

Citations with PDF tooltips

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This paper describes package `xcpdftips`
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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 $\text{\LaTeX} 2_{\epsilon}$,

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

3 Usage

This package must be used with \LaTeX 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 \LaTeX is unimportant.

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

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

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 `\robustify{\cite}` is needed if you wish to use `\cite`, for 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 L^AT_EX 2_ε. The documentation cannot be printed under L^AT_EX 2.09.

The source file `xcpdftips.dtx` is itself a driver file and can be processed directly by L^AT_EX 2_ε.

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 cita-
tions. The output is stored into \XC@tips, which can be directly used as a tooltip
text in \pdftooltip.
1 (*package)
2
3 \ExplSyntaxOn
4
5 \NewDocumentCommand{ \XC@enumeratetips }%
6 { > { \SplitList , } m }%
7 {%
8   \global\undef\XC@tips%
9   \undef\XC@tipsPre%
10  \tl_map_inline:nn {#1}%
11  {%
12    \ifx\XC@tips\undefined%
13      \global\def\XC@tips{}%
14      \gappto{\XC@tips}{\@nameuse{BR@r@##1\@extra@b@citeb}}%
15    \else%
16      \def\XC@tipsPre{\textbullet\ \ }
17      \gappto{\XC@tips}{,\textCR\textbullet\ \ \@nameuse{BR@r@##1\@extra@b@citeb}}%
18    \fi%
19  }%
20  \ifx\XC@tipsPre\undefined\else%
21    \gpreto{\XC@tips}{\XC@tipsPre}%
22  \fi%
23 }
24
25 \ExplSyntaxOff
26

\xcsetauthor This commands sets the author used for pdf comments (default: ).
27
28 \gdef\XC@opt@author{}}
```

```

29 \newcommand{\xcsetauthor}[1]{\gdef\XC@opt@author{#1}}
30
\xcsetmarkup This commands sets the markup used for pdf comments (default: Underline).
31
32 \gdef\XC@opt@markup{Underline}
33 \newcommand{\xcsetmarkup}[1]{\gdef\XC@opt@markup{#1}}
34
\xcsetcolor This commands sets the color used for pdf comments (default: yellow).
35
36 \gdef\XC@opt@color{1 1 0}
37 \newcommand{\xcsetcolor}[1]{\gdef\XC@opt@color{#1}}
38
\XC@opt@opacity This commands sets the opacity used for pdf comments (default: 0).
39
40 \gdef\XC@opt@opacity{0}
41 \newcommand{\xcsetopacity}[1]{\gdef\XC@opt@opacity{#1}}
42
\XC@citetp This macro is in fact \xpdfcite.
It is a wrapper for \XC@@citetp to handle variable number of arguments.
43
44 \newcommand\XC@citetp{\@ifnextchar[{\XC@@citetp}{\XC@@citetp[]}}
45
\XC@@citetp This macro is called from \xpdfcite.
It is a wrapper for \XC@citex to handle variable number of arguments.
46
47 \newcommand\XC@@citetp{
48
49 \def\XC@@citetp[#1]{\@ifnextchar[{\XC@citex[#1]}{\XC@citex[] [#1]}}
50
\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{
53
54 \def\XC@citex[#1] [#2]#3%
55   {%{\protect\NoHyper%
56     \ifx\ocgtooltip\undefined%
57       \XC@enumeratetips{#3}%
58       \pdftooltip{\XC@oldcite[#1] [#2]{#3}}{\XC@tips}%
59       \pdfmarkupcomment[%
60         author=\XC@opt@author,%
61         markup=\XC@opt@markup,%
62         color=\XC@opt@color,%
63         opacity=\XC@opt@opacity,%
64         ]{\vphantom{.}}{\XC@tips}%
65       \else%
```

```

66     \let\textCR\par%
67     \XC@enumeratetips{#3}%
68     \ocgtooltip{%
69         {\protect\NoHyper\XC@oldcite[#1][#2]{#3}\protect\endNoHyper}}%
70         {\parbox[t]{\columnwidth}{\normalfont\small\XC@tips}}}%
71     \fi%
72 }%\protect\endNoHyper}}
73
74 \let\XC@oldcite\citep % Save \citep (in the case if it becomes redefined)
75
\pdfcite A wrapper for the combined \pdftooltip and \citep.
It has the same syntax as \citep.

76
77 \let\pdfcite\XC@citetp
78 \robustify{\pdfcite}
79
80 \AtBeginDocument{\nobibliography*} % Necessary to get bibentries.
81

```