

Package: jss (via r-universe)

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Description R functions and tools for computations on the LaTeX/BibTeX source code of manuscripts for the Journal of Statistical Software (<<https://www.jstatsoft.org/>>).

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Suggests base64enc, bibtex, formatR, magick, rcrossref (>= 0.8.4), rorcid, tm, tth

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as.bibentry

Coercion to Bibentry Objects

Description

Generic function and method for coercion to objects of class "bibentry".

Usage

```
as.bibentry(x, ...)
```

```
## S3 method for class 'jss'
as.bibentry(x, keytype = c("number", "author"), doi = TRUE, url = !doi, ...)
```

Arguments

x	an object (of class "jss").
keytype	character specifying which type of bib key should be generated.
doi	logical. Should the DOI be included in the bibentry?
url	logical. Should the URL be included in the bibentry?
...	arguments passed to methods.

Details

Currently only a method for objects of class "jss" is provided.

Value

An object of class "bibentry".

See Also

[jss](#), [bibentry](#)

fix_bib

Fix BibTeX Files According to JSS Style Guidelines

Description

Utilities for processing BibTeX files, adding DOIs etc., especially for publications in the Journal of Statistical Software.

Usage

```
fix_bib(x = NULL, file = x, orig = "_orig.bib",
        bibtool = TRUE, doi = TRUE, shortcites = TRUE, escape = TRUE)

bibtool(tex = NULL, orig = "_orig.bib")

shortcites(x, maxlength = 6)

get_doi(x, minscore = 1.5, type = NULL)
add_doi(x, file = "out.bib", minscore = 1.5)

read_bib(file, ...)
```

Arguments

x	character or bibentry object. If NULL the first BibTeX file in the current working directory is used. If a character is supplied it is read into a bibentry object using read.bib .
file	character for output BibTeX file name.
orig	character with file name for copy of the original BibTeX file (if any).
bibtool	logical. Should bibtool be run first (usually to remove bibentries that are not cited)?
doi	logical. Should DOIs be added using <code>get_doi</code> (based on cr_works)?
shortcites	logical. Should bibentries with a long author list be reported in a shortcites statement?
escape	logical or character. Should encoded text (non-ASCII, e.g., for accent and umlaut characters) be preserved in BibTeX output (FALSE) or escaped by their LaTeX representations (TRUE, default)? Instead of TRUE it is also possible to indicate the encoding of the text (e.g., <code>escape = "UTF-8"</code>) explicitly.
tex	character specifying the input LaTeX file.
maxlength	numeric. Maximum number of authors for a normal cite (that does not have to be shortened).
minscore	numeric. Minimum score that needs to be achieved when querying a DOI.
type	character. The reference type (e.g., "journal-article" or "book") that needs to be matched.
...	further arguments passed to read.bib .

Details

The `fix_bib` function is a utility to automatically bring a .bib file almost into JSS style. By default, it proceeds by reading a .bib file using [read.bib](#), omitting unused entries using `bibtool`, modifying author names, titles, journals, etc. if necessary, adding DOIs for articles and books using [cr_works](#), and writing the result again to the same .bib file.

Some steps can be switched off by setting the corresponding arguments. Standalone functions for these steps are also provided.

Value

fix_bib and add_doi return an object of class "bibentry" (invisibly if an output file is specified).

bibtol returns a logical, only indicating whether the file renaming worked.

shortcites and get_doi return character vectors with BibTeX keys and DOIs, respectively.

See Also

[jss](#)

Examples

```
bibfile <- system.file("bib", "example.bib", package = "jss")

if(require("bibtex")) {

  ## read BibTeX entry as currently stored
  bde1 <- read.bib(bibfile)
  print(bde1)
  toBibtex(bde1)

  ## fix BibTeX entry
  ## - but do not overwrite file
  ## - running bibtol is not necessary (and also not possible as there is no .tex file)
  ## - querying the DOI is switched off (just to save processing time in this example)
  bde2 <- fix_bib(bibfile, file = FALSE, bibtol = FALSE, doi = FALSE)
  print(bde2)
  toBibtex(bde2)
  ## This has
  ## - a capitalized title,
  ## - correctly spaces the middle initials,
  ## - unifies the TAS journal name,
  ## - and the DOI could be added by setting doi = TRUE or manually queried via
  ## get_doi(bde2)

  ## cleanup
  file.remove("_orig.bib")
}
```

Description

The function fix_rscript is just a simple convenience interface to [tidy_source](#), using certain argument settings. The code_lines function is a small utility for counting lines after removing comments and empty lines.

Usage

```
fix_rscript(file = NULL)

code_lines(path = ".", comment = "#")
```

Arguments

file	character. The .R script that should be fixed, by default <code>Sys.glob("*.R")</code> is used.
path	character specifying a directory with .R files.
comment	character for beginning comments.

See Also

[tidy_source](#)

get_orcidlink	<i>Obtain ORCID Links for Authors</i>
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Description

Query <https://orcid.org> in order to obtain orcidlinks for all authors in a JSS paper.

