

The `holtxdoc` package

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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`.

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

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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^L_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     \beginingroup
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   \beginingroup
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{-\leftmargin}%

```

```

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 \end{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.

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