

# 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

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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| dfs2xlsx | <i>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.</i> |
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### 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)
```

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|-----------|---|
| withNames | <i>Helper function for more convenient input (sheet name, data frame, sheet name, data frame, ...).</i> |
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### Description

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

### Usage

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

**Arguments**

... alternating 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.*


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**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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