

# 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   [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 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  $\text{\TeX}$  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
```

**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
```

---

<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.

[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	<b>T</b>	
\multiply .....	32	\teTeX .....	177
<b>N</b>		\TeX .....	177, 178, 181, 182
\NameEmail .....	97, 106	\textgreater .....	140
\NeedsTeXFormat .....	2	\textheight .....	208, 209, 213
\newcommand . 52, 56, 67, 90, 97, 123,		\textless .....	140
124, 125, 126, 127, 130, 133,		\textsf .....	133, 134, 135, 136, 180
134, 135, 136, 137, 138, 139, 142		\textsl .....	179
\newenvironment .....	81, 145	\texttt .....	123, 124,
\Newsgroup .....	130	125, 126, 137, 138, 140, 151, 152	
\nobreak .....	161, 163	\the .....	37, 38, 39, 40
\noindent .....	149, 166	\time .....	31, 32, 33, 40
\nolinkurl ... 110, 117, 128, 131, 143		\topmargin .....	212
<b>P</b>		<b>U</b>	
\Package .....	123	\unskip .....	152
\PackageInfo .....	13	\URL .....	90
\PackageWarningNoLine .....	16	\url .....	95
\par .....	146, 162	<b>V</b>	
\parskip .....	148, 165	\Verb .....	125
\PassOptionsToPackage .....	5	\Version .....	83
\pdf@filemoddate .....	20	\vskip .....	148, 165
\pdfLaTeX .....	171	\vspace .....	164
\pdfTeX .....	170	\VTeX .....	182
\phantomsection .....	69	<b>X</b>	
\plainTeX .....	176	\x .....	24, 35, 36, 42
\protected@edef .....	61, 75	\xclass .....	135
\providecommand .....		\XeLaTeX .....	175
..... 177, 178, 179, 180, 181, 182		\xemail .....	139
\ProvidesPackage .....	3	\XeTeX .....	174
<b>R</b>		\xext .....	138
\raggedright .....	88	\xfile .....	137
\RequirePackage .... 6, 7, 8, 9, 10, 11		\xmodule .....	134
<b>S</b>		\xnewsgroup .....	142
\section .....	53, 192	\xoption .....	136
\setcounter .....	185	\xpackage .....	133
\setlength .....	210, 211	<b>Y</b>	
\space .....	106	\y .....	28, 30
\SpecialUsageIndex .....	155	\year .....	25, 37
\StartHistory .....	52, 82		
\subsection .....	57, 68		