Citations with PDF tooltips

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This paper describes package xcpdftips version 1.0 from 2019/03/10

1 Introduction

This package allows one to be able to do natbib citations with PDF tooltips.

2 Invoking the Package

The macros in this package are included in the main document with the \usepackage command of LATFX 2_{ε} ,

```
\documentclass[..]{...}
\usepackage{xcpdftips}
```

3 Usage

This package must be used with BIBTEX and natbib, not with a hand-written thebibliography environment. More precisely, there must be a .bbl file external to the LATEX file; whether this is written by hand or by BIBTEX is unimportant.

\xpdfcite

This is a replacement for natbib's \cite macro. Usage is the same:

```
\xpdfcite{\langle key(s) \rangle}
```

Similarly to \cite, the command \xpdfcite may take one or two optional arguments to add some text before and after the citation.

It is also possible to replace \cite:

```
\usepackage{xcpdftips}
\let\cite\xpdfcite \robustify{\cite}
```

The last command $\ \$ is needed if you wish to use $\$ instance, in captions.

4 Caveats

The xcpdftips package will work with natbib with its native \bibitem format, and with standard LATEX. Nothing else can be guaranteed. It will also work with url package.

5 Options with docstrip

The source .dtx file is meant to be processed with docstrip, for which a number of options are available:

package to produce a .sty package file with most comments removed;

driver to produce a driver .drv file that will print out the documentation under LaTeX 2ε . The documentation cannot be printed under LaTeX 2.09.

The source file xcpdftips.dtx is itself a driver file and can be processed directly by \LaTeX 2ε .

6 The Coding

This section presents and explains the actual coding of the macros. It is nested between %<*package> and %</package>, which are indicators to docstrip that this coding belongs to the package file.

\XC@enumeratetips

The macro \XC@enumeratetips gets bibentry for each key from the list of citations. The output is stored into \XC@tips, which can be directly used as a tooltip text in \pdftooltip.

```
1 (*package)
2
3 \ExplSyntaxOn
5 \NewDocumentCommand{ \XC@enumeratetips }%
6 { > { \SplitList , } m }%
7 {%
    \global\undef\XC@tips%
    \undef\XC@tipsPre%
9
    \tl_map_inline:nn {#1}%
10
    {%
11
      \ifx\XC@tips\undefined%
12
        \global\def\XC@tips{}%
13
        \gappto{\XC@tips}{\@nameuse{BR@r@##1\@extra@b@citeb}}%
14
      \else%
15
         \def\XC@tipsPre{\textbullet\ \ }
16
        \gappto{\XC@tips}{,\textCR\textbullet\ \ \@nameuse{BR@r@##1\@extra@b@citeb}}%
17
      \fi%
18
19
    }%
    \ifx\XC@tipsPre\undefined\else%
20
      \gpreto{\XC@tips}{\XC@tipsPre}%
21
    \fi%
22
23 }
24
25 \ExplSyntaxOff
```

\xcsetauthor

This commands sets the author used for pdf comments (default:).

```
27
28 \gdef\XC@opt@author{{}}
```

```
This commands sets the markup used for pdf comments (default: Underline).
  \xcsetmarkup
                32 \gdef\XC@opt@markup{Underline}
                This commands sets the color used for pdf comments (default: yellow).
   \xcsetcolor
                36 \gdef\XC@opt@color{1 1 0}
                37 \newcommand{\xcsetcolor}[1]{\gdef\XC@opt@color{#1}}
               This commands sets the opacity used for pdf comments (default: 0).
\XC@opt@opacity
                40 \gdef\XC@opt@opacity{0}
                41 \newcommand{\xcsetopacity}[1]{\gdef\XC@opt@opacity{#1}}
    \XC@citetp
               This macro is in fact \xpdfcite.
                It is a wrapper for \XC@@citetp to handle variable number of arguments.
                44 \newcommand\XC@citetp{\@ifnextchar[{\XC@@citetp}{\XC@@citetp[]}}
               This macro is called from \xpdfcite.
   \XC@@citetp
                It is a wrapper for \XC@citex to handle variable number of arguments.
                46
                47 \newcommand\XC@@citetp{}
                49 \def\XC00citetp[\#1]{\difnextchar[{\XC0citex[\#1]}{\XC0citex[][\#1]}}
     \XC@citex This is an internal macro that does the job of \xpdfcite. It combines \citep
                with \pdftooltip and \pdfmarkupcomment.
                51
                52 \newcommand\XC@citex{}
                54 \def\XC@citex[#1][#2]#3%
                   {%{\protect\NoHyper%
                      \ifx\tooltip\undefined%
                56
                       \XC@enumeratetips{#3}%
                57
                        \pdftooltip{\XC@oldcite[#1][#2]{#3}}{\XC@tips}%
                58
                59
                       \pdfmarkupcomment[%
                         author=\XC@opt@author,%
                60
                         markup=\XC@opt@markup,%
                61
                         color=\XC@opt@color,%
                62
                63
                         opacity=\XC@opt@opacity,%
                64
                       ]{\vphantom{.}}{\XC@tips}%
                65
                      \else%
```

```
\let\textCR\par%
66
         \XC@enumeratetips{#3}%
67
         \tooltip****{%
68
           {\protect\NoHyper\XC@oldcite[#1][#2]{#3}\protect\endNoHyper}%
69
70
         {\sigma(t)}_{0.9\text{textwidth}_{normalsize}}
71
    }%\protect\endNoHyper}}
72
74 \leftarrow XCOoldcite \subset \% Save \citep (in the case if it becomes redefined)
A wrapper for the combined \pdftooltip and \citep.
It has the same syntax as \citep.
77 \let\xpdfcite\XC@citetp
78 \robustify{\xpdfcite}
80 \AtBeginDocument{\nobibliography*} % Necessary to get bibentries.
```