

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 `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. The usage is the same:

```
\xpdfcite{<key>}
```

It is also possible to replace `\cite`:

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

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 citations. 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   \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      \gappto{\XC@tips}{,\textCR--~\@nameuse{BR@r@##1\@extra@b@citeb}}
16    \fi
17  }
18 }
19
20 \ExplSyntaxOff
21
```

`\XC@citetp` This macro is in fact `\xpdfcite`.
It is a wrapper for `\XC@@citetp` to handle variable number of arguments.

```

22
23 \newcommand\XC@citetp{\@ifnextchar[{\XC@@citetp}{\XC@@citetp[]}}
24
```

`\XC@@citetp` This macro is called from `\xpdfcite`.
It is a wrapper for `\XC@citex` to handle variable number of arguments.

```

25
26 \newcommand\XC@@citetp{}
27 \def\XC@@citetp[#1]{\@ifnextchar[{\XC@citex[#1]}{\XC@citex[] [#1]}}
28
\XC@citex This macro does the actual job. It is an internal wrapper for the combined
\pdftooltip and \citep.
29
30 \newcommand\XC@citex{}
31
32 \def\XC@citex[#1] [#2] #3{%
33   \XC@enumeratetips{#3}
34   \pdftooltip{\XC@oldcite[#1] [#2] {#3}}{\XC@tips}%
35 }
36
37 \let\XC@oldcite\citep % Save \citep (in the case if it becomes redefined)
38
\xpdfcite A wrapper for the combined \pdftooltip and \citep.
It has the same syntax as \citep.
39
40 \let\xpdfcite\XC@citetp
41
42 \AtBeginDocument{\nobibliography*} % Necessary to get bibentries.
43

```