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 [2012/03/21 v0.24 Private additional ltxdoc support (HD)]

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}[2011/11/22]

11 \RequirePackage{ifluatex}[2010/03/01]

12 \RequirePackage{array}

2.1 Help macros

13 \def\hld@info#1{%

14 \PackageInfo{holtxdoc}{#1\@gobble}{%

15 }%

16 \def\hld@warn#1{%

17 \PackageWarningNoLine{holtxdoc}{#1}{%

18 }

2.2 Font setup for Lua\LaTeX

19 ifluatex

20 \RequirePackage{fontspec}[2011/09/18]{%

21 \RequirePackage{unicode-math}[2011/09/19]{%

22 \setmathfont{lmmath-regular.otf}{%

23 \fi

2.3 Date

24 \ifx\undefined{pdf@filemoddate}{%

25 }%

26 \edef\hld@temp{pdf@filemoddate{\jobname.dtx}}%

27 \ifx\hld@temp\empty
\makeatletter
\def\x#1:#2#3#4#5#6#7#8#9{% 
  \year=#2#3#4#5\relax 
  \month=#6#7\relax 
  \day=#8#9\relax 
  \y} 
\def\y#1#2#3#4#5\@nil{% 
  \time=#1#2\relax 
  \multiply\time by 60\relax 
  \advance\time#3#4\relax 
} 
\expandafter\x\hld@temp\@nil 
\edef\x{\endgroup} 
\year={\the\year} 
\month={\the\month} 
\day={\the\day} 
\time={\the\time} 
\fi

2.4 History

\providecommand*{\historyname}{History} 
\newcommand*{\StartHistory}{% 
  \section{\historyname} 
} 
@ifpackagelater{hyperref}{2009/11/27}{% 
  \newcommand*{\HistVersion}[1]{% 
    \subsection*{[#1]}% hash-ok 
    \addcontentsline{toc}{subsection}{[#1]}% hash-ok 
    \def\HistLabel##1{% 
      \begingroup 
      \protected@edef\@currentlabel{[#1]}% hash-ok 
      \label{##1}% hash-ok 
      \endgroup 
    }% 
  }% 
} { 
  \newcommand*{\HistVersion}[1]{% 
    \subsection*{\phantomsection\addcontentsline{toc}{subsection}{[#1]}% hash-ok [#1]% hash-ok 
    \def\HistLabel##1{% 
      \begingroup 
      \protected@edef\@currentlabel{[#1]}% hash-ok 
      \label{##1}% hash-ok 
      \endgroup 
    }% 
  }% 
}
\newenvironment{History}{% 
\StartHistory
\def\Version##1{% 
\HistVersion{##1}% 
\@ifnextchar\end{% 
\let\endVersion\relax 
}\{% 
\let\endVersion\enditemize 
\itemize 
\}% 
\}% 
\raggedright 
}{%}

2.5 Formatting macros

\UrlFoot
#1: text
#2: url
\newcommand\URL[2]{% 
\begingroup
\def\link{\href{#2}}% 
#1%
\endgroup
\footnote{Url: \url{#2}}%
}

