The *uri* package

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Abstract

This package allows to automatically hyperlink uris of type arXiv, ASIN, DOI, HDL, NBN, OCLC, OID, PubMed, TINY, TINY with preview, and WebCite in such a way that they are resolved to an address understood by web browsers without native support or add-ons for such types of uri and provides commands \citeurl, \mailto, \ukoeln, and \uref.

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Save per page about 200 ml water, 2 g CO$_2$ and 2 g wood: Therefore please print only if this is really necessary.

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1 Introduction

Diverse types of URIs exists. While every web browser should know how to handle an uri like \url{https://www.ctan.org/}, there are probably quite a few web browsers which cannot handle e.g. \url{arXiv:math/9201303} (just test it by clicking the hyperlink). There are four types of solution:

1. Change the programme code of the web browser to recognise the uri.
2. Use/write a plug-in for the browser to resolve the uri.
3. Use only the full, expanded uri. Then they can be reliable accessed by everybody, but those uris usually become quite long, which is not really nice (and line breaks have their own problems).
4. (a) Write the short uri (\url{arXiv:math/9201303}), but link to the long, expanded one. This combines reliability and aesthetics, but can be cumbersome to write, especially when a lot of those addresses are used.
   (b) Do as described at (a), but automatically. This is the way this package can be used.

2 Usage

Just load the package placing

\usepackage[<options>]{uri}

in the preamble of your \LaTeX\ source file (preferably after calling the url and hyperref package). For the different types of uri and available options see the documented code below.

3 Alternatives

There are similar packages, which do (or do not) similar things. Here is a list of some possible alternatives:

\texttt{aurl}

- The \texttt{aurl} package \texttt{“\texttt{a}xtends the \texttt{hyperref} package with a mechanism for hyperlinked URLs abbreviated with prefixes”, i.e. similar to this package here.}

\texttt{doi}

- The \texttt{doi} package \texttt{“contains a user-level command \texttt{\doi{}}}, which takes a doi number, and creates a hyperlink from it. The format of the doi can be controlled by redefining the \texttt{\doitext} command” (from the doi package \texttt{ReadMe}). It does not handle other types of uris, naturally.

\texttt{doipubmed}

- The \texttt{doipubmed} package handles DOI as well as PubMed uris.

(You programmed or found another alternative, which is available at \url{https://www.CTAN.org}? OK, send an e-mail to me with the name, location at CTAN, and a short notice, and I will probably include it in the list above.)

About how to get those packages, please see subsection 6.1.
4 Example

\documentclass[british]{article}[2014/09/29] v1.4h
\PassOptionsToPackage{hyphens}{url}\url is loaded internally by hyperref
\usepackage{hyperref}[2011/02/07] v6.82b
\hypersetup{
extension=pdf,%
plainpages=false,%
hyperindex=false,%
pdflang={en},%
pdftitle={uri package example},%
pdfauthor={Hans-Martin Muench},%
pdfssubject={Example for the uri package},%
pdfkeywords={LaTeX, uri, Hans-Martin Muench},%
pdfview=Fit,%
pdfstartview=Fit,%
pdfpagelayout=SinglePage,%
bookmarksopen=false%
}
\usepackage{uri}[2018/09/06] v2.0b
\RequirePackage{amsmath}
\RequirePackage{relsize}
\gdef\doialternative{%
  \hbox{\text{\fontfamily{lmss}\selectfont{\smaller{\ DO\hspace{-0.025em}\raisebox{0.0cm}{}}}}}} \allowbreak%
}\renewcommand*{\thesubsection}{\arabic{subsection}}
\listfiles
\begin{document}
This example demonstrates the use of package\newline
\textsf{uri}, v2.0b as of 2018/09/06 (HMM).\newline
No options were given, thereby the default options were used.\newline
For more details please see the documentation!

