

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.

Contents

1	No usage	2
2	Implementation	2
2.1	Help macros	2
2.2	History	2
2.3	Formatting macros	3
2.4	Names	4
2.5	Setup	6
2.5.1	Package doc	6
2.5.2	Page layout	6
3	Installation	6
3.1	Download	6
3.2	Bundle installation	6
3.3	Package installation	6
3.4	Refresh file name databases	7
3.5	Some details for the interested	7
4	History	7
[1999/06/26 v0.3]		7
[2000/08/14 v0.4]		7
[2001/08/27 v0.5]		8
[2001/09/02 v0.6]		8
[2006/06/02 v0.7]		8
[2007/10/21 v0.8]		8
[2007/11/11 v0.9]		8
[2007/12/12 v0.10]		8
[2008/08/11 v0.11]		8
[2009/08/07 v0.12]		8
[2009/12/02 v0.13]		8
[2010/02/03 v0.14]		8
[2010/03/10 v0.15]		8
5	Index	8

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   [2010/03/10 v0.15 Private additional ltxdoc support (HO)]
5 \RequirePackage[numbered]{hypdoc}
6 \RequirePackage{array}
```

2.1 Help macros

```
7 \def\hld@info#1{%
8   \PackageInfo{holtxdoc}{#1\@gobble}%
9 }
10 \def\hld@warn#1{%
11   \PackageWarningNoLine{holtxdoc}{#1}%
12 }
```

2.2 History

```
13 \newcommand*\StartHistory{%
14   \section{History}%
15 }
16 \@ifpackagelater{hyperref}{2009/11/27}{%
17   \newcommand*\HistVersion[1]{%
18     \subsection*{[#1]}% hash-ok
19     \addcontentsline{toc}{subsection}{[#1]}% hash-ok
20     \def\HistLabel##1{%
21       \begingroup
22         \edef\@currentlabel{[#1]}% hash-ok
23         \label{##1}%
24       \endgroup
25     }%
26   }%
27 }{%
28   \newcommand*\HistVersion[1]{%
29     \subsection*{%
30       \phantomsection
31       \addcontentsline{toc}{subsection}{[#1]}% hash-ok
32       [#1]% hash-ok
33     }%
34     \def\HistLabel##1{%
35       \begingroup
36         \edef\@currentlabel{[#1]}% hash-ok
37         \label{##1}%
38       \endgroup
39     }%
40   }%
41 }
42 \newenvironment{History}{%
```

```

43 \StartHistory
44 \def\Version##1{%
45   \HistVersion{##1}%
46   \itemize
47 }%
48 \let\endVersion\enditemize
49 }{}

```

2.3 Formatting macros

```

\UrlFoot
#1: text
#2: url

50 \newcommand{\URL}[2]{%
51   \begingroup
52   \def\link{\href{#2}}%
53   #1%
54   \endgroup
55   \footnote{Url: \url{#2}}%
56 }

\NameEmail
#1: name
#2: email address

57 \newcommand*\NameEmail[2]{%
58   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
59 }
60 \def\hld@NameEmail#1#2{%
61   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
62 }
63 \def\hld@@NameEmail#1#2{%
64   \ifx\#1#2\%
65     \hld@warn{%
66       Command \string\NameEmail\space without name and email%
67     }%
68   \else
69     \ifx\#1\%
70       \href{mailto:#2}{\nolinkurl{#2}}%
71     \else
72       #1%
73       \ifx\#2\%
74       \else
75         \footnote{%
76           #1's email address: %
77           \href{mailto:#2}{\nolinkurl{#2}}%
78         }%
79       \fi
80     \fi
81   \fi
82 }

83 \newcommand*\Package[1]{\texttt{#1}}
84 \newcommand*\File[1]{\texttt{#1}}
85 \newcommand*\Verb[1]{\texttt{#1}}
86 \newcommand*\CS[1]{\texttt{\expandafter\@gobble\string\#1}}

87 \newcommand*\CTAN[1]{%
88   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
89 }

90 \newcommand*\Newsgroup[1]{%
91   \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
92 }

93 \newcommand*\xpackage[1]{\textsf{#1}}

```

```

94 \newcommand*{\xmodule}[1]{\textsf{#1}}
95 \newcommand*{\xclass}[1]{\textsf{#1}}
96 \newcommand*{\xoption}[1]{\textsf{#1}}
97 \newcommand*{\xfile}[1]{\texttt{#1}}
98 \newcommand*{\xext}[1]{\texttt{.#1}}
99 \newcommand*{\xemail}[1]{%
100   \textless\texttt{#1}\textgreater}%
101 }
102 \newcommand*{\xnewsgroup}[1]{%
103   \href{news:#1}{\nolinkurl{#1}}}%
104 }

```

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

