Package 'biblio'

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LazyData true
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compare_df comp_df-class detect_keys lib_df-class print read_bib reflist synopsis update write_bib

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compare_df

Compare data frames and libraries

Description

Report on differences between two versions of the same data frame or electronic library. When used for data frames, you need to indicate the variable containing IDs for each entry, while applied to lib_df objects, the variable 'bibtexkey' will be considered as ID per default.

The output printed in the console will advice about added and deleted entries in 'y' as well as any change in the entries common to both versions.

Usage

```
compare_df(x, y, key, ...)
## S4 method for signature 'data.frame,data.frame,character'
compare_df(x, y, key, ...)
## S4 method for signature 'lib_df,lib_df,missing'
compare_df(x, y, key, ...)
```

Arguments

x The reference data frame.

y The updated data frame.

key A character value with the name of the variable used as primary key in the tables.

... Further arguments passed among methods.

Value

A S3 object of class comp_df, which can be printed in the console by print().

See Also

```
update(), lib_df, comp_df
```

Examples

```
# Partially matching libraries
Refs1 <- synopsis[1:10, ]
Refs2 <- synopsis[6:15, ]
# some modification in second library
Refs2[3, "title"] <- "New Title"
# compare libraries</pre>
```

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```
compare_df(Refs1, Refs2)
```

comp_df-class

Compared libraries

Description

An S3 class for compared data frames. A list containing added, deleted entries on the regarding a key column and cells that are modified.

detect_keys

Detect bibtexkeys used in an r-markdown document

Description

This function screens a character vector (usually an imported r-markdown document) for the use of citations by bibtexkeys (@bibtexkey), retrieving the detected key with its occurrence in the vector, assuming each element as a line of the original document.

This function is based on bbt_detect_citations() from the package rbbt.

Usage

```
detect_keys(x, ...)
## S3 method for class 'character'
detect_keys(x, ...)
## S3 method for class 'rmd_doc'
detect_keys(x, ...)
```

Arguments

A character vector, a file imported by readLines() or an object imported by read_rmd(). If the character vector is the name of a Rmd file, readLines() will be internally called to read it.

... Further arguments passed among methods. In character-method they are passed to readLines().

Value

A data frame with two columns, bibtexkey for the found keys and line with the line number of the occurrence of the key in the document.

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Examples

```
## Read installed r-markdown document
my_document <- readLines(file.path(path.package("biblio"), "document.Rmd"))
## Screen for citations
cited_refs <- detect_keys(my_document)
cited_refs</pre>
```

lib_df-class

Electronic library

Description

An S3 class for library entries. This class inherits properties from data frames.

print

Print content of lib_df objects

Description

A method for a brief overview on the content of a lib_df or a comp_df object.

Usage

```
## S3 method for class 'lib_df'
print(x, ...)
## S3 method for class 'comp_df'
print(x, ...)
```

Arguments

x An object of class 'lib_df'.

... Further arguments passed among methods.

Author(s)

Miguel Alvarez

Examples

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read_bib

Read BibTeX Databases

Description

Reading BibTeX databases and importing into R as a data frame. All the fields will be inserted as character values.

Usage

```
read_bib(x, ...)
```

Arguments

x Path to BibTeX file.

... Further arguments passed to readLines.

Examples

```
Refs <- read_bib(x = file.path(path.package("biblio"),
   "LuebertPliscoff.bib"))
Refs</pre>
```

reflist

Write a Reference List in HTML

Description

A fast way to produce a reference list in an html document from a lib_df object.

This function may or may not produce intermediate files (bib and Rmd) and the result can be assigned to an object for further edition (see yamlme::update()).

A html file will be written by write_rmd() and render_rmd() in the working directory and displayed by browseURL().

Usage

```
reflist(x, ...)
## S4 method for signature 'lib_df'
reflist(
    x,
    filename = "references",
    bib_file,
    delete_rmd = FALSE,
```

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```
delete_bib = delete_rmd,
browse_file = TRUE,
title = "Automatic Reference List",
output = "html_document",
nocite = "'@*'",
urlcolor = "blue",
encoding = "UTF-8",
...
)

## $4 method for signature 'character'
reflist(x, filename = "references", ...)
```