\section*{Example for uri}

\texttt{uri} package allows to hyperlink (with the\newline\texttt{hyperref} package of \textsc{Heiko Ober-diek}) uris of type\newline
\begin{itemize}
  \item \texttt{arXiv} (\url{https://www.arXiv.org/}), e.g. \texttt{arxiv(math/9201303)}.\newline
  \item \texttt{ASIN} \url{https://www.amazon.co.uk/gp/help/customer/display.html/277-3416785-8259466?ie=UTF8&nodeId=898182}), \newline
  \texttt{tinyurl(y7ju25in)} \url{http://www.shortdoi.org/} %\newline
  \texttt{DOI} (\url{https://www.doi.org/index.html}), e.g. \texttt{doi(10.1000/182) or\linebreak
  \texttt{doi(10.1111/coin.12165)}. For DOIs also \url{http://www.shortdoi.org/} %\newline
  should be mentioned, which provides \texttt{doi(10/b8xfbg)} as synonym for that long doi %\newline
  given in \texttt{relaxation} \url{http://www.shortdoi.org/} %\newline
  \texttt{HDL} (\url{https://www.handle.net/index.html}), e.g. \texttt{hdl(2128/2486)}.\newline
  \texttt{NBN} \url{http://nbn-resolving.de/urn:nbn:de:1111-200606309}),\newline
  \url{http://nbn-resolving.de/urn:nbn:de:bsz:mit1-opus-3145}.\newline
  \texttt{OCLC} (the global library cooperative %\newline\href{https://www.oclc.org/en/about.html}{OCLC} maintains %
\item[--] OID (\url{http://www.oid-info.com/#oid}), e.g. \oid{2.16.840}.
\item[--] PubMed (\url{https://www.ncbi.nlm.nih.gov/pubmed/}), e.g. \pubmed{24925405}.
\item[--] TINY (\url{https://tinyurl.com/}), e.g. \tinyuri{MST19-105603} (uses \verb|\tinyuri| instead of \verb|\tiny|, because that command already existed).
\item[--] TINY with preview (\url{https://preview.tinyurl.com/}), e.g. \tinypuri{MST19-105603}.
\item[--] WebCite (\url{https://www.webcitation.org/}), e.g. \wc{71dxj173I}, which is short for \wc{query?url=http%3A%2F%2Fctan.org&date=2018-08-13}.
\item[--] XMPP (\url{https://xmpp.org/about/}) changed, for example \verb|URN:XMPP:time| was moved from \url{https://xmpp.org/protocols/urn:xmpp:time/} to \url{https://xmpp.org/extensions/xep-0202.html}. Therefore \verb|\xmpp| is no longer provided by this package. For backward compatibility \verb|\xmpp| gives an error message and links to \url{https://xmpp.org/extensions/}.

\subsection{Pre/post text, \texttt{\textbackslash urisetup}}
\begin{verbatim}
Text before (e.g. DOI:) and after (well, no example) the uri to be displayed can be adapted by the package options. After loading the package it is possible (even somewhere within the document’s body) to change these \hbox{\ldots \verb|\pre|} (and \hbox{\ldots \verb|\post|}) texts by \verb|\urisetup|, e.g. \newline
\end{verbatim}
This command can also be used in the preamble to define pre/post texts which otherwise are not understood by \LaTeX. -- Compare \arxiv{0905.0105v2} to \arxiv{0905.0105v2} or \doi{10.1000/182} to \doi{10.1000/182}.

Additionally some commands are provided by the uri package:

\item[--] \verb|\citeurl| similar to the command of the \textsf{doipubmed} package, \verb|\citeurl{https://ctan.org/pkg/doipubmed}|.
\item[--] \verb|\mailto| for e-mail addresses (optionally with e-mail subject), e.g. \verb|\mailto{spam@example.org}| or \verb|\mailto{Some subject of the e-mail}{spam@example.org}|.
\item[--] \verb|\ukoeln| for short University of Cologne (Universität zu Köln; U~Koeln; Germany; \url{https://www.portal.uni-koeln.de/8911.html?&L=1}) addresses, e.g. \verb|\ukoeln{PDGKL}|.
\item[--] \verb|\uref| takes two arguments, the first gives the target of the hyperlink, e.g. information about the \verb|\uref{https://ctan.org/pkg/uri}{uri package}|, similar to \verb|\href|. When \textsf{hyperref} was not loaded, \verb|\uref{first argument}{second argument}| defaults to \verb|\url{second argument}|.
127 \end{itemize}

