

The holtxdoc package

Heiko Oberdiek*

2019/11/12 v0.29

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 LuaL ^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
5 Index	10

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   [2019/11/12 v0.29 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{ifluatex}[2010/03/01]
12 \RequirePackage{array}
```

2.1 Help macros

```
13 \def\hld@info#1{%
14   \PackageInfo{holtxdoc}{#1\@gobble}%
15 }
16 \def\hld@warn#1{%
17   \PackageWarningNoLine{holtxdoc}{#1}%
18 }
```

2.2 Font setup for Lua^AT_EX

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

2.3 Date

```
24 \ltx@ifundefined{pdf@filemoddate}{%
25 }{%
26   \edef\hld@temp{\pdf@filemoddate{\jobname.dtx}}%
27   \ifx\hld@temp\ltx@empty
28   \else
29     \begingroup
30       \def\x#1:#2#3#4#5#6#7#8#9{%
31         \year=#2#3#4#5\relax
32         \month=#6#7\relax
33         \day=#8#9\relax
34         \y
35       }%
36       \def\y#1#2#3#4#5\@nil{%
37         \time=#1#2\relax
38         \multiply\time by 60\relax
39         \advance\time#3#4\relax
40       }%
41       \expandafter\x\hld@temp\@nil
42       \edef\x{\endgroup
43         \year=\the\year\relax
44         \month=\the\month\relax
45         \day=\the\day\relax
46         \time=\the\time\relax
47       }%
48     \x
49     \edef\hld@temp{%
50       \noexpand\hypersetup{%
51         pdfcreationdate=\hld@temp,%
52         pdfmoddate=\hld@temp
53       }%
54     }%
55     \hld@temp
56 \fi
57 }
```

2.4 History

\historyname

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

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

```

69     \label{##1}%
70   \endgroup
71 }%
72 }%
73 }{%
74   \newcommand*{\HistVersion}[1]{%
75     \subsection*{%
76       \phantomsection
77       \addcontentsline{toc}{subsection}{[#1]}% hash-ok
78       [#1]% hash-ok
79     }%
80     \def\HistLabel##1{%
81       \begingroup
82       \protected@edef\@currentlabel{[#1]}% hash-ok
83       \label{##1}%
84     \endgroup
85   }%
86 }%
87 }
88 \newenvironment{History}{%
89   \StartHistory
90   \def\Version##1{%
91     \HistVersion{##1}%
92     \@ifnextchar\end{%
93       \let\endVersion\relax
94     }{%
95       \let\endVersion\enditemize
96       \itemize
97     }%
98   }%
99   \raggedright
100 }{}

```

2.5 Formatting macros

```

\UrlFoot
#1: text
#2: url
101 \newcommand{\URL}[2]{%
102   \begingroup
103   \def\link{\href{#2}}%
104   #1%
105   \endgroup
106   \footnote{Url: \url{#2}}%
107 }

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

```

```

117 Command \string\NameEmail\space without name and email%
118 }%
119 \else
120 \ifx\#1\%
121 \href{mailto:#2}{\nolinkurl{#2}}%
122 \else
123 #1%
124 \ifx\#2\%
125 \else
126 \footnote{%
127 #1's email address: %
128 \href{mailto:#2}{\nolinkurl{#2}}%
129 }%
130 \fi
131 \fi
132 \fi
133 }

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

138 \newcommand*\bibpackage[4]{%
139 \bibitem{#1}
140 Package \xpackage{#1}, #2, #3.%
141 \ifx\#4\else\space#4\fi\par
142 }

143 \newcommand*\CTAN[1]{%
144 \href{https://ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
145 }
146 \newcommand*\CTANinstall[1]{%
147 \href{http://mirrors.ctan.org/#1}{\nolinkurl{CTAN:#1}}%
148 }
149 \newcommand*\CTANpkg[1]{%
150 \href{http://ctan.org/pkg/#1}{\nolinkurl{CTAN:pkg/#1}}%
151 }

152 \newcommand*\Newsgroup[1]{%
153 \href{https://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
154 }

