Package 'bib2df'

October 12, 2022

Type Package

Title Parse a BibTeX File to a Data Frame

Version 1.1.1

Description
Parse a BibTeX file to a data.frame to make it accessible for further analysis and visualization.

URL https://github.com/ropensci/bib2df

BugReports http://github.com/ropensci/bib2df/issues

License GPL-3

LazyData TRUE

Imports dplyr, stringr, humaniformat, httr

Suggests testthat, knitr, rmarkdown, ggplot2, tidyr

RoxygenNote 6.1.1

VignetteBuilder knitr

Encoding UTF-8

NeedsCompilation no

Author Philipp Ottolinger [aut, cre],
Thomas Leeper [ctb],
Maëlle Salmon [ctb],
Paul Egeler [ctb],
Emilio Xavier Esposito [ctb]

Maintainer Philipp Ottolinger <philipp@ottolinger.de>

Repository CRAN

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R topics documented:

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bib2df-package   *bib2df: Parse a BibTeX file to* `data.frame`

Description

This package provides functions to parse and write BibTeX files. BibTeX files can be parsed to `data.frame` to make them accessible with popular tools like `dplyr`, `tidyr`, `ggplot2` and many more.

Details

BibTeX entries represented in a `data.frame` can be altered in a familiar way and written back to a valid BibTeX file.

To learn more about `bib2df`, start with the vignettes: `browseVignettes(package = "bib2df")`

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bib2df   *Parse a BibTeX file to a* `tibble`

Description

The BibTeX file is read, parsed, tidied and written to a `tibble`

Usage

```
bib2df(file, separate_names = FALSE)
```

Arguments

`file`	character, path or URL to a .bib file.
`separate_names`	logical, should authors' and editors' names be separated into first and given name?

Details

For simplicity `bib2df()` unifies the reading, parsing and tidying of a BibTeX file while being aware of a standardized output format, different BibTeX styles and missing values in the BibTeX file.

When `separate_names = TRUE`, the respective columns contain a `data.frame` for each row. When `FALSE`, the respective columns contain character strings.

Value

A `tibble`.

Author(s)

Philipp Ottolinger

See Also

df2bib

Examples

```
# Read from .bib file:
path <- system.file("extdata", "bib2df_testfile_3.bib", package = "bib2df")
bib <- bib2df(path)
str(bib)

# Read from .bib file and separate authors' and editors' names:
bib <- bib2df(path, separate_names = TRUE)
str(bib)
```

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df2bib   *Export a BibTeX* tibble *to a .bib file*

Description

The BibTeX tibble is written to a .bib file

Usage

```
df2bib(x, file = "", append = FALSE)
```

Arguments

x	tibble, in the format as returned by bib2df.
file	character, file path to write the .bib file. An empty character string writes to stdout (default).
append	logical, if TRUE the tibble will be appended to an existing file.

Value

file as a character string, invisibly.

Author(s)

Thomas J. Leeper

References

http://www.bibtex.org/Format/

See Also

bib2df

Examples

```
# Read from .bib file:
path <- system.file("extdata", "bib2df_testfile_3.bib", package = "bib2df")
bib <- bib2df(path)

# Write to .bib file:
# bibFile <- tempfile()
# df2bib(bib, bibFile)

# Use `append = TRUE` to add lines to an existing .bib file:
# df2bib(bib, bibFile, append = TRUE)
```

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