128

129 \subsection{Stress test} \label{relaxation}

130 Even \verb|\doi{1.2/3-.(5):<>;%A\8!$~&{}#X}|

131 would work (if that DOI would exist; same for the other types of uri):

132 \doi{1.2/3-.(5):<>;%A\8!$~&{}#X}

133 } (In the error message at doi.org the \verb|#X| is not included,

134 because it is interpreted as \textquotedblleft anchor X\textquotedblright{} at

135 page \verb|1.2/3-.(5):<>;%A\8!$~&{}|, which already is not found.)

136 Adding \verb|opening bracket percent-sign line break closing bracket| makes programs happy, which check for bracket pairs and take the

137 first percent sign as the start of a comment and therefore miss

138 the closing bracket (but therefore also the following opening one).

139 And this real DOI works:

140 \doi{10.1002/1097-4636(200108)56:2<282::AID-JBM1096>3.0.CO;2-5}

141 (short: \doi{10/b8xfbg}, see DOI in %

142 \hyperref[uritypes]{\ref*{uritypes} Supported types of uri}).

143 \pagebreak

144 \subsection{Name-to-Thing resolver}

145 It is also possible to resolve a lot of identifiers by

146 the Name-to-Thing resolver by just appending the identifier to

147 \url{https://n2t.net/}, e.,g. \url%

148 \url{https://n2t.net/arXiv:math/9201303}, \url%

149 \url{https://n2t.net/ASIN:0201134489}, \url%

150 \url{https://n2t.net/DOI:10.1111/coin.12165}, \url%

151 \url{https://n2t.net/HDL:2128/2486}, \url%

152 \url{https://n2t.net/urn:nbn:de:bsz:mit1-opus-3145}, \url%

153 \url{https://n2t.net/OCLC:935889548}, \url%

154 \url{https://n2t.net/PubMed:24926405}, and also \url%
And for resolving OIDs like OID:2.16.840 instead of http://www.oid-info.com/cgi-bin/display?oid=2.16.840&submit=Display&action=display, it is possible to use https://identifiers.org/OID:2.16.840.

Disadvantages: It is longer and requires n2t.net to work (or identifiers.org for OID).

Advantage: Anybody reading the printed document can just enter the url as given into their browser without thinking about how to resolve that type of uri.

\subsection{Disclaimer for web links}
The author is not responsible for any contents referred to in this work unless if having full knowledge of illegal contents. If any damage occurs by the use of information presented there, only the author of the respective pages might be liable, not the one who has referred to these pages.
\end{document}
5 The implementation

We start off by checking that we are loading into \LaTeX{} and announcing the name and version of this package.

\begin{verbatim}
(*package*)
\NeedsTeXFormat{LaTeX2e}[2015/01/01]
\ProvidesPackage{uri}[2018/09/06 v2.0b
   Hyperlinks URIs like DOI, HDL, NBN, PubMed (HMM)]
\end{verbatim}

A short description of the \texttt{uri} package:

\begin{verbatim}
%% Allows to automatically hyperlink uris of types
%% arXiv, ASIN, DOI, HDL, NBN, OCLC, OID, PubMed, TINY, TINY with preview,
%% and WebCite
%% in such a way that they are resolved to an address understood by browsers
%% independent of native support or add-ons for such types of uri
%% and provides commands \citeurl, \mailto, \ukoeln, and \uref.
\end{verbatim}

