

Package ‘tablexlsx’

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Type Package

Title Export Data Frames to Excel Workbook

Version 1.1.0

Description Collection of functions that allow to export data frames to excel workbook.

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Encoding UTF-8

LazyData true

URL <https://ddotta.github.io/tablexlsx/>,
<https://github.com/ddotta/tablexlsx>

BugReports <https://github.com/ddotta/tablexlsx/issues>

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Depends R (>= 2.10)

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add_table	<i>Function that adds a data frame to an (existing) .xlsx workbook sheet</i>
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Description

Function that adds a data frame to an (existing) .xlsx workbook sheet

Usage

```
add_table(
  Table,
  WbTitle,
  SheetTitle,
  TableTitle,
  StartRow = 1,
  StartCol = 1,
  FormatList = setNames(rep(list(Theme[["character"]]), length(colnames(Table))),
    colnames(Table)),
  Theme = xls_theme_default(),
  HeightTableTitle = 2,
  TableFootnote1 = "",
  TableFootnote2 = "",
  TableFootnote3 = "",
  MergeCol = character(0),
  ByGroup = character(0),
  GroupName = FALSE,
  asTable = FALSE
)
```

Arguments

Table	: data frame to be exported to the workbook sheet
WbTitle	: workbook
SheetTitle	: string used for the sheet's name
TableTitle	: string used for the data frame's title
StartRow	: export start line number in the sheet (by default 1)
StartCol	: export start column number in the sheet (by default 1)
FormatList	: list that indicates the format of each column of the data frame
Theme	: styling theme, a named list of 'openxlsx' Styles
HeightTableTitle	: multiplier (if needed) for the height of the title line (by default 2)
TableFootnote1	: string for TableFootnote1
TableFootnote2	: string for TableFootnote2

- TableFootnote3 : string for TableFootnote3
- MergeCol : character vector that indicates the columns for which to merge the modalities
- ByGroup character vector indicating the name of the columns by which to group
- GroupName boolean indicating whether the name of the grouping variable should be written
- asTable logical indicating if data should be written as an Excel Table (FALSE by default)

Value

excel wb object

style	<i>An R list that contains the styles of each element for formatting data frames in excel files</i>
-------	---

Description

An R list that contains the styles of each element for formatting data frames in excel files

Usage

style

Format

A list of several items

- title** Style for title
- footnote1** Style for footnote1
- footnote2** Style for footnote2
- footnote3** Style for footnote3
- col_header** Style for col_header
- character** Style for columns in character format
- number** Style for columns in number format
- decimal** Style for columns in character format with decimals
- percent** Style for columns in percent format

toxlsx

*Convert R data frames to excel files***Description**

This function allows you to write R data frames given in the ‘object’ argument to excel files located in the ‘path’ directory. The function takes several arguments but the only two required are ‘object’ and ‘path’.

See examples gallery : <<https://ddotta.github.io/tablexlsx/articles/aa-examples.html>>

Usage

```
toxlsx(
  object,
  path,
  tosheet = list(),
  title = list(),
  columnstyle = list(default = NULL),
  theme = xls_theme_default(),
  footnote1 = list(),
  footnote2 = list(),
  footnote3 = list(),
  mergeacol = NULL,
  bygroup = list(),
  groupname = FALSE,
  filename = "Export",
  asTable = FALSE,
  automaticopen = FALSE
)
```

Arguments

object	data.frame to be converted to excel
path	path to save excel file (either a directory name or a file name with full path)
tosheet	list of sheet names for each element of object. If omitted, sheets are named by default "Sheet 1", "Sheet 2"...
title	list of title for each element of object If omitted, title takes the name of the dataframe in ‘object’
columnstyle	list of style for columns of each element of object Only useful if you want to customise the style of each column ‘
theme	styling theme, a named list of ‘openxlsx’ Styles
footnote1	list of footnote1 for each element of object If omitted, no footnote1
footnote2	list of footnote2 for each element of object If omitted, no footnote2
footnote3	list of footnote3 for each element of object If omitted, no footnote3

mergecol	list of character vectors that indicate the columns for which we want to merge the modalities
bygroup	list of character vectors indicating the names of the columns by which to group
groupname	list of booleans indicating whether the names of the grouping variables should be written
filename	name for the excel file ("Export" by default). Ignored if 'path' is a file name.
asTable	logical indicating if data should be written as an Excel Table (FALSE by default)
automaticopen	logical indicating if excel file should open automatically (FALSE by default)

Value

an excel file

Examples

```
# Simply export a data frame to an xlsx file
# For more examples, see examples gallery :
# https://ddotta.github.io/tablexlsx/articles/aa-examples.html
## Not run:
toxlsx(object = iris, path = tempdir())

## End(Not run)
```

xls_theme

Constructor function for xls themes

Description

This function creates an xls theme for styling exported tables. All its arguments must be 'openxlsx' Style objects.

