

# The holtxdoc package

Heiko Oberdiek  
<oberdiek@uni-freiburg.de>

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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<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 [2009/08/07 v0.12 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 \newcommand*\HistVersion[1]{%
17   \subsection{%
18     \phantomsection
19     \addcontentsline{toc}{subsection}{[#1]}% hash-ok
20     [#1]% hash-ok
21   }%
22   \def\HistLabel##1{%
23     \begingroup
24       \edef\x{[#1]}% hash-ok
25       \let\@currentlabel\x
26       \label{##1}%
27     \endgroup
28   }%
29 }
30 \newenvironment{History}{%
31   \StartHistory
32   \def\Version##1{%
33     \HistVersion{##1}%
34     \itemize
35   }%
36   \let\endVersion\enditemize
37 }{}
```

### 2.3 Formatting macros

```
\UrlFoot
#1: text
#2: url
```

```

38 \newcommand{\URL}[2]{%
39   \begingroup
40     \def\link{\href{#2}}%
41     #1%
42   \endgroup
43   \footnote{Url: \url{#2}}%
44 }

\NameEmail
#1: name
#2: email address

45 \newcommand*\NameEmail[2]{%
46   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
47 }
48 \def\hld@NameEmail#1#2{%
49   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
50 }
51 \def\hld@@NameEmail#1#2{%
52   \ifx\\#1#2\\%
53     \hld@warn{%
54       Command \string\NameEmail\space without name and email%
55     }%
56   \else
57     \ifx\\#1\\%
58       \href{mailto:#2}{\nolinkurl{#2}}%
59     \else
60       #1%
61       \ifx\\#2\\%
62       \else
63         \footnote{%
64           #1's email address: %
65           \href{mailto:#2}{\nolinkurl{#2}}%
66         }%
67       \fi
68     \fi
69   \fi
70 }

71 \newcommand*\Package[1]{\texttt{#1}}
72 \newcommand*\File[1]{\texttt{#1}}
73 \newcommand*\Verb[1]{\texttt{#1}}
74 \newcommand*\CS[1]{\texttt{\expandafter\@gobble\string\#1}}
75 \newcommand*\CTAN[1]{%
76   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
77 }

78 \newcommand*\Newsgroup[1]{%
79   \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
80 }

81 \newcommand*\xpackage[1]{\textsf{#1}}
82 \newcommand*\xmodule[1]{\textsf{#1}}
83 \newcommand*\xclass[1]{\textsf{#1}}
84 \newcommand*\xoption[1]{\textsf{#1}}
85 \newcommand*\xfile[1]{\texttt{#1}}
86 \newcommand*\xext[1]{\texttt{.#1}}
87 \newcommand*\xemail[1]{%
88   \textless\texttt{#1}\textgreater%
89 }
90 \newcommand*\xnewsgroup[1]{%
91   \href{news:#1}{\nolinkurl{#1}}%
92 }

```

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

```

93 \newenvironment{declcs}[1]{%
94   \par
95   \addvspace{4.5ex plus 1ex}%
96   \vskip -\parskip
97   \noindent
98   \hspace{-\leftmargini}%
99   \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
100  \def\*{\unskip\,\texttt{*}}%
101  \begin{tabular}{|l|}%
102    \hline
103    \expandafter\SpecialUsageIndex\csname #1\endcsname
104    \cs{#1}%
105  }{%
106    \\%
107    \hline
108  \end{tabular}%
109  \nobreak
110  \par
111  \nobreak
112  \vspace{2.3ex}%
113  \vskip -\parskip
114  \noindent
115  \ignorespacesafterend
116 }

```

## 2.4 Names

```

117 \providecommand*\eTeX{\mbox{$\varepsilon$-TeX}}
118 \providecommand*\pdfTeX{\pdf\TeX}
119 \providecommand*\pdfLaTeX{\pdf\LaTeX}
120 \providecommand*\LuaTeX{L\textsc{ua}\TeX}
121 \def\@temp#1#2{%
122   \providecommand*{#1}{%
123     \begingroup
124     X%
125     \@ifundefined{rotatebox}{e}{%
126       \lower0.5ex\hbox{%
127         \setbox0=\hbox{E}%
128         \dimen0=\ht0 %
129         \advance\dimen0 by \dp0 %
130         \raise\dimen0\hbox{\rotatebox{180}{\box0}}}%
131     }%
132   }%
133   #2%
134   \endgroup
135 }%
136 }
137 \@tempXeTeX\TeX
138 \@tempXeLaTeX\LaTeX
139 \providecommand*\teTeX{te\TeX}
140 \providecommand*\mikTeX{mik\TeX}
141 \providecommand*\MakeIndex{\textsl{MakeIndex}}
142 \providecommand*\docstrip{\textsf{docstrip}}
143 \providecommand*\plainTeX{\mbox{plain-TeX}}
144 \providecommand*\iniTeX{\mbox{ini-TeX}}
145 \providecommand*\VTeX{V\TeX}

```

## 2.5 Setup

### 2.5.1 Package doc

```

146 \CodelineIndex
147 \EnableCrossrefs
148 \setcounter{IndexColumns}{2}

```

```

149 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
150 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
151 \DoNotIndex{\expandafter,\noexpand,\string}
152 \DoNotIndex{\else,\fi,\or}
153 \DoNotIndex{\relax}

```

### 2.5.2 Page layout

```

154 \addtolength{\textheight}{\headheight}
155 \addtolength{\textheight}{\headsep}
156 \setlength{\headheight}{0pt}
157 \setlength{\headsep}{0pt}

158 \addtolength{\topmargin}{-10mm}
159 \addtolength{\textheight}{20mm}

160 \end{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 T<sub>E</sub>X 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<sub>E</sub>X:

```
tex holtxdoc.dtx
```

---

<sup>1</sup><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.

## 5 Index

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