Documentation for doipubmed.sty

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1 Introduction

The commands defined in this package were primarily designed for use in bibliographies to make it easier to cite documents with digital object identifiers (DOI) or PubMed entries. If the command `\url` has been defined, the definition will remain, otherwise the `url` package will be loaded.

\doi

```
\doi{⟨ref number⟩}
```

This displays doi: ⟨*ref number*⟩ with a hyperlink to the corresponding web entry. For example:

```
\doi{10.1016/j.neunet.2004.07.002}
```

produces: doi: 10.1016/j.neunet.2004.07.002.

As from version 1.01, this command also works with awkward characters, for example:

```
\doi{10.1002/1521-3951(200103)224:1<271::AID-PSSB271>3.0.CO;2-\#}
```

produces: doi: 10.1002/1521-3951(200103)224:1<271::AID-PSSB271>3.0.CO;2-#.

Alternatively, you can do:

```
\doi{10.1002/1521-3951(200103)224:1<271::AID-PSSB271>3.0.CO;2-\%23}
```

which produces: doi: 10.1002/1521-3951(200103)224:1<271::AID-PSSB271>3.0.CO;2-%23.

\pubmed

```
\pubmed{⟨ref number⟩}
```

This displays PubMed: ⟨*ref number*⟩ with a hyperlink to the corresponding PubMed entry. For example:

`\pubmed{15541948}`

produces: PubMed: 15541948.

> `\citeurl{`⟨*url*⟩`}`

Displays the URL inside angle brackets. For example:

`\citeurl{http://theoval.cmp.uea.ac.uk/~gcc/publications/}`

produces: <http://theoval.cmp.uea.ac.uk/~gcc/publications/>.

2   The Code

Package initialisation and identification

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{doipubmed}[2007/08/20 1.01 (NLCT)]
```

If `\url` has not been defined, load the url package.

```
\@ifundefined{url}{\RequirePackage{url}}{}
```

If `\href` has been defined (e.g. if the hyperref package has been loaded), then do nothing, otherwise if `\htmladdnormallink` has been defined (e.g. if the html package has been loaded) then define `\href` in terms of `\htmladdnormallink`, otherwise define `\href` to simply print the second argument and the first is ignored (so there will be no hyperlink).

```
\AtBeginDocument{%
\@ifundefined{href}{
\@ifundefined{htmladdnormallink}{%
\newcommand*{\href}[2]{#2}
}{%
\newcommand*{\href}[2]{\htmladdnormallink{#2}{#1}}%
}
}{}}
```

Define some commands to allow the user to change the format of the text provided with the hyperlink.

| `\doitext{`⟨*doi ref*⟩`}`

This controls how to format the doi link text.

```
\newcommand*{\doitext}[1]{doi: #1}
```

| `\pubmedtext{`⟨*pub med code*⟩`}`

This controls how to format the PubMed link text.

```
\newcommand*{\pubmedtext}[1]{PubMed: #1}
```

```
        \doi
                \providecommand*{\doi}[1]{%
                \def\@doi@code{}%
                \@doi@linksubs#1\#\@@\@doi@code
                \@onelevel@sanitize{\@doi@code}%
                \def\@doi@text{}%
                \@doi@textsubs#1\@nil\@@\@doi@text
                \href{http://dx.doi.org/\@doi@code}{\doitext{\@doi@text}}}}

\@doi@linksubs
                \newtoks\@doi@toks
                \def\@doi@linksubs#1\##2\@@#3{%
                \def\@doi@tmp{#2}%
                \expandafter\@doi@toks\expandafter{#3}%
                \toks@{#1}%
                \edef#3{\the\@doi@toks\the\toks@}%
                \ifx\@doi@tmp\@empty
                  \let\@doi@next=\@doi@noop
                \else
                  \expandafter\@doi@toks\expandafter{#3}%
                  \edef#3{\the\@doi@toks\%23}%
                  \let\@doi@next=\@doi@linksubs
                \fi
                \@doi@next#2\@@#3\relax
                }

    \@doi@noop
                \def\@doi@noop#1\@@#2{}

\@doi@textsubs
                \def\@doi@textsubs#1#2\@@#3{%
                \def\@doi@argi{#1}%
                \def\@doi@argii{#2}%
                \ifx\@doi@argi\@nnil
                 \let\@doi@next=\@doi@noop
                \else
                 \ifx#1<\relax
                   \expandafter\@doi@toks\expandafter{#3}%
                   \edef#3{\the\@doi@toks\noexpand\textless}%
                 \else
                   \ifx#1>\relax
                     \expandafter\@doi@toks\expandafter{#3}%
                     \edef#3{\the\@doi@toks\noexpand\textgreater}%
                   \else
                     \expandafter\@doi@toks\expandafter{#3}%
                     \toks@{#1}%
                     \edef#3{\the\@doi@toks\the\toks@}%
                   \fi
                 \fi
                 \ifx\@doi@argii\@nnil
                   \let\@doi@next=\@doi@noop
                 \else
                   \let\@doi@next=\@doi@textsubs
                 \fi
```

```
            \fi
            \@doi@next#2\@@#3\relax
            }
```

 \pubmed

```
            \newcommand*{\pubmed}[1]{%
            \href{http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=#1&dopt=A
            \pubmedtext{#1}}}
```

\citeurl

```
            \newcommand*{\citeurl}[1]{\textless\url{#1}\textgreater}
```