For the handling of the options we need the \texttt{kvoptions} package of HEIKO OBERDIEK (see subsection 6.1):

\begin{verbatim}
\RequirePackage{kvoptions}[2011/06/30]% v3.11
\end{verbatim}

We need the \texttt{url} package of DONALD ARSENEAU and ROBIN FAIRBAIRNS (see subsection 6.1):

\begin{verbatim}
\RequirePackage[url]{2013/09/16}% v3.4
\end{verbatim}

When spaces shall be kept, \texttt{\usepackage[obeyspaces]{url}} should be used in the document (and \texttt{\ } in the options), and for using special characters even \texttt{\usepackage[obeyspaces,T1]{url}} could be a good idea. - When the \texttt{hyperref} package has been loaded, we hyperlink the uris, otherwise we do not do this.

So, if you want hyperlinks, load \texttt{uri} after \texttt{hyperref}, otherwise before (or no \texttt{hyperref} at all, of course).

For each supported uri type there are two options, \texttt{...pre} and \texttt{...post}, e.g. \texttt{doipre} and \texttt{doipost}. For example the option \texttt{doipre={DOI: \}} results in “DOI: ” (without the quotation marks, of course) to be written before the DOIs.

(There are more brackets and braces then necessary here, but better save than sorry, i.e. make it robust.)
```
\SetupKeyvalOptions{family = uri, prefix = uri0}
\DeclareStringOption[arXiv:]{arxivpre}[arXiv:]
\DeclareStringOption[]{}{arxivpost}[]
\DeclareStringOption[ASIN:]{asinpre}[ASIN:]
\DeclareStringOption[]{}{asinpist}[]
\DeclareStringOption[DOI:]{doipre}[DOI:]
\DeclareStringOption[]{}{doipost}[]
\DeclareStringOption[HDL:]{hdlpre}[HDL:]
\DeclareStringOption[]{}{hdpst}[]
\DeclareStringOption[]{}{nbnpre}[]
\DeclareStringOption[]{}{nbnpost}[]
\DeclareStringOption[OCLC:]{oclpri}[OCLC:]
\DeclareStringOption[]{}{oclpost}[]
\DeclareStringOption[URN:OID:]{oidpre}[URN:OID:]
\DeclareStringOption[]{}{oidpost}[]
\DeclareStringOption[PubMed:]{pubmedpre}[PubMed:]
\DeclareStringOption[]{}{pubmedpost}[]
```

The commands are \texttt{tinyuri} and \texttt{tinypuri}, thus the according options are \texttt{tinyuripre}, \texttt{tinyuripre}, \texttt{tinyuripost}, \texttt{tinypuripost}, and \texttt{tinypuripre}. In older versions they were \texttt{tinypre}, \texttt{tinypre}, \texttt{tinypost}, \texttt{tinyppost}, and \texttt{tinyppre}. For backward compatibility we need to define and handle them:

```
def\uri@tiny@pre@default{TINY:}
\def\uri@tiny@post@default{}
```
\def\uri@tinyp@pre@default{TINY:P:}
\def\uri@tinyp@post@default{}

\DeclareStringOption[\uri@tinyp@pre@default]{tinypre}[\uri@tinyp@pre@default]
\DeclareStringOption[\uri@tinyp@post@default]{tinypost}[\uri@tinyp@post@default]

\DeclareStringOption[\uri@tinyp@pre@default]{tinyppre}[\uri@tinyp@pre@default]
\DeclareStringOption[\uri@tinyp@post@default]{tinyppost}[\uri@tinyp@post@default]

\DeclareStringOption[\uri@tinyp@pre@default]{tinyuripre}[\uri@tinyp@pre@default]
\DeclareStringOption[\uri@tinyp@post@default]{tinyuripost}[\uri@tinyp@post@default]

\DeclareStringOption[WC:]{wcpre}[WC:]
\DeclareStringOption[]{wcpost}[

\DeclareStringOption[URN:XMPP:]{xmpppre}[]
\DeclareStringOption[]{xmpppost}[]

\DeclareStringOption[<]{citeurlpre}[<]
\DeclareStringOption[>]{citeurlpost}>]