155 \newcommand*\xpackage[1]{\textsf{#1}}
156 \newcommand*\xmodule[1]{\textsf{#1}}
157 \newcommand*\xclass[1]{\textsf{#1}}
158 \newcommand*\xoption[1]{\textsf{#1}}
159 \newcommand*\xfile[1]{\texttt{#1}}
160 \newcommand*\xext[1]{\texttt{.#1}}
161 \newcommand*\xemail[1]{%
162 \textless\texttt{#1}\textgreater%
163 }
164 \newcommand*\xnewsgroup[1]{%
165 \href{news:#1}{\nolinkurl{#1}}%
166 }

```

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

```

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

```

```

170 \vskip -\parskip
171 \noindent
172 \hspace{-\leftmargini}%
173 \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
174 \def\*{\unskip\,\texttt{*}}%
175 \begin{tabular}{|l|}%
176 \hline
177 \expandafter\SpecialUsageIndex\csname #1\endcsname
178 \cs{#1}%
179 }{%
180 \\\%
181 \hline
182 \end{tabular}%
183 \nobreak
184 \par
185 \nobreak
186 \vspace{2.3ex}%
187 \vskip -\parskip
188 \noindent
189 \ignorespacesafterend
190 }

```

2.6 Names

```

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

```

2.7 Setup

2.7.1 Package doc

```

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

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

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

```

```

220     code line of the %
221 \fi
222 definition; plain numbers refer to the %
223 \ifcodeline@index
224     code lines %
225 \else
226     pages %
227 \fi
228 where the entry is used.%
229 }

```

2.7.2 Page layout

```

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

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

236 \</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.

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	
<code>\@gobble</code>	<i>14, 137</i>
<code>*</code>	<i>174</i>
<code>\,</code>	<i>174</i>
<code>\@currentlabel</code>	<i>68, 82</i>
<code>\@ifnextchar</code>	<i>92</i>
<code>\@ifpackagelater</code>	<i>62</i>
<code>\@nil</code>	<i>36, 41</i>

<code>\\</code>	115, 120, 124, 137, 141, 180		
<code>\{</code>	173		
<code>\}</code>	173		
A			
<code>\addcontentsline</code>	65, 77		
<code>\addtolength</code>	230, 231, 234, 235		
<code>\addvspace</code>	169		
<code>\advance</code>	39		
B			
<code>\begin</code>	175		
<code>\bibitem</code>	139		
<code>\bibpackage</code>	138		
C			
<code>\CodelineIndex</code>	205		
<code>\CS</code>	137		
<code>\cs</code>	178		
<code>\csname</code>	177		
<code>\CTAN</code>	143		
<code>\CTANinstall</code>	146		
<code>\CTANpkg</code>	149		
D			
<code>\day</code>	33, 45		
<code>\docstrip</code>	202		
<code>\DoNotIndex</code> ...	208, 209, 210, 211, 212		
E			
<code>\EnableCrossrefs</code>	206		
<code>\end</code>	92, 182		
<code>\endcsname</code>	177		
<code>\enditemize</code>	95		
<code>\endVersion</code>	93, 95		
<code>\eTeX</code>	191		
F			
<code>\File</code>	135		
<code>\footnote</code>	106, 126		
H			
<code>\headheight</code>	230, 232		
<code>\headsep</code>	231, 233		
<code>\HistLabel</code>	66, 80		
<code>\historyname</code>	58, 60		
<code>\HistVersion</code>	63, 74, 91		
<code>\hld@@NameEmail</code>	112, 114		
<code>\hld@info</code>	13		
<code>\hld@NameEmail</code>	109, 111		
<code>\hld@temp</code> ...	26, 27, 41, 49, 51, 52, 55		
<code>\hld@warn</code>	16, 116		
<code>\hline</code>	176, 181		
<code>\hologo</code>	191,		
	192, 193, 194, 195, 196, 197, 198		
<code>\href</code>	103,		
	121, 128, 144, 147, 150, 153, 165		
<code>\hspace</code>	172		
<code>\hypersetup</code>	50		
I			
<code>\ifcodeline@index</code>	219, 223		
<code>\ifluatex</code>	19		
<code>\ifx</code>	27, 115, 120, 124, 141		
<code>\ignorespacesafterend</code>	189		
<code>\IndexPrologue</code>	213		
<code>\iniTeX</code>	203		
<code>\itemize</code>	96		
J			
<code>\jobname</code>	26		
L			
<code>\label</code>	69, 83		
<code>\leftmargin</code>	172		
<code>\link</code>	103		
<code>\ltx@empty</code>	27		
<code>\ltx@ifundefined</code>	24		
<code>\LuaLaTeX</code>	195		
<code>\LuaTeX</code>	194		
M			
<code>\M</code>	173		
<code>\MakeIndex</code>	201		
<code>\markboth</code>	215		
<code>\mbox</code>	203		
<code>\meta</code>	173		
<code>\miktex</code>	200		
<code>\month</code>	32, 44		
<code>\multiply</code>	38		
N			
<code>\NameEmail</code>	108, 117		
<code>\NeedsTeXFormat</code>	2		
<code>\newcommand</code>	59, 63,		
	74, 101, 108, 134, 135, 136, 137,		
	138, 143, 146, 149, 152, 155,		
	156, 157, 158, 159, 160, 161, 164		
<code>\newenvironment</code>	88, 167		
<code>\Newsgroup</code>	152		
<code>\nobreak</code>	183, 185		
<code>\noindent</code>	171, 188		
<code>\nolinkurl</code>			
	121, 128, 144, 147, 150, 153, 165		
P			
<code>\Package</code>	134		
<code>\PackageInfo</code>	14		
<code>\PackageWarningNoLine</code>	17		
<code>\par</code>	141, 168, 184		
<code>\parskip</code>	170, 187		
<code>\PassOptionsToPackage</code>	5		
<code>\pdf@filemoddate</code>	26		
<code>\pdfLaTeX</code>	193		
<code>\pdfTeX</code>	192		
<code>\phantomsection</code>	76		
<code>\plainTeX</code>	198		
<code>\protected@edef</code>	68, 82		

