

# Package: citation (via r-universe)

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**Type** Package

**Title** Software Citation Tools

**Version** 0.12.0

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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** 7.3.2

**Config/Keywords** tool

**Repository** <https://pik-piam.r-universe.dev>

**RemoteUrl** <https://github.com/pik-piam/citation>

**RemoteRef** HEAD

**RemoteSha** 92394879832dc974562101212eda7b83d1ee9ad4

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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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Authors:

- Waldir Leoncio <w.l.netto@medisin.uio.no> (University of Oslo)

## 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*

*cff2bibentry*

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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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*cff2md*

*cff2md*

---

**Description**

Creates a summary of the CFF content in markdown format. This can be useful for instance to create software reports.

**Usage**

`cff2md(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
 

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### 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**

r2cfl

**Examples**

```
## Not run:
# Printing converted file onto R session
citation_file <- system.file("CFF-CITATION.cfl", package = "citation")
cfl2r(citation_file)

# Saving converted file to temporary folder on system
tempFolder <- tempdir()
cfl2r(
  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")

## End(Not run)
```

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`cfl2zenodo`*cfl2zenodo*

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**Description**

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

**Usage**`cfl2zenodo(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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 cffReport

*cffReport*


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### Description

Creates a report in markdown format for a provided list of repositories and or CITATION.cff files.

### Usage

```
cffReport(repos, file = NULL, sortBy = "title")
```

### Arguments

repos	character vector of repository urls or links to CITATION.cff files to be scanned
file	character string naming a file the report should be written to. If NULL the report will be directly returned by the function.
sortBy	category by which the report should sort its entries

### Value

the report in markdown format

### Author(s)

Jan Philipp Dietrich

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 citation2zenodo

*citation2zenodo*


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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 <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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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")
```

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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*

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**Description**

Converts an R package DESCRIPTION file to Citation File Format

**Usage**

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

**Arguments**

descriptionFile either the path to a DESCRIPTION file, the path to a main folder of a package (containing a DESCRIPTION file) or the name of a package.

export if 'TRUE', the output is saved as CITATION.cff in the folder of the DESCRIPTION file.

**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, Jan Philipp Dietrich

**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**

```
r2cff("citation")
```

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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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scanRepos

*scan repositories*

---

**Description**

Scan repositories for existing CITATION.cff information

**Usage**

```
scanRepos(repos)
```

**Arguments**

repos            character vector of repository urls or links to CITATION.cff files to be scanned

**Value**

A list with CITATION.cff information collected from the provided repositories

**Author(s)**

Jan Philipp Dietrich

**See Also**

read\_cff

**Examples**

```
scanRepos(c("https://github.com/magpiemodel/magpie",  
          "https://github.com/remindmodel/remind"))
```

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