Arguments

X	A lib_df object to produce the reference list. In the character method, a character value indicating the path of a bibtex file (passed to read_bib()).
	Further arguments passed to write_rmd() by the lib_df method, or to the lib_df method by the character method.
filename	A character value with the name for the written Rmd file, without file extension.
bib_file	A character value with the name for the written bibtex file. In the lib_df method it can be omitted and will then named by tempfile(). In the character method it is not required.
delete_rmd	A logical value indicating whether written Rmd file should be deleted after rendering html or not.
delete_bib	A logical value indicating whether written bib file should be deleted after rendering html or not.
browse_file	A logical value indicating whether the resulting html file should be opened in a browser or not.
title, output, nocite, urlcolor	
	Arguments used for the yaml-header in r-markdown and passed to write_rmd(). They can be cancelled using the value NULL (not recommended for nocite).
encoding	A character value indicating the encoding string. It is passed to write_bib().

Examples

```
## Not run:
reflist(synopsis)
## End(Not run)
```

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synopsis

References by Lueber and Pliscoff (2018)

Description

Example of an object formatted as lib_df. This library is published with the references of the book **Bioclimatic and vegetational synopsis of Chile** by Luebert and Pliscoff (2017).

Usage

synopsis

Format

An object of class lib_df (inherits from data.frame) with 1701 rows and 23 columns.

Source

10.5281/zenodo.60800

Examples

```
data(synopsis)
## Import from installed bibtex file
synopsis <- read_bib(x = file.path(path.package("biblio"),
    "LuebertPliscoff.bib"))</pre>
```

update

Update data frames

Description

This function compares two versions of the same data frame and detect changes as additions, deleted entries or updates (modified entries).

A method to compare lib_df objects is also provided as well as a replace method.

Usage

```
## S3 method for class 'data.frame'
update(object, revision, key, delete = FALSE, add = FALSE, update = FALSE, ...)
## S3 method for class 'lib_df'
update(
  object,
```

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```
revision,
  key = "bibtexkey",
  delete = FALSE,
  add = FALSE,
  update = FALSE,
)
update(object, ...) <- value</pre>
## S4 replacement method for signature 'data.frame,data.frame'
update(object, key, delete = FALSE, add = FALSE, update = FALSE, ...) <- value
## S4 replacement method for signature 'lib_df,lib_df'
update(
  object,
  key = "bibtexkey",
  delete = FALSE,
  add = FALSE,
  update = FALSE,
) <- value
```

Arguments

object A data frame or a lib_df object representing the original version.

revision The updated version of 'object' to be compared.

key A character value indicating the column used as identifier. This variable have to

be in both versions otherwise this function will retrieve an error.

delete, add, update

A character value indicating whether the action should be carried out. If all are

'FALSE', this function will just report differences as done by compare_df.

... Further arguments passed among methods.

value The updated version of 'object' in the replace methods.

Examples

```
# modifying the data set iris
data(iris)
iris$id <- 1:nrow(iris) # ID column added

# rows to add using mean values per species
iris_mod <- aggregate(cbind(Sepal.Length, Sepal.Width, Petal.Length,
        Petal.Width) ~ Species, data = iris, FUN = mean)
iris_mod$id <- (1:nrow(iris_mod)) + nrow(iris)
iris_mod <- do.call(rbind, list(iris, iris_mod[ , colnames(iris)]))

# delete some entries
iris_mod <- iris_mod[-c(15, 75, 105, 145), ]</pre>
```

write_bib

write_bib

Write BibTeX Files

Description

BibTeX databases can be created from data frames, interacting with Postgres databases.

Usage

```
write_bib(x, ...)
## S3 method for class 'lib_df'
write_bib(x, file, encoding = "UTF-8", ...)
```

Arguments

x A data frame with bibliographic entries.

... Further arguments passed to file.

file A character value with the path and the name of the file to be written.

encoding Character value with the encoding (passed to file).

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