<code>\providecommand</code>	<code>\topmargin</code> 234
.. 58, 199, 200, 201, 202, 203, 204	
<code>\ProvidesPackage</code> 3	
R	
<code>\raggedright</code> 99	
<code>\RequirePackage</code>	
..... 6, 7, 8, 9, 10, 11, 12, 20, 21	
S	
<code>\section</code> 60, 214	
<code>\setcounter</code> 207	
<code>\setlength</code> 232, 233	
<code>\setmathfont</code> 22	
<code>\space</code> 117, 141	
<code>\SpecialUsageIndex</code> 177	
<code>\StartHistory</code> 59, 89	
<code>\subsection</code> 64, 75	
T	
<code>\teTeX</code> 199	
<code>\TeX</code> 199, 200, 203, 204	
<code>\textgreater</code> 162	
<code>\textheight</code> 230, 231, 235	
<code>\textless</code> 162	
<code>\textsf</code> 155, 156, 157, 158, 202	
<code>\textsl</code> 201	
<code>\texttt</code> 134, 135,	
136, 137, 159, 160, 162, 173, 174	
<code>\the</code> 43, 44, 45, 46	
<code>\time</code> 37, 38, 39, 46	
U	
<code>\unskip</code> 174	
<code>\URL</code> 101	
<code>\url</code> 106	
V	
<code>\Verb</code> 136	
<code>\Version</code> 90	
<code>\vskip</code> 170, 187	
<code>\vspace</code> 186	
<code>\VTeX</code> 204	
X	
<code>\x</code> 30, 41, 42, 48	
<code>\xclass</code> 157	
<code>\XeLaTeX</code> 197	
<code>\xemail</code> 161	
<code>\XeTeX</code> 196	
<code>\xext</code> 160	
<code>\xfile</code> 159	
<code>\xmodule</code> 156	
<code>\xnewsgroup</code> 164	
<code>\xoption</code> 158	
<code>\xpackage</code> 140, 155	
Y	
<code>\y</code> 34, 36	
<code>\year</code> 31, 43	