Usage

```
get_orcidlink(person = NULL, rows = 1L, verbose = TRUE, ...)
```

Arguments

person	character, person object, or jss object. In case of a character it can either be the file name of a JSS-style LaTeX file (by default the first LaTeX file in the current working directory is used) or person names (optionally enhanced by ORCID search strings).
rows	integer. The number of search results for each author.
verbose	logical. Should results be printed to the screen and the ORCID URL opened in the browser? If set to TRUE, results are returned invisibly.
...	further arguments passed to orcid .

Details

The `get_orcidlink` function is a utility to automatically search possible ORCID links for each author in a JSS paper. By default it reads the first LaTeX file in the current directory (assuming it is in JSS style), extracts the author names, and then uses [orcid](#) to query <https://orcid.org/> for their possible ORCIDs.

All search results should be checked carefully because the chance to obtain an erroneous ORCID result is quite high if an author does not have an ORCID.

For authentication see the **rorcid** package. An easy option is to run [orcid_auth](#) once and put the resulting UUID string into your .Rprofile as `options(orcid_token = "...")`.

Value

`get_orcidlink` returns a character matrix with the author names, ORCID links in LaTeX format, and ORCID URLs. The matrix is returned invisible if `verbose = TRUE` (the default).

See Also

[jss](#), [orcid](#)

Examples

```
## Not run:
get_orcidlink("Achim Zeileis")

## End(Not run)
```

jss

Metainformation Processing for JSS Publications

Description

Utilities for processing the metainformation of (forthcoming) publications in the Journal of Statistical Software (JSS).

Usage

```
jss(dir = ".")

## S3 method for class 'jss'
format(x, style = "BibTeX", ...)
## S3 method for class 'jss'
as.character(x, ...)
```

Arguments

<code>dir</code>	character specifying the directory to a JSS publication along with supplementary files (if any).
<code>x</code>	an object of class jss .
<code>style</code>	character specifying the style of string that should be generated (BibTeX, CITATION, or README).
<code>...</code>	arguments passed to other functions.

Details

The function `jss` sets up a list with information about the publication and corresponding supplementary files. The resulting object of class `jss` can then be formatted or coerced into different formats.

Value

`jss` returns an object of class `"jss"`, i.e., a list with components as follows.

<code>key</code>	character vector with two possible styles of bib keys,
<code>author</code>	character vector with LaTeX-style formatted authors,
<code>person</code>	person vector of authors,
<code>title</code>	character with simple text title,
<code>texttitle</code>	character with LaTeX-formatted title (including proglang, pkg, etc.),
<code>plaintitle</code>	character with plain LaTeX-formatted title (without proglang, pkg, etc.),
<code>journal</code>	character with journal/section,
<code>year</code>	year of publication,
<code>month</code>	month of publication,
<code>volume</code>	volume,
<code>number</code>	issue,
<code>pages</code>	number of pages,
<code>url</code>	JSS URL,
<code>doi</code>	DOI,
<code>type</code>	type of publication (article, code snippet, book review, or software review),
<code>directory</code>	character with path to all files,
<code>package</code>	name of package(s) associated with the publication,
<code>rpackage</code>	logical indicating whether the publication is associated with an R package,
<code>readme</code>	character with path to <code>readme.txt</code> file (if any),
<code>rscript</code>	character with path to <code>.R</code> script (if any).

See Also

[bibentry](#), [person](#)

make_jss_cls	<i>Generate JSS LaTeX Style Files</i>
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Description

Utility functions for generating JSS's BibTeX style file (bst), LaTeX class file (cls), or a zipped archive with both files, manual, templates, logo, and further instructions.

Usage

```
make_jss_bst(dir = ".")
make_jss_cls(dir = ".", pdf = FALSE)
make_jss_style(dir = ".")
```

Arguments

dir	character specifying the output directory.
pdf	logical. Should the PDF documentation for the .cls file be generated as well?

make_metainfo	<i>Generate Files with Metainformation for JSS Publications</i>
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Description

Write selected elements of the metainformation from [jss](#) objects into text files.

Usage

```
make_metainfo(x = ".", ...)
make_citation(x = ".", ...)
make_readme(x = ".", ...)
make_crossref(x = ".", ..., deposit = TRUE)
make_ojs(x = ".", ...)
make_ojs2(x = ".", ...)
make_ojs3(x = ".", ...)
make_socialmedia(x = ".", density = 300, ...)
```

Arguments

x	an object of class jss or a character specifying the dir to be passed to jss.
...	arguments passed to format.jss .
deposit	logical. Should the metainformation be deposited with Crossref?
density	numeric. Resolution for rendering PDF to PNG.

Details

`make_citation` generates a CITATION file for inclusion in R packages.

`make_readme` generates a README.txt file for internal use in JSS.

`make_metainfo` generates both files and also tries to clean up and compact the manuscript LaTeX files.

`make_crossref` generates a CROSSREF.xml file for registering DOIs with CrossRef. If `$HOME/.crossref` exists and contains two lines (with login id and password, respectively), the XML is deposited automatically via `curl`.

`make_ojs2` and `make_ojs3` generate OJS.xml files for importing a new submission into OJS version 2 and 3, respectively. `make_ojs` creates an agnostic OJS.txt file.

See Also

[jss](#)

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