```

105 \newenvironment{declcs}[1]{%
106   \par
107   \addvspace{4.5ex plus 1ex}%
108   \vskip -\parskip
109   \noindent
110   \hspace{-\leftmargini}%
111   \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
112   \def\*{\unskip\,\texttt{*}}%
113   \begin{tabular}{|l|}%
114     \hline
115     \expandafter\SpecialUsageIndex\csname #1\endcsname
116     \cs{#1}%
117   }{%
118     \\%
119     \hline
120   \end{tabular}%
121   \nobreak
122   \par
123   \nobreak
124   \vspace{2.3ex}%
125   \vskip -\parskip
126   \noindent
127   \ignorespacesafterend
128 }

```

2.4 Names

```

129 \providecommand*{\eTeX}{\mbox{$\varepsilon$-TeX}}
130 \providecommand*{\pdfTeX}{pdfTeX}
131 \providecommand*{\pdfLaTeX}{pdfLaTeX}

```

`\LuaTeX` Hans Hagen has suggested to improve the ‘aT’ kerning in the mailing list ‘luatex at tug.org’ at 2010-03-09 19:59:

Actually we can make a nice definition using the RL typesetting ... as not that many fonts have a proper ‘aT’ kerning we can do the following:

```

\def\LuaTeX
{
  \begingroup
  Lua%
  \setbox0\hbox{oT}%
  \setbox2\hbox{o\kern0ptT}%
  \ifdim\wd0=\wd2
    \setbox0\hbox{dir TRT{To}}%
    \setbox2\hbox{T\kern0pto}%
    \hskip\dimexpr\wd0-\wd2\relax
  \fi
  \TeX
\endgroup

```

Of course this ignores the fact that the a is not symmetrical which is why we use the o instead but it looks impressive (as the ‘T’ normally is symmetrical we don’t really need the need the dir).

```

132 \providecommand*\LuaTeX{%
133   \begingroup
134     Lua%
135     \setbox0\hbox{aT}%
136     \setbox2\hbox{a\kern0ptT}%
137     \ifdim\wd0<\wd2 %
138       \else
139         \setbox0\hbox{oT}%
140         \setbox2\hbox{o\kern0ptT}%
141         \ifdim\wd0<\wd2 %
142           \else
143             \setbox0\hbox{To}%
144             \setbox2\hbox{T\kern0pto}%
145           \fi
146         \ifdim\wd0<\wd2 %
147           \dimen0=\wd0 %
148           \advance\dimen0-\wd2 %
149           \kern\dimen0 %
150         \fi
151       \fi
152     \TeX
153   \endgroup
154 }

155 \def\@temp#1#2{%
156   \@ifundefined{\expandafter\@gobble\string#1}{%
157     \DeclareRobustCommand*{#1}{%
158       \texorpdfstring{%
159         \begingroup
160           X%
161           \kern-.1em\relax
162           \@ifundefined{rotatebox}{e}{%
163             \lower0.5ex\hbox{%
164               \setbox0=\hbox{E}%
165               \dimen0=\ht0 %
166               \advance\dimen0 by \dp0 %
167               \raise\dimen0\hbox{\rotatebox{180}{\box0}}}%
168             }%
169           }%
170         }{Xe}%
171       \ifx\TeX#2\relax
172         \kern-.15em\relax
173       \fi
174       #2%
175     \endgroup
176   }%
177 }{}%
178 }

179 \@temp\XeTeX\TeX
180 \@temp\XeLaTeX\LaTeX
181 \providecommand*\teTeX{\teTeX}
182 \providecommand*\mikTeX{\mikTeX}
183 \providecommand*\MakeIndex{\textsl{MakeIndex}}
184 \providecommand*\docstrip{\textsf{docstrip}}
185 \providecommand*\plainTeX{\mbox{plain-\TeX}}
186 \providecommand*\iniTeX{\mbox{ini-\TeX}}
187 \providecommand*\VTeX{\VTeX}

```

2.5 Setup

2.5.1 Package doc

```
188 \CodelineIndex
189 \EnableCrossrefs
190 \setcounter{IndexColumns}{2}

191 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
192 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
193 \DoNotIndex{\expandafter,\noexpand,\string}
194 \DoNotIndex{\else,\fi,\or}
195 \DoNotIndex{\relax}
```

2.5.2 Page layout

```
196 \addtolength{\textheight}{\headheight}
197 \addtolength{\textheight}{\headsep}
198 \setlength{\headheight}{0pt}
199 \setlength{\headsep}{0pt}

200 \addtolength{\topmargin}{-10mm}
201 \addtolength{\textheight}{20mm}

202 \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.

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; numbers in roman refer to the code lines where the entry is used.

