

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 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
[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\TeX{\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		