

# 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<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 (HO)]
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\x#1:#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\y#1#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 }

145 \newenvironment{declcs}[1]{%

```

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  $\TeX$  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  $\TeX$ :

```
tex holtxdoc.dtx
```

---

<sup>1</sup>[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 (te $\TeX$ , mi $\TeX$ , ...) relies on file name databases, you must refresh these. For example, te $\TeX$  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  $\LaTeX$ .** The `.dtx` chooses its action depending on the format:

**plain  $\TeX$ :** Run `docstrip` and extract the files.

**$\LaTeX$ :** Generate the documentation.

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

```
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.

[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.





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