

# Package ‘citation’

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**Type** Package

**Title** Software Citation Tools

**Version** 0.6.2

**Date** 2022-01-31

**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** 7.1.2

**NeedsCompilation** no

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**Repository** CRAN

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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	<i>Convert from CFF into R</i>
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### Description

Converts a CFF file into DESCRIPTION

### Usage

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

### Arguments

cffFile	Path and name of the CFF file
export	if 'TRUE', the output is saved as DESCRIPTION (plus an extension to avoid overwriting)
...	when export = TRUE, the user can pass additional arguments to the exportDESCRIPTION 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")
cffi2r(citation_file)

# Saving converted file to temporary folder on system
tempFolder <- tempdir()
cffi2r(
  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*


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### 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.
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### 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 <a href="#">citation</a> , 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)
```

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<i>citation_doi</i>	<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

*package2zenodo*


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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*


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### 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)
```

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read\_cff

*read\_cff*

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**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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