

Package ‘xlsimple’

March 22, 2017

Type Package

Title 'XLConnect' Wrapper

Description Provides a simple wrapper for some 'XLConnect' functions. 'XLConnect' is a package that allows for reading, writing, and manipulating Microsoft Excel files. This package, 'xlsimple', adds some documentation and pre-defined formatting to the outputted Excel file. Individual sheets can include a description on the first row to remind user what is in the data set. Auto filters and freeze rows are turned on. A brief readme file is created that provides a summary listing of the created sheets and, where provided, the description.

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License GPL-3

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LazyData TRUE

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Suggests XLConnect, knitr

NeedsCompilation no

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 addXLsheetStd

Add a sheet to the Excel workbook

Description

Add a sheet to the Excel workbook

Usage

```
addXLsheetStd(wbList = XL.wb, df = NA, sheetName = NA, descrip = NA)
```

Arguments

wbList	list with workbook and default cell styles (i.e., output from getXLsettings)
df	data frame to output to sheet
sheetName	sheet name
descrip	description of sheet

Details

The sheetName is the name that will be used for the sheet. When sheetName is not specified, the name of the df will be used. The descrip is a character string that will be placed into cell A1 of the sheet and is best used to provide a brief description of the sheet; and the dataframe will begin at cell A3. If descrip is not specified, then the dataframe will begin at cell A1. The outputted table will have filters turned on and table headers and first column frozen.

Value

list with workbook and default cell styles

Examples

```
XL.wb <- getXLsettings()
XL.wb <- addXLsheetStd(XL.wb, mtcars)
XL.wb <- addXLsheetStd(XL.wb, mtcars, "mtcars1")
XL.wb <- addXLsheetStd(XL.wb, mtcars, "mtcars2", "Standard mtcars data frame")
XL.wb$pNet <- "ProjName" # optional, blank if not included
XL.wb$pNet <- "ProjDesc" # optional, blank if not included
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=FALSE, clean=FALSE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=TRUE, clean=FALSE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=TRUE, clean=TRUE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx')
```

getXLsettings	<i>Get Default Excel cell styles</i>
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Description

Get Default Excel cell styles

Usage

```
getXLsettings(fname = NA)
```

Arguments

fname	Excel file name
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Details

If no Excel file is specified then the built in cell styles are used. User-supplied Excel file would need to have the following cell styles specified: xl.descrip, xl.normal, xl.header, xl.header.wrap, xl.hyperlink.

Value

list with workbook and default cell styles

Examples

```
XL.wb <- getXLsettings()
XL.wb <- addXLsheetStd(XL.wb, mtcars)
XL.wb <- addXLsheetStd(XL.wb, mtcars, "mtcars1")
XL.wb <- addXLsheetStd(XL.wb, mtcars, "mtcars2", "Standard mtcars data frame")
XL.wb$pname <- "ProjName" # optional, blank if not included
XL.wb$pdesc <- "ProjDesc" # optional, blank if not included
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=FALSE, clean=FALSE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=TRUE, clean=FALSE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=TRUE, clean=TRUE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx')
```

readXLworkbook	<i>Load a full MS Excel File</i>
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Description

Given a MS Excel File it loads the full workbook creating as many variables as sheets exists in the workbook.

Usage

```
readXLworkbook(filename, environment = parent.frame(), verbose = TRUE,
  free.warnings = TRUE)
```

Arguments

filename	The path and the name to the MS Excel File.
environment	Environment where the new variables will be located. By default is parent environment.
verbose	If set to TRUE useful messages are shown.
free.warnings	If set to TRUE it shows any warnings result of loading the content of the book's sheets.

Details

This function was developed by Carles Hernandez-Ferrer
https://github.com/carleshf/loadxls/blob/master/R/read_all.R

saveXLworkbook	<i>Save Excel Workbook to disk</i>
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Description

Save Excel Workbook to disk

Usage

```
saveXLworkbook(wbList, fname = "xl.Out.xlsx", timeStamp = FALSE,
  clean = TRUE)
```

Arguments

wbList	list with workbook and default cell styles (i.e., output from getXLsettings)
fname	Excel file name
timeStamp	Logical field to include date/time stamp in file name (TRUE [default]).
clean	Logical field indicating whether to remove original sheets in workbook

Value

n/a

Examples

```
XL.wb <- getXLsettings()
XL.wb <- addXLsheetStd(XL.wb, mtcars)
XL.wb <- addXLsheetStd(XL.wb, mtcars, "mtcars1")
XL.wb <- addXLsheetStd(XL.wb, mtcars, "mtcars2", "Standard mtcars data frame")
XL.wb$pname <- "ProjName" # optional, blank if not included
XL.wb$pdesc <- "ProjDesc" # optional, blank if not included
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=FALSE, clean=FALSE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=TRUE, clean=FALSE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx', timeStamp=TRUE, clean=TRUE)
saveXLworkbook(XL.wb, 'myXLfile.xlsx')
```

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