Symbols	
<code>*</code>	<code>\@temp</code> 155, 179, 180
<code>\,</code>	<code>\</code> 64, 69, 73, 86, 118
<code>\@currentlabel</code>	<code>\{</code> 111
<code>\@gobble</code>	<code>\}</code> 111
<code>\@ifpackagelater</code>	
<code>\@ifundefined</code>	
	A
	<code>\addcontentsline</code> 19, 31

<code>\addtolength</code>	196, 197, 200, 201	<code>\link</code>	52
<code>\addvspace</code>	107	<code>\lower</code>	163
<code>\advance</code>	148, 166	<code>\LuaTeX</code>	132
B		M	
<code>\begin</code>	113	<code>\M</code>	111
<code>\box</code>	167	<code>\MakeIndex</code>	183
C		<code>\mbox</code>	129, 185, 186
<code>\CodelineIndex</code>	188	<code>\meta</code>	111
<code>\CS</code>	86	<code>\miktex</code>	182
<code>\cs</code>	116	N	
<code>\csname</code>	115	<code>\NameEmail</code>	57, 66
<code>\CTAN</code>	87	<code>\NeedsTeXFormat</code>	2
D		<code>\newcommand</code>	13, 17, 28, 50, 57, 83, 84, 85, 86, 87, 90, 93, 94, 95, 96, 97, 98, 99, 102
<code>\DeclareRobustCommand</code>	157	<code>\newenvironment</code>	42, 105
<code>\dimen</code>	147, 148, 149, 165, 166, 167	<code>\Newsgroup</code>	90
<code>\docstrip</code>	184	<code>\nobreak</code>	121, 123
<code>\DoNotIndex</code>	191, 192, 193, 194, 195	<code>\noindent</code>	109, 126
<code>\dp</code>	166	<code>\nolinkurl</code>	70, 77, 88, 91, 103
E		P	
<code>\EnableCrossrefs</code>	189	<code>\Package</code>	83
<code>\end</code>	120	<code>\PackageInfo</code>	8
<code>\endcsname</code>	115	<code>\PackageWarningNoLine</code>	11
<code>\enditemize</code>	48	<code>\par</code>	106, 122
<code>\endVersion</code>	48	<code>\parskip</code>	108, 125
<code>\eTeX</code>	129	<code>\pdfLaTeX</code>	131
F		<code>\pdfTeX</code>	130
<code>\File</code>	84	<code>\phantomsection</code>	30
<code>\footnote</code>	55, 75	<code>\plainTeX</code>	185
H		<code>\providecommand</code>	129, 130, 131, 132, 181, 182, 183, 184, 185, 186, 187
<code>\hbox</code>	135, 136, 139, 140, 143, 144, 163, 164, 167	<code>\ProvidesPackage</code>	3
<code>\headheight</code>	196, 198	R	
<code>\headsep</code>	197, 199	<code>\raise</code>	167
<code>\HistLabel</code>	20, 34	<code>\RequirePackage</code>	5, 6
<code>\HistVersion</code>	17, 28, 45	<code>\rotatebox</code>	167
<code>\hld@@NameEmail</code>	61, 63	S	
<code>\hld@info</code>	7	<code>\section</code>	14
<code>\hld@NameEmail</code>	58, 60	<code>\setbox</code>	135, 136, 139, 140, 143, 144, 164
<code>\hld@warn</code>	10, 65	<code>\setcounter</code>	190
<code>\hline</code>	114, 119	<code>\setlength</code>	198, 199
<code>\href</code>	52, 70, 77, 88, 91, 103	<code>\space</code>	66
<code>\hspace</code>	110	<code>\SpecialUsageIndex</code>	115
<code>\ht</code>	165	<code>\StartHistory</code>	13, 43
I		<code>\subsection</code>	18, 29
<code>\ifdim</code>	137, 141, 146	T	
<code>\ifx</code>	64, 69, 73, 171	<code>\teTeX</code>	181
<code>\ignorespacesafterend</code>	127	<code>\TeX</code>	129, 130, 152, 171, 179, 181, 182, 185, 186, 187
<code>\iniTeX</code>	186	<code>\texorpdfstring</code>	158
<code>\itemize</code>	46	<code>\textgreater</code>	100
K		<code>\textheight</code>	196, 197, 201
<code>\kern</code>	136, 140, 144, 149, 161, 172	<code>\textless</code>	100
L		<code>\textsf</code>	93, 94, 95, 96, 184
<code>\label</code>	23, 37	<code>\textsl</code>	183
<code>\LaTeX</code>	131, 180	<code>\texttt</code>	83, 84, 85, 86, 97, 98, 100, 111, 112
<code>\leftmargin</code>	110	<code>\topmargin</code>	200

U		W	
\unskip	112	\wd	137, 141, 146, 147, 148
\URL	50	X	
\url	55	\xclass	95
V		\XeLaTeX	180
\varepsilon	129	\xemail	99
\Verb	85	\XeTeX	179
\Version	44	\xext	98
\vskip	108, 125	\xfile	97
\vspace	124	\xmodule	94
\TeX	187	\xnewsgroup	102
		\xoption	96
		\xpackage	93