\DeclareStringOption[mailto:]{mailtopre}[mailto:]
\DeclareStringOption[]{mailtopost}[

\DeclareStringOption[http://UKoeln.de/]{ukoelnpre}[http://UKoeln.de/]
\DeclareStringOption[]{ukoelnpost}[]

\ProcessKeyvalOptions*
To set options with more complicated/problematic content, \texttt{\urisetup} is needed. With this the user can set the according option(s) after loading this package (please see the example file).

\begin{verbatim}
def\urisetup{\kvsetkeys{uri}}

Handling of deprecated options \texttt{tinypre}, \texttt{tinypre}, \texttt{tinypost}, \texttt{tinyppost}, and \texttt{tinyppre}:
\end{verbatim}
\let\uri@tinyuripost\uri@tinypost\%
\else\%
\PackageError{uri}{Conflicting options tinypost and tinyuripost used}\
Option tinypost deprecated.\MessageBreak%
Please use ONLY option tinyuripost instead!\MessageBreak%
Ignoring option tinypost now.\MessageBreak%
}\%
\fi\%
\fi\%
\def\uri@wrapper{\uri@tinyp@pre@default}
\ifx\uri@tinyppre\uri@wrapper\%
\else\%
\ifx\uri@tinypuripre\uri@wrapper\%
\PackageWarning{uri}{Option tinyppre deprecated.\MessageBreak%
Please use tinypuripre instead!\MessageBreak%
Transfering content of option tinyppre to tinypuripre now;\MessageBreak%
}\%
\let\uri@tinypuripre\uri@tinyppre\%
\else\%
\PackageError{uri}{Conflicting options tinyppre and tinypuripre used}\
Option tinyppre deprecated.\MessageBreak%
Please use ONLY option tinypuripre instead!\MessageBreak%
Ignoring option tinyppre now.\MessageBreak%
}\%
\fi\%
\fi\%
\def\uri@wrapper{\uri@tinyp@post@default}
\ifx\uri@tinyppost\uri@wrapper\%
\else\%
\ifx\uri@tinypuripost\uri@wrapper\%
\PackageWarning{uri}{Option tinyppre deprecated.\MessageBreak%
Please use tinypuripre instead!\MessageBreak%
Transfering content of option tinyppre to tinypuripre now;\MessageBreak%
}\%
\let\uri@tinypuripost\uri@tinyppost\%
\else\%
\PackageError{uri}{Conflicting options tinyppre and tinypuripre used}\
Option tinyppre deprecated.\MessageBreak%
Please use ONLY option tinypuripre instead!\MessageBreak%
Ignoring option tinyppre now.\MessageBreak%
}\%
\fi\%
\fi\%
\def\uri@wrapper{\uri@tinyp@post@default}
\ifx\uri@tinyppost\uri@wrapper\%
\else\%
\ifx\uri@tinypuripost\uri@wrapper\%
\PackageWarning{uri}{Option tinyppre deprecated.\MessageBreak%
Please use tinypuripre instead!\MessageBreak%
Transfering content of option tinyppre to tinypuripre now;\MessageBreak%
}\%
\let\uri@tinypuripost\uri@tinyppost\%
\else\%
\PackageError{uri}{Conflicting options tinyppre and tinypuripre used}\
Option tinyppre deprecated.\MessageBreak%
Please use ONLY option tinypuripre instead!\MessageBreak%
Ignoring option tinyppre now.\MessageBreak%
}\%
\fi\%
\fi\%
We disable the deprecated options. If not disabled, it would be possible to use \urisetup with them without error message, but this would not have any effect, because only the newer options tinyuripre, tinyuripre, tinyuripost, tinypuripost, and tinypuripre are regarded.

\DisableKeyvalOption[action={error},package=uri]{uri}{tinypre}
\DisableKeyvalOption[action={error},package=uri]{uri}{tinypost}
\DisableKeyvalOption[action={error},package=uri]{uri}{tinyppre}
\DisableKeyvalOption[action={error},package=uri]{uri}{tinyppost}

Now we define the commands, using \tinyuri instead of \tiny, because that command already existed before (and accordingly \tinypuri, even if \tinyp did not exist).

