

# 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 `LATEX`'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   [2010/04/18 v0.18 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}[2010/04/08]
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       \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       \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 }{}

```

## 2.4 Formatting macros

```

\UrlFoot
#1: text
#2: url
89 \newcommand{\URL}[2]{%
90   \begingroup
91     \def\link{\href{#2}}%
92     #1%
93   \endgroup
94   \footnote{Url: \url{#2}}%

```

```

95 }
\NameEmail
#1: name
#2: email address
96 \newcommand*{\NameEmail}[2]{%
97   \expandafter\hld@NameEmail\expandafter{#2}{#1}%
98 }
99 \def\hld@NameEmail#1#2{%
100   \expandafter\hld@@NameEmail\expandafter{#2}{#1}%
101 }
102 \def\hld@@NameEmail#1#2{%
103   \ifx\\#1#2\\%
104     \hld@warn{%
105       Command \string\NameEmail\space without name and email%
106     }%
107   \else
108     \ifx\\#1\\%
109       \href{mailto:#2}{\nolinkurl{#2}}%
110     \else
111       #1%
112       \ifx\\#2\\%
113       \else
114         \footnote{%
115           #1's email address: %
116           \href{mailto:#2}{\nolinkurl{#2}}%
117         }%
118       \fi
119     \fi
120   \fi
121 }

122 \newcommand*{\Package}[1]{\texttt{#1}}
123 \newcommand*{\File}[1]{\texttt{#1}}
124 \newcommand*{\Verb}[1]{\texttt{#1}}
125 \newcommand*{\CS}[1]{\texttt{\expandafter\@gobble\string\#1}}

126 \newcommand*{\CTAN}[1]{%
127   \href{ftp://ftp.ctan.org/tex-archive/#1}{\nolinkurl{CTAN:#1}}%
128 }

129 \newcommand*{\Newsgroup}[1]{%
130   \href{http://groups.google.com/group/#1/topics}{\nolinkurl{news:#1}}%
131 }

132 \newcommand*{\xpackage}[1]{\textsf{#1}}
133 \newcommand*{\xmodule}[1]{\textsf{#1}}
134 \newcommand*{\xclass}[1]{\textsf{#1}}
135 \newcommand*{\xoption}[1]{\textsf{#1}}
136 \newcommand*{\xfile}[1]{\texttt{#1}}
137 \newcommand*{\xext}[1]{\texttt{.#1}}
138 \newcommand*{\xemail}[1]{%
139   \textless\texttt{#1}\textgreater%
140 }
141 \newcommand*{\xnewsgroup}[1]{%
142   \href{news:#1}{\nolinkurl{#1}}%
143 }

```

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

```

144 \newenvironment{declcs}[1]{%
145   \par
146   \addvspace{4.5ex plus 1ex}%
147   \vskip -\parskip
148   \noindent

```

```

149 \hspace{-\leftmargini}%
150 \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}}%
151 \def\*{\unskip\,\texttt{*}}%
152 \begin{tabular}{|l|}%
153 \hline
154 \expandafter\SpecialUsageIndex\csname #1\endcsname
155 \cs{#1}%
156 }{%
157 \\\%
158 \hline
159 \end{tabular}%
160 \nobreak
161 \par
162 \nobreak
163 \vspace{2.3ex}%
164 \vskip -\parskip
165 \noindent
166 \ignorespacesafterend
167 }

```

## 2.5 Names

```

168 \def\TeX{\hologo{eTeX}}
169 \def\pdfTeX{\hologo{pdfTeX}}
170 \def\pdfLaTeX{\hologo{pdfLaTeX}}
171 \def\LuaTeX{\hologo{LuaTeX}}
172 \def\LuaLaTeX{\hologo{LuaLaTeX}}
173 \def\XeTeX{\hologo{XeTeX}}
174 \def\XeLaTeX{\hologo{XeLaTeX}}
175 \def\plainTeX{\hologo{plainTeX}}
176 \providecommand*{\teTeX}{teTeX}
177 \providecommand*{\miktex}{miktex}
178 \providecommand*{\MakeIndex}{\textsl{MakeIndex}}
179 \providecommand*{\docstrip}{\textsf{docstrip}}
180 \providecommand*{\iniTeX}{\mbox{ini-TeX}}
181 \providecommand*{\VTeX}{VTeX}

```

## 2.6 Setup

### 2.6.1 Package doc

```

182 \CodelineIndex
183 \EnableCrossrefs
184 \setcounter{IndexColumns}{2}

185 \DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
186 \DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
187 \DoNotIndex{\expandafter,\noexpand,\string}
188 \DoNotIndex{\else,\fi,\or}
189 \DoNotIndex{\relax}

190 \IndexPrologue{%
191 \section*{Index}%
192 \markboth{Index}{Index}%
193 Numbers written in italic refer to the page %
194 where the corresponding entry is described; %
195 numbers underlined refer to the %
196 \ifcodeline@index
197 code line of the %
198 \fi
199 definition; plain numbers refer to the %
200 \ifcodeline@index
201 code lines %
202 \else
203 pages %

```

```

204 \fi
205 where the entry is used.%
206 }

```

## 2.6.2 Page layout

```

207 \addtolength{\textheight}{\headheight}
208 \addtolength{\textheight}{\headsep}
209 \setlength{\headheight}{0pt}
210 \setlength{\headsep}{0pt}

211 \addtolength{\topmargin}{-10mm}
212 \addtolength{\textheight}{20mm}

213 \</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.

[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.



## 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; plain numbers refer to the code lines where the entry is used.

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