

Package ‘knitcitations’

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Type Package

Title Citations for 'Knitr' Markdown Files

Version 1.0.7

Description Provides the ability to create dynamic citations in which the bibliographic information is pulled from the web rather than having to be entered into a local database such as 'bibtex' ahead of time. The package is primarily aimed at authoring in the R 'markdown' format, and can provide outputs for web-based authoring such as linked text for inline citations. Cite using a 'DOI', URL, or 'bibtex' file key. See the package URL for details.

URL <https://github.com/cboettig/knitcitations>

BugReports <https://github.com/cboettig/knitcitations/issues>

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VignetteBuilder knitr

Depends R (>= 3.0)

Imports RefManagerR (>= 0.8.2), digest, httr (>= 0.3), methods, utils

Suggests testthat, knitr (>= 1.6)

NeedsCompilation no

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bibliography	<i>Generate the bibliography</i>
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Description

Generate the bibliography

Usage

```
bibliography(..., style = NULL)
```

Arguments

...	additional arguments passed to PrintBibliography,
style	the name of the journal style, e.g. "mla", "nature", "methods-in-ecology-and-evolution", etc. See details.

Details

Not that style will use the ordering rule set in BibOptions, but not the other formatting options (which will come from the CSL sheet instead). NOTE that csl formatting works only if reference has a DOI.

For non-trivial bibliographies, knittitations recommends authors use pandoc format, see `cite_options(cite_format="pandoc")`, and allow pandoc to generate the references list rather than rely on the `bibliography()` function. Pandoc has rich CSL support using any provided CSL file (see Pandoc documentation for details) and is integrated into recent version of RStudio.

Value

a list of works cited

Examples

```
citet(citation("XML"))
citet(citation("digest"))
bibliography()
bibliography(sorting = 'ynt') # sort by year, then name, title
bibliography(sorting = 'ydnt') # sort by year, descending, then name, title
cleanbib()
```

```
# these examples require an internet connection
citet("Vos NeXML 2012")
citet("Boettiger Ross Hastings 2013")
bibliography(style="nature")
bibliography(style="nature", sorting = 'ynt') # obeys sorting rule
```

bib_metadata	<i>get the full metadata for a citation / bibliographic object</i>
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Description

get the full metadata for a citation / bibliographic object

Usage

```
bib_metadata(x, BibEntry = TRUE, ...)
```

Arguments

x	a query or citation identifier, as in citep/citet, except that it must be a single query, not a list of multiple queries.
BibEntry	logical. Coerce to RefManager's BibEntry type?
...	additional arguments to query (see RCrossRef)

Details

This function is called internally by citet and citep, but is also made available in the namespace for a user wanting to return the full citation object directly.

Value

a BibEntry (or bibentry, if requested) object with the required citation information.

citep	<i>citep - inline parenthetical citation</i>
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Description

Generate an inline parenthetical citation

Usage

```
citep(x, ...)
```

Arguments

x a citation query, or list of queries for multiple citations. See details and examples
 ... additional arguments for the search or formatting. See details.

Details

the citation query can be any of: - A bibentry object, - An article or dataset DOI, - The URL to a website such as a scientific journal article page - A path to a PDF file (will attempt to extract citation info) - A search query string, such as part of the article title, year, or journal (Queries CrossRef) - The bibkey to anything that has already been cited. knitcitations will attempt to find the most complete citation information based on the information specified. In some cases that information may be incomplete. When using search queries rather than an exact reference (such as URL, DOI, pdf, or bibkey) the desired article may not be found or many not be uniquely determined by the string. The most relevant search result is returned, so consider refining search terms as necessary. See examples.

Value

Format of the parenthetical citation will depend on configuration. Unless `citation_format = "pandoc"`, formatting is handled by Citep. See the arguments to Citep for details.

Examples

```
# Cite an R package using the 'bibentry' object
citet(citation("RCurl"))

# Cite using a search query and an optional argument
citet("Chamberlain taxize", year="2013")
```

citet

citet - inline parenthetical citation

Description

Generate an inline parenthetical citation

Usage

```
citet(x, ...)
```

Arguments

x a citation query, or list of queries for multiple citations. See details and examples
 ... additional arguments for the search or formatting. See details.