\ifpackageloaded{hyperref}{%
\DeclareRobustCommand{\uref}[2]{\protect\href{#1}{\protect\nolinkurl{#2}}}%
\% arXiv
\DeclareUrlCommand{arxiv}{\def\UrlLeft##1\UrlRight{\href{https://arxiv.org/abs/##1}{\uri@arxivpre##1\uri@arxivpost}}}%
\% ASIN
\DeclareUrlCommand{asin}{\def\UrlLeft##1\UrlRight{\href{https://amzn.com/##1}{\uri@asinp@##1\uri@asip@post}}}%
\% DOI
}
\mailto code provided by Frank Mittelbach (thanks!), making possible \mailto{person@example.org} as well as \mailto[Some subject of the e-mail]{person@example.org}, i.e. mailto:person@example.org?subject=Some subject of the e-mail.
Note that you cannot create those addresses by this way, only link to existing ones. That was already everything which was necessary. (Once you get the syntax for the \DeclareUrlCommand right, it is straight forward. Emphasis is at “Once”...)
it is checked whether any of the aurl, doi, or doipubmed packages are loaded.

\AtBeginDocument{\%
\@ifpackageloaded{aurl}\%
\PackageWarning{uri}{Packages uri AND aurl detected.\MessageBreak%
Results might depend on order of loading;\MessageBreak}%
){\relax}\%
\@ifpackageloaded{doi}\%
\PackageWarning{uri}{Packages uri AND doi detected.\MessageBreak%
Results will depend on order of loading!\MessageBreak%
Consider using only one package.\MessageBreak%
The uri package alone should be sufficient;\MessageBreak}%
){\relax}\%
\@ifpackageloaded{doipubmed}\%
\PackageWarning{uri}{Packages uri AND doipubmed detected.\MessageBreak%
Results will depend on order of loading!\MessageBreak%
Consider using only one package.\MessageBreak%
The uri package alone should be sufficient;\MessageBreak}%
){\relax}\%
}%

}
6 Installation

6.1 Downloads

Everything is available on CTAN: https://www.ctan.org/pkg/ but may need additional packages themselves.

For unpacking the \texttt{uri.dtx} file and constructing the documentation it is required (newer versions should be OK):

- \TeX\ Format \LaTeX\ 2ε, 2016/03/31, v2ε: https://www.CTAN.org
- document class \texttt{ltxdoc}, 2015/03/26, v2.0w, https://www.ctan.org/pkg/ltxdoc
- package \texttt{pdflscape}, 2008/08/11, v0.10, https://www.ctan.org/pkg/pdflscape
- package \texttt{holtxdoc}, 2012/03/21, v0.24, https://www.ctan.org/pkg/holtxdoc

The \texttt{uri.sty} for \LaTeX\ 2ε (i.e. all documents using the \texttt{uri} package) requires:

- \TeX\ Format \LaTeX\ 2ε, 2016/03/31, v2ε: https://www.CTAN.org

The \texttt{uri-example.tex} requires the same files as all documents using the \texttt{uri} package, especially:

- package \texttt{hyperref}, 2012/11/06, v6.83m, https://www.ctan.org/pkg/hyperref
  (not generally necessary but probably used most often)
  (Well, it is the example file for this package, and because you are reading the documentation for the \texttt{uri} package, it can be assumed that you already have some version of it – is it the current one?)

and additionally (for demonstration purposes)

- package \texttt{amsmath}, 2016/03/10, v2.15b, https://www.ctan.org/pkg/amsmath

As possible alternatives to \texttt{uri} in section 3 there are listed

- package \texttt{aurl}, 2016/08/12, v?.?, https://www.ctan.org/pkg/aurl

All packages of \texttt{Heiko Oberdiek}’s bundle ‘oberdiek’ (especially \texttt{holtxdoc} and \texttt{kvoptions}) are also available in a TDS compliant ZIP archive: http://mirror.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip.

