Package 'xlsx2dfs'

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Type Package

Title Read and Write 'Excel' Sheets into and from List of Data Frames

Version 0.1.0

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Description Reading and writing sheets of a single 'Excel' file into and from a list of data frames. Eases I/O of tabular data in bioinformatics while keeping them in a human readable format.

Depends openxlsx

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Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

`dfs2xlsx` *Write a list of data frames into an excel file with each data frame in a new sheet and the list element name as its sheet name.*

Description

Write a list of data frames into an excel file with each data frame in a new sheet and the list element name as its sheet name.

Usage

```
dfs2xlsx(dfs, fpath, rowNames = TRUE, colNames = TRUE)
```

Arguments

`dfs`	A list of data frames (names in the list are the names of the sheets).
`fpath`	A character string representing path and filename of the output.
`rowNames`	A boolean indicating whether the first column of a table in every sheet contains row names of the table.
`colNames`	A boolean indicating whether the first line of a table in every sheet contains a header.

Value

Nothing. Writes out data frames into specified Excel file.

Examples

```
df1 <- data.frame(A=c(1, 2), B=c(3, 4))
df2 <- data.frame(C=c(5, 6), D=c(7, 8))
xlsx_fpath <- file.path(tempdir(), "testout.xlsx")
dfs2xlsx(withNames("sheet1", df1, "sheet2", df2), xlsx_fpath)
file.remove(xlsx_fpath)
```

`withNames` *Helper function for more convenient input (sheet name, data frame, sheet name, data frame, ...).*

Description

Helper function for more convenient input (sheet name, data frame, sheet name, data frame, ...).

Usage

```
withNames(...)
```

Arguments

...	alterning arguments: sheet name 1, data frame 1, sheet name 2, data frame 2, ...

Value

A list of the data frames with the names given each before.

Examples

```
df1 <- data.frame(A=c(1, 2), B=c(3, 4))
df2 <- data.frame(C=c(5, 6), D=c(7, 8))
xlsx_fpath <- file.path(tempdir(), "testout.xlsx")
dfs2xlsx(withNames("sheet1", df1, "sheet2", df2), xlsx_fpath)
file.remove(xlsx_fpath)
```

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xlsx2dfs *Read-in Excel file (workbook) as a list of data frames.*

Description

Read-in Excel file (workbook) as a list of data frames.

Usage

```
xlsx2dfs(xlsxPath, rowNames = TRUE, colNames = TRUE, ...)
```

Arguments

xlsxPath	A path to the Excel file, a character.
rowNames	Whether to read-in row names, a boolean.
colNames	Whether to read-in column names, a boolean.
...	... passed to read.xlsx function in the openxlsx package.

Value

A list of data frames, each representing a sheet in the Excel file (sheet names are list element names).

Examples

```
# create example file
df1 <- data.frame(A=c(1, 2), B=c(3, 4))
df2 <- data.frame(C=c(5, 6), D=c(7, 8))
xlsx_fpath <- file.path(tempdir(), "testout.xlsx")
dfs2xlsx(withNames("sheet1", df1, "sheet2", df2), xlsx_fpath)
# read created file
dfs <- xlsx2dfs(xlsx_fpath)
file.remove(xlsx_fpath)
```

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