

# Package ‘citation’

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**Type** Package

**Title** Software Citation Tools

**Version** 0.6.3

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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>

**License** BSD\_2\_clause + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.2.1

**NeedsCompilation** no

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**Repository** CRAN

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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)

**Maintainer:** Jan Philipp Dietrich <dietrich@pik-potsdam.de>

Authors:

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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>

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|              |                     |
|--------------|---------------------|
| 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

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`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")
```

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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

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`citation2zenodo`      *citation2zenodo*

---

**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 `citation`, 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`            *citation\_doi*

---

**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")
```

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`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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