

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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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:macros/latex/contrib/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 L^AT_EX'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 [2011/02/04 v0.21 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}[2010/04/24]
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 Date

```
18 \ltx@ifundefined{pdf@filemoddate}{%
19 }{%
20   \edef\hld@temp{\pdf@filemoddate{\jobname.dtx}}%
21   \ifx\hld@temp\ltx@empty
22     \else
23       \begingroup
24         \def\x1:#2#3#4#5#6#7#8#9{%
25           \year=#2#3#4#5\relax
26           \month=#6#7\relax
27           \day=#8#9\relax
28           \y
29         }%
30         \def\y1#2#3#4#5\@nil{%
31           \time=#1#2\relax
32           \multiply\time by 60\relax
33           \advance\time#3#4\relax
34         }%
35         \expandafter\x\hld@temp\@nil
36       \edef\x{\endgroup
```

```

37         \year=\the\year\relax
38         \month=\the\month\relax
39         \day=\the\day\relax
40         \time=\the\time\relax
41     }%
42     \x
43     \edef\hld@temp{%
44         \noexpand\hypersetup{%
45             pdfcreationdate=\hld@temp,%
46             pdfmoddate=\hld@temp
47         }%
48     }%
49     \hld@temp
50 \fi
51 }

```

2.3 History

```

52 \newcommand*\StartHistory{%
53     \section{History}%
54 }
55 \@ifpackagelater{hyperref}{2009/11/27}{%
56     \newcommand*\HistVersion[1]{%
57         \subsection*{[#1]}% hash-ok
58         \addcontentsline{toc}{subsection}{[#1]}% hash-ok
59         \def\HistLabel##1{%
60             \begingroup
61             \protected@edef\@currentlabel{[#1]}% hash-ok
62             \label{##1}%
63         \endgroup
64     }%
65 }%
66 }{%
67     \newcommand*\HistVersion[1]{%
68         \subsection*{%
69             \phantomsection
70             \addcontentsline{toc}{subsection}{[#1]}% hash-ok
71             [#1]% hash-ok
72         }%
73         \def\HistLabel##1{%
74             \begingroup
75             \protected@edef\@currentlabel{[#1]}% hash-ok
76             \label{##1}%
77         \endgroup
78     }%
79 }%
80 }
81 \newenvironment{History}{%
82     \StartHistory
83     \def\Version##1{%
84         \HistVersion{##1}%
85         \itemize
86     }%
87     \let\endVersion\enditemize
88     \raggedright
89 }{}

```

2.4 Formatting macros

```

\UrlFoot
#1: text
#2: url
90 \newcommand{\URL}[2]{%
91     \begingroup

```

```

92     \def\link{\href{#2}}%
93     #1%
94 \endgroup
95 \footnote{Url: \url{#2}}%
96 }

\NameEmail
#1: name
#2: email address

97 \newcommand*{\NameEmail}[2]{%
98   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
99 }
100 \def\hld@NameEmail#1#2{%
101   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
102 }
103 \def\hld@@NameEmail#1#2{%
104   \ifx\#1#2\%
105     \hld@warn{%
106       Command \string\NameEmail\space without name and email%
107     }%
108   \else
109     \ifx\#1\%
110       \href{mailto:#2}{\nolinkurl{#2}}%
111     \else
112       #1%
113       \ifx\#2\%
114       \else
115         \footnote{%
116           #1's email address: %
117           \href{mailto:#2}{\nolinkurl{#2}}%
118         }%
119       \fi
120     \fi
121   \fi
122 }

123 \newcommand*{\Package}[1]{\texttt{#1}}
124 \newcommand*{\File}[1]{\texttt{#1}}
125 \newcommand*{\Verb}[1]{\texttt{#1}}
126 \newcommand*{\CS}[1]{\texttt{\expandafter\@gobble\string\#1}}

127 \newcommand*{\CTAN}[1]{%
128   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
129 }

130 \newcommand*{\Newsgroup}[1]{%
131   \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
132 }

133 \newcommand*{\xpackage}[1]{\textsf{#1}}
134 \newcommand*{\xmodule}[1]{\textsf{#1}}
135 \newcommand*{\xclass}[1]{\textsf{#1}}
136 \newcommand*{\xoption}[1]{\textsf{#1}}
137 \newcommand*{\xfile}[1]{\texttt{#1}}
138 \newcommand*{\xext}[1]{\texttt{.#1}}
139 \newcommand*{\xemail}[1]{%
140   \textless\texttt{#1}\textgreater%
141 }
142 \newcommand*{\xnewsgroup}[1]{%
143   \href{news:#1}{\nolinkurl{#1}}%
144 }

