |
| <code>\PackageWarningNoLine</code> | 16 | | |
| <code>\par</code> | 140, 167, 183 | U | |
| <code>\parskip</code> | 169, 186 | <code>\unskip</code> | 173 |
| <code>\PassOptionsToPackage</code> | 5 | <code>\URL</code> | 100 |
| <code>\pdf@filemoddate</code> | 25 | <code>\url</code> | 105 |
| <code>\pdfLaTeX</code> | 192 | | |
| <code>\pdfTeX</code> | 191 | V | |
| <code>\phantomsection</code> | 75 | <code>\Verb</code> | 135 |
| <code>\plainTeX</code> | 197 | <code>\Version</code> | 89 |
| <code>\protected@edef</code> | 67, 81 | <code>\vskip</code> | 169, 186 |
| <code>\providecommand</code> | | <code>\vspace</code> | 185 |
| . 57, 198, 199, 200, 201, 202, 203 | | <code>\VTeX</code> | 203 |
| <code>\ProvidesPackage</code> | 3 | | |
| | | X | |
| R | | <code>\x</code> | 29, 40, 41, 47 |
| <code>\raggedright</code> | 98 | <code>\xclass</code> | 156 |
| <code>\RequirePackage</code> 6, 7, 8, 9, 10, 11, 19, 20 | | <code>\XeLaTeX</code> | 196 |
| | | <code>\xemail</code> | 160 |
| S | | <code>\XeTeX</code> | 195 |
| <code>\section</code> | 59, 213 | <code>\xext</code> | 159 |
| <code>\setcounter</code> | 206 | <code>\xfile</code> | 158 |
| <code>\setlength</code> | 231, 232 | <code>\xmodule</code> | 155 |
| <code>\setmathfont</code> | 21 | <code>\xnewsgroup</code> | 163 |
| <code>\space</code> | 116, 140 | <code>\xoption</code> | 157 |
| <code>\SpecialUsageIndex</code> | 176 | <code>\xpackage</code> | 139, 154 |
| <code>\StartHistory</code> | 58, 88 | | |
| <code>\subsection</code> | 63, 74 | Y | |
| | | <code>\y</code> | 33, 35 |
| T | | <code>\year</code> | 30, 42 |
| <code>\teTeX</code> | 198 | | |