

Package ‘citation’

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Type Package

Title Software Citation Tools

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Description A collection of functions to extract citation information from 'R' packages and to deal with files in 'citation file format' (<<https://citation-file-format.github.io/>>), extending the functionality already provided by the citation() function in the 'utils' package.

Imports desc, jsonlite, utils, withr, yaml

Suggests covr, testthat

URL <https://github.com/pik-piam/citation>,
<https://doi.org/10.5281/zenodo.3813429>

BugReports <https://github.com/pik-piam/citation/issues>

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Encoding UTF-8

RoxygenNote 7.2.1

NeedsCompilation no

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citation-package	<i>citation: Software Citation Tools</i>
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Description

A collection of functions to extract citation information from 'R' packages and to deal with files in 'citation file format' (<https://citation-file-format.github.io/>), extending the functionality already provided by the citation() function in the 'utils' package.

Author(s)

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See Also

Useful links:

- <https://github.com/pik-piam/citation>
- doi: [10.5281/zenodo.3813429](https://doi.org/10.5281/zenodo.3813429)
- Report bugs at <https://github.com/pik-piam/citation/issues>

cff2bibentry	<i>cff2bibentry</i>
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Description

Converter citation file format to bibentry

Usage

```
cff2bibentry(x)
```

Arguments

x path to citation file or read in citation in citation file format

Author(s)

Jan Philipp Dietrich

cff2r

*Convert from CFF into R***Description**

Converts a CFF file into DESCRIPTION

Usage

```
cff2r(cffFile = "CITATION.cff", export = FALSE, ...)
```

Arguments

<code>cffFile</code>	Path and name of the CFF file
<code>export</code>	if 'TRUE', the output is saved as DESCRIPTION (plus an extension to avoid overwriting)
<code>...</code>	when <code>export = TRUE</code> , the user can pass additional arguments to the <code>exportDESCRIPTION</code> function. More information in the Details section.

Details

CFF is a standard format for the citation of software proposed by Stephan Druskat et. al. (see references below). CFF-compliant files are stored in files named CITATION.cff.

CITATION.cff files are plain text files with human- and machine-readable citation information for software. Code developers can include them in their repositories to let others know how to correctly cite their software.

When `export = TRUE`, the user can use the following arguments to customize the output file:

outname The name of the exported file

overwrite Defaults to FALSE. If TRUE, will replace any homonymous file present on the export path

outpath By default, the file is saved to a temporary directory. One may provide a different path here. For example, `outpath = "."` will save to the current working directory

Value

A CFF file converted to a DESCRIPTION file.

Author(s)

Waldir Leoncio

References

Druskat S., Spaaks J.H., Chue Hong N., Haines R., Baker J. (2019). Citation File Format (CFF) (version 1.1.0). DOI: <http://doi.org/10.5281/zenodo.1003149>
<https://www.software.ac.uk/blog/2017-12-12-standard-format-citation-files> <https://citation-file-format.github.io>
<https://github.com/citation-file-format/citation-file-format/blob/master/README.md> <https://citation-file-format.github.io/cff-initializer-javascript/>

See Also

r2cff

Examples

```
# Printing converted file onto R session
citation_file <- system.file("CFF-CITATION.cff", package = "citation")
cff2r(citation_file)

# Saving converted file to temporary folder on system
tempFolder <- tempdir()
cff2r(
  citation_file, export = TRUE, outname = "converted-desc", overwrite = TRUE,
  outpath = tempFolder
)

# Making sure the file is indeed there
cat(readLines(file.path(tempFolder, "converted-desc")), sep="\n")
```

cff2zenodo

cff2zenodo

Description

Converter citation file format to .zenodo.json metadata file for proper metadata input to Zenodo.

Usage

```
cff2zenodo(x)
```

Arguments

x path to citation file or read in citation in citation file format. If a path is provided the .zenodo.json information will be written directly to a .zenodo.json file in the corresponding folder. Otherwise the metadata will be just returned by the function.

Value

The metadata information that should be provided to Zenodo in JSON format.

Author(s)

Jan Philipp Dietrich

citation2zenodo	<i>citation2zenodo</i>
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Description

Converts an object of class citation into a .zenodo.json file. This file is an (officially unsupported) method to provide ZENODO with metadata information about the package and will overwrite the information ZENODO would otherwise auto-generate from the repository.

Usage

```
citation2zenodo(cit, folder = NULL)
```

Arguments

cit	an object of class citation as returned for instance by the function <code>citation</code> , or the name of a R package to be used as source.
folder	a folder the file should be written to. If NULL the content is instead printed.

Author(s)

Jan Philipp Dietrich

Examples

```
cit <- citation_doi("citation")
citation2zenodo(cit)
```

citation_doi	<i>citation_doi</i>
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Description

Extension of the standard citation function which also extracts DOI information from the URL field in the DESCRIPTION file, if available.

Usage

```
citation_doi(package)
```

Arguments

package a character string with the name of a single package.

Author(s)

Jan Philipp Dietrich

Examples

```
citation_doi("citation")
```

package2zenodo	<i>package2zenodo</i>
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Description

Creates a .zenodo.json for a R package. This file is an (officially unsupported) method to provide ZENODO with metadata information about the package and will overwrite the information ZENODO would otherwise auto-generate from the repository.

Usage

```
package2zenodo(package = ".")
```

Arguments

package either the path to the main folder of a package (containing a DESCRIPTION file) or the name of the package. If a path is provided the .zenodo.json file will be directly added to the folder. Otherwise the content of such a file is just returned.

Value

The metadata information that should be provided to Zenodo in JSON format.

Author(s)

Jan Philipp Dietrich

Examples

```
package2zenodo("citation")
```

`r2cff`*Convert from R DESCRIPTION into CFF*

Description

Converts an R package DESCRIPTION file to Citation File Format

Usage

```
r2cff(descriptionFile = "DESCRIPTION", export = FALSE)
```

Arguments

`descriptionFile`

Path and name of the DESCRIPTION file

`export`

if 'TRUE', the output is saved as CITATION.cff

Details

CFF is a standard format for the citation of software proposed by Stephan Druskat et. al. (see references below). CFF-compliant files are stored in files named CITATION.cff.

CITATION.cff files are plain text files with human- and machine-readable citation information for software. Code developers can include them in their repositories to let others know how to correctly cite their software.

Value

The package's DESCRIPTION file converted to CFF

Author(s)

Waldir Leoncio

References

Druskat S., Spaaks J.H., Chue Hong N., Haines R., Baker J. (2019). Citation File Format (CFF) (version 1.1.0). DOI: <http://doi.org/10.5281/zenodo.1003149>

<https://www.software.ac.uk/blog/2017-12-12-standard-format-citation-files> <https://citation-file-format.github.io>
<https://github.com/citation-file-format/citation-file-format/blob/master/README.md> <https://citation-file-format.github.io/cff-initializer-javascript/>

See Also

`cff2r`

Examples

```
descr <- system.file("DESCRIPTION", package = "citation")
r2cff(descr)
```

read_cff

read_cff

Description

Read a citation file format file (<https://citation-file-format.github.io/>)

Usage

```
read_cff(file)
```

Arguments

file path to the citation file

Author(s)

Jan Philipp Dietrich

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