It is probably best to download and use this, because the packages in there should be both recent and compatible.

A list of my packages can be found at https://www.ctan.org/author/muench-hm.
6.2 Package, unpacking TDS

**Package.** This package is available on https://www.CTAN.org.


http://mirror.ctan.org/macros/latex/contrib/uri/uri-example.pdf The compiled example file, as it should look like.


There is also a uri.tds.zip available:

http://mirror.ctan.org/install/macros/latex/contrib/uri.tds.zip Everything in TDS compliant, compiled format.

which additionally contains

uri.ins The installation file.
uri.drv The driver to generate the documentation.
uri.sty The .sty file.
uri-example.tex The example file.

For required other packages, see the preceding subsection.

**Unpacking.** The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain TeX:

```
tex uri.dtx
```

About generating the documentation see paragraph 6.4 below.

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
uri.sty → tex/latex/uri.sty
uri.pdf → doc/latex/uri.pdf
uri-example.tex → doc/latex/uri-example.tex
uri-example.pdf → doc/latex/uri-example.pdf
uri.dtx → source/latex/uri.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.

6.3 Refresh file name databases

If your TeX distribution (TeX Live, miktex, tectex, ...) relies on file name databases, you must refresh these. For example, tectex users run texhash or mktexlsr.
6.4 Some details for the interested

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:

\begin{verbatim}
 latex \let\install=y\input{uri.dtx}
\end{verbatim}

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 a configuration file ltxdoc.cfg. For instance, put the following line into this file, if you want to have A4 as paper format:

\begin{verbatim}
 \PassOptionsToClass{a4paper}{article}
\end{verbatim}

An example follows how to generate the documentation with pdf\LaTeX:

\begin{verbatim}
 pdflatex uri.drv
 makeindex -s gind.ist uri.idx
 pdflatex uri.drv
 makeindex -s gind.ist uri.idx
 pdflatex uri.drv
\end{verbatim}

6.5 Compiling the example

The example file, uri-example.tex, can be compiled via

\begin{verbatim}
 (pdf)latex uri-example.tex
\end{verbatim}

but will need probably three compiler runs to get everything right.

7 Acknowledgements

I (H.-Martin Münch) would like to thank HEIKO OBERDIEK for providing a lot (!) of useful packages (from which I also got everything I know about creating a file in dtx format, ok, say it: copying), FRANK MITTELBACH for several bug reports and for code for improving the package, VOLKER RW SCHAA for a bug report, everybody of the CTAN team for managing CTAN, and the news:comp.text.tex and news:de.comp.text.tex newsgroups and everybody at https://tex.stackexchange.com/ for their help in all things \TeX.

8 History

[2011/03/04 v1.0a]

• First version of this package.

[2011 – 2018 v1.0...]

• Several versions, which where not officially published.
Now using the `pdflscape` package instead of `lscape` package.

The `holtxdoc` package was fixed (recent: 2011/02/04, v0.21), therefore the warning in `drv` could be removed. – Adapted the style of this documentation to new Oberdiek dtx style.

Made \texttt{newcommands} robust.

OCLC and WebCite added; alternative package `aurl` added, URLs and documentation updated.

Name-to-Thing resolver added to the example.

XMPP removed due to changes at XMPP.

New `\urisetup` to be able to use complicated pre/post text (and change it mid-document!).

Added an optional argument to `\mailto` for providing the e-mail's subject.

Options `tinypre`, `tinypre`, `tinypost`, `tinyppost`, and `tinyppre` replaced by `tinyuripre`, `tinyuripre`, `tinyuripost`, `tinypuripost`, and `tinypuripre`, because the commands are `tinyuri` and `tinypuri`.

Bugs fixed.

Bug fix: README file format, .tds placement, wrong word, OID not n2t, description.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

9 Index

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