```

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

```

145 \newenvironment{declcs}[1]{%

```

```

146 \par
147 \addvspace{4.5ex plus 1ex}%
148 \vskip -\parskip
149 \noindent
150 \hspace{-\leftmargini}%
151 \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
152 \def\*{\unskip\,\texttt{*}}%
153 \begin{tabular}{|l|}%
154     \hline
155     \expandafter\SpecialUsageIndex\csname #1\endcsname
156     \cs{#1}%
157 }-%
158 \\
159 \hline
160 \end{tabular}%
161 \nobreak
162 \par
163 \nobreak
164 \vspace{2.3ex}%
165 \vskip -\parskip
166 \noindent
167 \ignorespacesafterend
168 }

```

2.5 Names

```

169 \def\eTeX{\hologo{eTeX}}
170 \def\pdfTeX{\hologo{pdfTeX}}
171 \def\pdfLaTeX{\hologo{pdfLaTeX}}
172 \def\LuaTeX{\hologo{LuaTeX}}
173 \def\LuaLaTeX{\hologo{LuaLaTeX}}
174 \def\XeTeX{\hologo{XeTeX}}
175 \def\XeLaTeX{\hologo{XeLaTeX}}
176 \def\plainTeX{\hologo{plainTeX}}
177 \providecommand*\teTeX{\teTeX}
178 \providecommand*\mikTeX{\mikTeX}
179 \providecommand*\MakeIndex{\textsl{MakeIndex}}
180 \providecommand*\docstrip{\textsf{docstrip}}
181 \providecommand*\iniTeX{\mbox{ini-TeX}}
182 \providecommand*\VTeX{\VTeX}

```

2.6 Setup

2.6.1 Package doc

```

183 \CodelineIndex
184 \EnableCrossrefs
185 \setcounter{IndexColumns}{2}

186 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
187 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
188 \DoNotIndex{\expandafter,\noexpand,\string}
189 \DoNotIndex{\else,\fi,\or}
190 \DoNotIndex{\relax}

191 \IndexPrologue{%
192     \section*{Index}%
193     \markboth{Index}{Index}%
194     Numbers written in italic refer to the page %
195     where the corresponding entry is described; %
196     numbers underlined refer to the %
197     \ifcodeline@index
198         code line of the %
199     \fi
200     definition; plain numbers refer to the %

```

```

201 \ifcodeline@index
202   code lines %
203 \else
204   pages %
205 \fi
206 where the entry is used.%
207 }

```

2.6.2 Page layout

```

208 \addtolength{\textheight}{\headheight}
209 \addtolength{\textheight}{\headsep}
210 \setlength{\headheight}{0pt}
211 \setlength{\headsep}{0pt}

212 \addtolength{\topmargin}{-10mm}
213 \addtolength{\textheight}{20mm}

214 \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:tds/tds.pdf](#)). 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
```

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/
```

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<http://ftp.ctan.org/tex-archive/>

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 $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` users run `texhash` or `mktextlsr`.

3.5 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 holtxdoc.pdf unpack_files output .
```

Unpacking with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), 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 `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

```
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.

- Requested date of package holo updated.

- History is now set using `\raggedright`.

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

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.

\month	26, 38	T	
\multiply	32	\teTeX	177
N		\TeX	177, 178, 181, 182
\NameEmail	97, 106	\textgreater	140
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\PackageInfo	13	\URL	90
\PackageWarningNoLine	16	\url	95
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\parskip	148, 165	\Verb	125
\PassOptionsToPackage	5	\Version	83
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\pdfTeX	170	\VTeX	182
\phantomsection	69	X	
\plainTeX	176	\x	24, 35, 36, 42
\protected@edef	61, 75	\xclass	135
\providecommand		\XeLaTeX	175
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\ProvidesPackage	3	\XeTeX	174
R		\xext	138
\raggedright	88	\xfile	137
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\setcounter	185	\xpackage	133
\setlength	210, 211	Y	
\space	106	\y	28, 30
\SpecialUsageIndex	155	\year	25, 37
\StartHistory	52, 82		
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