

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}
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       \begin{group}%
22         \edef@\currentlabel{[#1]}% hash-ok
23         \label{##1}%
24       \end{group}%
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     \begin{group}%
36       \edef@\currentlabel{[#1]}% hash-ok
37       \label{##1}%
38     \end{group}%
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 `decls` is derived from environment `decl` of `ltxguide.cls`:

```

105 \newenvironment{decls}[1]{%
106   \par
107   \addvspace{4.5ex plus 1ex}%
108   \vskip -\parskip
109   \noindent
110   \hspace{-\leftmargini}%
111   \def\#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}{pdf\TeX}
131 \providecommand*{\pdfLaTeX}{pdf\LaTeX}

```

\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 \providetcommand*\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 \providetcommand*\teTeX{te\TeX}
182 \providetcommand*\mikTeX{mik\TeX}
183 \providetcommand*\MakeIndex{\textsf{MakeIndex}}
184 \providetcommand*\docstrip{\textsf{docstrip}}
185 \providetcommand*\plainTeX{\mbox{plain-\TeX}}
186 \providetcommand*\iniTeX{\mbox{ini-\TeX}}
187 \providetcommand*\VTeX{V\TeX}

```

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 
```

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 `TDSScripts/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[ftp://ftp.ctan.org/tex-archive/](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 `TeX` distribution (`teTeX`, `mikTeX`, ...) relies on file name databases, you must refresh these. For example, `teTeX` users run `texhash` or `mktexlsr`.

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 L^AT_EX. The `.dtx` chooses its action depending on the format:

plain-`TeX`: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), 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 pdfL^AT_EX:

```
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.

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