\NameEmail
#1: name
#2: email address
\newcommand*\NameEmail[2]{% 
\expandafter\hld@NameEmail\expandafter{#2}{#1}%
}
\def\hld@NameEmail#1#2{% 
\expandafter\hld@@NameEmail\expandafter{#2}{#1}%
}
\def\hld@@NameEmail#1#2{% 
\ifx\%\string\#1\%\%
\hld@warn{\string\NameEmail\space without name and email%}
\else
\ifx\%\string\#1\%
\href{mailto:#2}{\url{#2}}%
\else
#1%
\ifx\%\string\#2\%
\else
\footnote{#1's email address: %
\href{mailto:#2}{\url{#2}}%}
\fi
\fi
\fi
\fi
\else
\ifx\#1\%
\href{mailto:#2}{\nolinkurl{#2}}%
\else
#1%
\ifx\#2\%
\else
\footnote{#2's email address: %
\href{mailto:#2}{\nolinkurl{#2}}%}
\fi
\fi
\fi
\fi
}
\newcommand*\Package[1]{\texttt{#1}}
\newcommand*\File[1]{\texttt{#1}}
\newcommand*\Verb[1]{\texttt{#1}}
\newcommand*\CS[1]{\texttt{\expandafter\@gobble\string\#1}}
The following environment `declcs` is derived from environment `decl` of ltxguide.cls:

```latex
\newenvironment{declcs}[1]{% 
  \par 
  \addvspace{4.5ex plus 1ex}% 
  \vskip -\parskip 
  \noindent 
  \hspace{-\leftmargini} 
  \def\M##1{\texttt{\{}\meta{##1}\texttt{\}}} 
  \def\*{\unskip\,\texttt{*}} 
  \begin{tabular}{|l|} 
    \hline 
    \expandafter\SpecialUsageIndex\csname #1\endcsname 
    \cs{#1} 
    \end{tabular} 
  \nobreak 
  \par 
  \nobreak 
  \vspace{2.3ex} 
  \vskip -\parskip 
  \noindent 
  \ignorespacesafterend
}{% 
  \} 

2.6 Names

\def\eTeX{\hologo{eTeX}}
\def\pdfTeX{\hologo{pdfTeX}}
\def\pdfLaTeX{\hologo{pdfLaTeX}}
\def\LuaTeX{\hologo{LuaTeX}}
\def\LuaLaTeX{\hologo{LuaLaTeX}}
\def\XeTeX{\hologo{XeTeX}}
\def\XeLaTeX{\hologo{XeLaTeX}}
\def\plainTeX{\hologo{plainTeX}}
2.7 Setup

2.7.1 Package doc

\CodelineIndex
\EnableCrossrefs
\setcounter{IndexColumns}{2}
\DoNotIndex{\begingroup,\endgroup,\bgroup,\egroup}
\DoNotIndex{\def,\edef,\xdef,\global,\long,\let}
\DoNotIndex{\expandafter,\noexpand,\string}
\DoNotIndex{\else,\fi,\or}
\DoNotIndex{\relax}
\IndexPrologue{\section*{Index}}
\markboth{Index}{Index}

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the \ifcodeline@index code line of the \fi definition; plain numbers refer to the \ifcodeline@index code lines \else pages \fi where the entry is used.}

2.7.2 Page layout

\addtolength{\textheight}{\headheight}
\addtolength{\textheight}{\headsep}
\setlength{\headheight}{0pt}
\setlength{\headsep}{0pt}
\addtolength{\topmargin}{-10mm}
\addtolength{\textheight}{20mm}

3 Installation

3.1 Download

Package. This package is available on CTAN:\footnote{ftp://ftp.ctan.org/tex-archive/}

CTAN:macros/latex/contrib/oberdiek/holtxdoc.dtx \hspace{1em} The source file.

CTAN:macros/latex/contrib/oberdiek/holtxdoc.pdf \hspace{1em} 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
```

**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 (teTeX, miktex, ...) relies on file name databases, you must refresh these. For example, teTeX 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:

```
l\textbackslash et\textbackslash install=y\textbackslash 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 \texttt{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 pdflatex:

\begin{verbatim}
pdflatex holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
makeindex -s gind.ist holtxdoc.idx
pdflatex holtxdoc.dtx
\end{verbatim}

4 Catalogue

The following XML file can be used as source for the \TeX\ Catalogue. The elements \texttt{caption} and \texttt{description} are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is \texttt{holtxdoc.xml}.

\begin{verbatim}
<?xml version='1.0' encoding='us-ascii'?>
<!DOCTYPE entry SYSTEM 'catalogue.dtd'>
<entry datestamp='$Date$' modifier='$Author$' id='holtxdoc'>
  <name>holtxdoc</name>
  <caption>Documentation macros for oberdiek bundle, etc.</caption>
  <authorref id='auth:oberdiek'/>
  <copyright owner='Heiko Oberdiek' year='1999-2012'/>
  <license type='lppl1.3'/>
  <version number='0.24'/>
  <description>
    These are personal macros, which are not necessarily useful to
    other authors (they are provided as part off the source of others
    of the author’s packages). Macros that may be of use to other
    authors are available separately, in package
    \texttt{hypdoc}.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc}/xref>.\texttt{hypdoc/}
  </description>
  <documentation details='Package documentation'
    href='ctan:/macros/latex/contrib/oberdiek/holtxdoc.pdf'/>
  <ctan file='true' path='/macros/latex/contrib/oberdiek/holtxdoc.dtx'/>
  <miktex location='oberdiek'/>
  <texlive location='oberdiek'/>
  <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
</entry>
</catalogue>

5 History

[1999/06/26 v0.3]
  • ...

[2000/08/14 v0.4]
  • ...

[2001/08/27 v0.5]
  • ...
• Major change: most is put into a new package hypdoc.

• \TeX{} and \LaTeX{} added.

• \LaTeX{} added.

• \initex{} added.

• \TeX{} and \LaTeX{} are made robust.

• \LaTeX{} changed according to Hans Hagen’s definition in the luatex mailing list.

• Use date and time of .dtx file.

• Option pdfencoding=auto added for package hyperref.

• Package hologo added.

• Standard index prologue replaced by corrected prologue.

• Requested date of package hologo updated.
6 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.

Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>163</td>
</tr>
<tr>
<td>_</td>
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<td>164</td>
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</table>