Usage

```
xls_theme(
  title,
  col_header,
  character,
  footnote1,
  footnote2,
  footnote3,
  mergedcell,
  ...
)
```

Arguments

title	Style for the title
col_header	Style for the columns header
character	Default style for data cells
footnote1	Style for footnote1
footnote2	Style for footnote2
footnote3	Style for footnote3
mergedcell	Style for merged cells
...	Other (named) custom styles

Value

a named list of class `xls_theme`, whose elements are ‘openxlsx’ Style objects.

See Also

`xls_theme_plain()`, `xls_theme_default()`

Examples

```
my_theme <- xls_theme(
  title = openxlsx::createStyle(),
  col_header = openxlsx::createStyle(),
  character = openxlsx::createStyle(),
  footnote1 = openxlsx::createStyle(),
  footnote2 = openxlsx::createStyle(),
  footnote3 = openxlsx::createStyle(),
  mergedcell = openxlsx::createStyle()
)

## Not run:
toxlsx(object = iris, path = tempdir(), theme = my_theme)

## End(Not run)
```

`xls_theme_default`

Constructor function for the default xls theme

Description

This function is a wrapper around `[xls_theme()]` that creates an xls theme for styling exported tables. It defines a theme with sensible default formatting values. It also defines custom styles for "number", "decimal" and "percent" column types. All its arguments must be ‘openxlsx’ Style objects.

Usage

```

xls_theme_default(
  title = openxlsx::createStyle(fontSize = 16, textDecoration = "bold"),
  footnote1 = openxlsx::createStyle(fontSize = 12),
  footnote2 = openxlsx::createStyle(fontSize = 12),
  footnote3 = openxlsx::createStyle(fontSize = 12),
  col_header = openxlsx::createStyle(fontSize = 12, textDecoration = "bold", border =
    c("top", "bottom", "left", "right"), borderStyle = "thin", wrapText = TRUE, halign =
      "center"),
  character = openxlsx::createStyle(fontSize = 12, border = c("top", "bottom", "left",
    "right"), borderStyle = "thin"),
  number = openxlsx::createStyle(fontSize = 12, numFmt = "### ### ##0", border =
    c("top", "bottom", "left", "right"), borderStyle = "thin"),
  decimal = openxlsx::createStyle(fontSize = 12, numFmt = "### ### ##0.0", border =
    c("top", "bottom", "left", "right"), borderStyle = "thin"),
  percent = openxlsx::createStyle(fontSize = 12, numFmt = "#0.0", border = c("top",
    "bottom", "left", "right"), borderStyle = "thin", halign = "center"),
  mergedcell = openxlsx::createStyle(fontSize = 12, border = c("top", "bottom", "left",
    "right"), borderStyle = "thin", wrapText = TRUE, valign = "center", halign =
      "center"),
  ...
)

```

Arguments

title	Style for the title
footnote1	Style for footnote1
footnote2	Style for footnote2
footnote3	Style for footnote3
col_header	Style for the columns header
character	Default style for data cells
number	Style for columns in number format
decimal	Style for columns in decimal format
percent	Style for columns in percent format
mergedcell	Style for merged cells
...	Other (named) custom styles

Value

a named list of class `xls_theme`, whose elements are ‘openxlsx’ Style objects.

See Also

[xls_theme\(\)](#), [xls_theme_plain\(\)](#)

Examples

```
# default theme
xls_theme_default()

# default theme with title in italic
my_theme <- xls_theme_default(title = openxlsx::createStyle(textDecoration = "italic"))

## Not run:
toxlsx(object = iris, path = tempdir(), theme = my_theme)

## End(Not run)
```

xls_theme_plain	<i>Constructor function for a plain xls theme</i>
-----------------	---

Description

This function is a wrapper around [xls_theme()] that creates an xls theme for styling exported tables. It defines a simple theme whith no special formatting. All its arguments must be ‘openxlsx’ Style objects.

Usage

```
xls_theme_plain(
  title = openxlsx::createStyle(),
  col_header = openxlsx::createStyle(),
  character = openxlsx::createStyle(),
  footnote1 = openxlsx::createStyle(),
  footnote2 = openxlsx::createStyle(),
  footnote3 = openxlsx::createStyle(),
  mergedcell = openxlsx::createStyle(),
  ...
)
```

Arguments

title	Style for the title
col_header	Style for the columns header
character	Default style for data cells
footnote1	Style for footnote1
footnote2	Style for footnote2
footnote3	Style for footnote3
mergedcell	Style for merged cells
...	Other (named) custom styles

Value

a named list of class `xls_theme`, whose elements are ‘openxlsx’ Style objects.

See Also

[xls_theme\(\)](#), [xls_theme_default\(\)](#)

Examples

```
# plain theme
xls_theme_plain()

# plain theme with title in bold
my_theme <- xls_theme_plain(title = openxlsx::createStyle(textDecoration = "bold"))

## Not run:
toxlsx(object = iris, path = tempdir(), theme = my_theme)

## End(Not run)
```

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