

# 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 L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>,

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

## 3 Usage

This package must be used with B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> and `natbib`, not with a hand-written `thebibliography` environment. More precisely, there must be a `.bbl` file external to the L<sup>A</sup>T<sub>E</sub>X file; whether this is written by hand or by B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> 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
```

## 4 Caveats

The `xcpdftips` package will work with `natbib` with its native `\bibitem` format, and with standard L<sup>A</sup>T<sub>E</sub>X. 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<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. The documentation cannot be printed under L<sup>A</sup>T<sub>E</sub>X 2.09.

The source file `xcpdftips.dtx` is itself a driver file and can be processed directly by L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>.

## 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      }%
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
28 \def\XC@citetp[#1]{\@ifnextchar[{\XC@citex[#1]}{\XC@citex[] [#1]}}
29
\XC@citex This macro does the actual job. It is an internal wrapper for the combined
\pdftooltip and \citep.
30
31 \newcommand\XC@citex{}
32
33 \def\XC@citex[#1] [#2]#3{%
34   \XC@enumeratetips{#3}%
35   \pdftooltip{\XC@oldcite[#1] [#2]{#3}}{\XC@tips}%
36 }
37
38 \let\XC@oldcite\citep % Save \citep (in the case if it becomes redefined)
39
\xpdcite A wrapper for the combined \pdftooltip and \citep.
It has the same syntax as \citep.
40
41 \let\xpdcite\XC@citetp
42
43 \AtBeginDocument{\nobibliography*} % Necessary to get bibentries.
44

```