Details

the citation query can be any of: - A bibentry object, - An article or dataset DOI, - The URL to a website such as a scientific journal article page - A path to a PDF file (will attempt to extract citation info) - A search query string, such as part of the article title, year, or journal (Queries CrossRef) - The bibkey to anything that has already been cited. knitcitations will attempt to find the most complete citation information based on the information specified. In some cases that information may be incomplete. When using search queries rather than an exact reference (such as URL, DOI, pdf, or bibkey) the desired article may not be found or many not be uniquely determined by the string. The most relevant search result is returned, so consider refining search terms as necessary. See examples.

Value

Format of the parenthetical citation will depend on configuration. Unless citation_format = "pandoc", formatting is handled by Citet. See the arguments to Citet for details. knitcitations will automatically track what has been cited during the active R session until the citation log is reset

Examples

```
# Cite an R package using the 'bibentry' object
citet(citation("RCurl"))

# Cite using a search query and an optional argument
citet("Chamberlain taxize", year="2013")
```

cite_options

Toggles for various citation options

Description

Toggles for various citation options

Usage

```
cite_options(citation_format = "compatibility", style = "text",
             hyperlink = FALSE, cite.style = "authoryear", super = FALSE,
             max.names = 4, longnamesfirst = FALSE, check.entries = FALSE, ...)
```

Arguments

```
citation_format      'pandoc', 'compatibility' (with version 0.5 or earlier), or 'text'
style                plain "text" style (default) inline citations, "markdown" style or or html style
                    links to the hyperlink
```

hyperlink	Either logical (FALSE), or link "to.doc" (by DOI if available, otherwise to URL), or link "to.bib" section.
cite.style	Should inline textual citations use "authoryear", "numeric", or "authortitle" format?
super	logical, should numeric cite.style be a superscript?
max.names	numeric, maximum number of names to list before adding "et al."
longnamesfirst	logical. Should all authors be listed the first time a citation is used (rather than obeying max.names?)
check.entries	logical. Should error if any 'required' bibtex field is missing? Default FALSE
...	additional arguments to BibOptions

Value

updates the option specified for the duration of the session.

cleanbib	<i>cleanbib</i>
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Description

Clean the log of works cited so far.

Usage

```
cleanbib()
```

greycite	<i>greycite citation method</i>
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Description

Grab citation data using the greycite API

Usage

```
greycite(url, format = c("bib", "json"))
```

Arguments

url	the website URL
format	have greycite return data in bib (bibtex) or json format?

Value

a bibentry class object

read.bibtex	<i>read.bibtex</i>
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Description

read.bibtex

Usage

```
read.bibtex(file, .Encoding = "UTF-8", check = FALSE)
```

Arguments

file	string; bib file to parse.
.Encoding	encoding
check	error, warn, or logical FALSE. What action should be taken if an entry is missing required fields? FALSE means no checking is done, warn means entry is added with an error. error means the entry will not be added. See BibOptions.

record_as_cited	<i>record as cited</i>
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Description

adds a BibEntry object to the works cited list even if not cited with a call to citep/citet

Usage

```
record_as_cited(entry)
```

Arguments

entry	a BibEntry object (or something that can be coerced to one, like bibentry)
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Value

Adds the object to the citation list, with a BibTeX citation key that does not duplicate any that are already in the record. Invisibly returns the bibentry object.

write.bibtex	<i>write a bibtex file</i>
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Description

write a bibtex file

Usage

```
write.bibtex(entry = NULL, file = "knitcitations.bib", append = FALSE,  
...)
```

Arguments

entry	a 'bibentry' object or list of bibentry objects. If NULL, writes all that have currently been cited.
file	output bibtex file. Will automatically append '.bib' if not added. if 'NULL' will use stdout.
append	a logical indicating that bibtex entries be added the the file. If FALSE (default), the file is overwritten.
...	additional arguments to WriteBib

Value

a list of citation information, invisibly

See Also

read.bib citep citet

Examples

```
write.bibtex(c(citation("knitr"),  
              citation("knitcitations"),  
              citation("RCurl")))  
bib <- read.bibtex("knitcitations.bib")
```


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