

# The holtxdoc package

Heiko Oberdiek  
<heiko.oberdiek at googlemail.com>

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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/](http://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<sup>A</sup>T<sub>E</sub>X'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   [2010/02/03 v0.14 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}
132 \providecommand*{\LuaTeX}{L\textsc{ua}TeX}
133 \def\@temp#1#2{%
134   \@ifundefined{\expandafter\@gobble\string#1}{%
135     \DeclareRobustCommand*{#1}{%
136       \texorpdfstring{%
137         \begin{group
138           X%
139           \kern-.1em\relax
140           \@ifundefined{rotatebox}{e}{%
141             \lower0.5ex\hbox{%
142               \setbox0=\hbox{E}%
143               \dimen0=\ht0 %
144               \advance\dimen0 by \dp0 %
145               \raise\dimen0\hbox{\rotatebox{180}{\box0}}}%
146             }%
147           }{Xe}%
148           \ifx\TeX#2\relax
149             \kern-.15em\relax

```

```

151         \fi
152         #2%
153     \endgroup
154 }%
155 }{}%
156 }
157 \@temp\XeTeX\TeX
158 \@temp\XeLaTeX\LaTeX
159 \providecommand*{\teTeX}{te\TeX}
160 \providecommand*{\mikTeX}{mik\TeX}
161 \providecommand*{\MakeIndex}{\textsl{MakeIndex}}
162 \providecommand*{\docstrip}{\textsf{docstrip}}
163 \providecommand*{\plainTeX}{\mbox{plain-\TeX}}
164 \providecommand*{\iniTeX}{\mbox{ini-\TeX}}
165 \providecommand*{\VTeX}{V\TeX}

```

## 2.5 Setup

### 2.5.1 Package doc

```

166 \CodelineIndex
167 \EnableCrossrefs
168 \setcounter{IndexColumns}{2}

169 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
170 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
171 \DoNotIndex{\expandafter,\noexpand,\string}
172 \DoNotIndex{\else,\fi,\or}
173 \DoNotIndex{\relax}

```

### 2.5.2 Page layout

```

174 \addtolength{\textheight}{\headheight}
175 \addtolength{\textheight}{\headsep}
176 \setlength{\headheight}{0pt}
177 \setlength{\headsep}{0pt}

178 \addtolength{\topmargin}{-10mm}
179 \addtolength{\textheight}{20mm}

180 </package>

```

## 3 Installation

### 3.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[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  $\TeX$  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
```

---

<sup>1</sup><http://ftp.ctan.org/tex-archive/>

**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- $\text{\TeX}$ :

```
tex holtxdoc.dtx
```

**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  $\text{\TeX}$  distribution (te $\text{\TeX}$ , mi $\text{\TeX}$ , ...) relies on file name databases, you must refresh these. For example, te $\text{\TeX}$  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  $\text{\LaTeX}$ .** The `.dtx` chooses its action depending on the format:  
**plain- $\text{\TeX}$ :** Run `docstrip` and extract the files.

**$\text{\LaTeX}$ :** Generate the documentation.

If you insist on using  $\text{\LaTeX}$  for `docstrip` (really, `docstrip` does not need  $\text{\LaTeX}$ ), 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 pdf $\text{\LaTeX}$ :

```
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.

## 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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