Package 'flextable'

June 25, 2019

Type Package

Title Functions for Tabular Reporting

Version 0.5.5

Description Create pretty tables for 'HTML', 'Microsoft Word' and 'Microsoft PowerPoint' documents. Functions are provided to let users create tables, modify and format their content. It extends package 'officer' that does not contain any feature for customized tabular reporting and can be used within R markdown documents.

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LazyData TRUE

Imports stats, utils, grDevices, graphics, officer (>= 0.2.0), rmarkdown, knitr, htmltools, xml2, data.table, gdtools (>= 0.1.6), rlang, base64enc

RoxygenNote 6.1.1

Suggests testthat, xtable, magrittr, webshot, magick, ggplot2

Encoding UTF-8

URL https://davidgohel.github.io/flextable

BugReports https://github.com/davidgohel/flextable/issues

VignetteBuilder knitr

NeedsCompilation no

Author David Gohel [aut, cre],

Quentin Fazilleau [ctb],

Maxim Nazarov [ctb] (rmarkdown for docx output),

Titouan Robert [ctb]

Maintainer David Gohel <david.gohel@ardata.fr>

Repository CRAN

Date/Publication 2019-06-25 09:20:03 UTC

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flextable-package flextable: Functions for Tabular Reporting

Description

The flextable package facilitates access to and manipulation of tabular reporting elements from R.

The documentation of functions can be opened with command help(package = "flextable").

To learn more about flextable, start with the vignettes: browseVignettes(package = "flextable").

flextable() function is producing flexible tables where each cell can contain several chunks of text with their own set of formatting properties (bold, font color, etc.). Function compose lets customise text of cells.

See Also

```
https://davidgohel.github.io/flextable/, flextable
```

add_header

Add a rows of labels in header or footer part

Description

Add rows of labels in the flextable's header or footer part. It can be inserted at the top or the bottom of the part. The function is column oriented, labels are specified for each columns, there can be more than a label - resulting in more than a new row.

Usage

```
add_header(x, top = TRUE, ..., values = NULL)
add_footer(x, top = TRUE, ..., values = NULL)
```

Arguments

x a flextable object
 top should the row be inserted at the top or the bottom.
 ... a named list (names are data colnames) of strings specifying corresponding labels to add.
 values a list of name-value pairs of labels or values, names should be existing col_key values. If values is supplied argument ... is ignored.

Note

when repeating values, they can be merged together with function merge_h and merge_v.

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See Also

Other headers and footers: add_header_lines, add_header_row, set_header_footer_df

Examples

```
ft <- flextable( head( iris ),</pre>
   col_keys = c("Species", "Sepal.Length", "Petal.Length",
                 "Sepal.Width", "Petal.Width") )
# start with no header
ft <- delete_part(ft, part = "header")</pre>
# add a line of row
ft <- add_header(x = ft, Sepal.Length = "length",
   Sepal.Width = "width", Petal.Length = "length",
   Petal.Width = "width", Species = "Species", top = FALSE )
# add another line of row at the top position
ft <- add_header(ft, Sepal.Length = "Inches",</pre>
   Sepal.Width = "Inches", Petal.Length = "Inches",
   Petal.Width = "Inches", top = TRUE )
# merge horizontally when there are identical values
ft <- merge_h(ft, part = "header")</pre>
# add a footnote in the footer part
ft <- add_footer(ft, Species = "This is a footnote" )</pre>
ft \leftarrow merge_at(ft, j = 1:5, part = "footer")
# theme the table
ft <- theme_box(ft)</pre>
ft
```

add_header_lines

Add a label in a header or footer new row.

Description

Add an header or footer new row made of one cell. This is a sugar function to be used when you need to add a title row to a flextable, most of the time it will be used in a context of adding a footnote or adding a title on the top line of the flextable.

```
add_header_lines(x, values = character(0), top = TRUE)
add_footer_lines(x, values = character(0), top = FALSE)
```

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Arguments

x a flextable object

values a character vector, each element will be added a a new row in the header or

footer part.

top should the row be inserted at the top or the bottom.

See Also

Other headers and footers: add_header_row, add_header, set_header_footer_df

Examples

```
ft <- flextable( head( iris ) )
ft <- add_footer_lines(ft, values = "blah blah")
ft <- add_footer_lines(ft, values = c("blah 1", "blah 2"))
autofit(ft)
ft <- flextable( head( iris ) )
ft <- add_header_lines(ft, values = "blah blah")
ft <- add_header_lines(ft, values = c("blah 1", "blah 2"))
autofit(ft)</pre>
```

add_header_row

Add labels and merge cells in a new header or footer row

Description

Add an header or footer new row where some cells are merged, labels are associated with a number of columns to merge. The function is row oriented. One call allow to add one single row.

Usage

```
add_header_row(x, top = TRUE, values = character(0),
    colwidths = integer(0))

add_footer_row(x, top = TRUE, values = character(0),
    colwidths = integer(0))
```

Arguments

x a flextable object

top should the row be inserted at the top or the bottom.

values values to add as a character vector

colwidths the number of columns to merge in the row for each label

See Also

Other headers and footers: add_header_lines, add_header, set_header_footer_df

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Examples

```
ft <- flextable( head( iris ) )
ft <- add_header_row(ft, values = "blah blah", colwidths = 5)
ft <- add_header_row(ft, values = c("blah", "blah"), colwidths = c(3,2))
ft
ft <- flextable( head( iris ) )
ft <- add_footer_row(ft, values = "blah blah", colwidths = 5)
ft <- add_footer_row(ft, values = c("blah", "blah"), colwidths = c(3,2))
ft</pre>
```

align

Set text alignment

Description

change text alignment of selected rows and columns of a flextable.

Usage

```
align(x, i = NULL, j = NULL, align = "left", part = "body")
align_text_col(x, align = "left", header = TRUE, footer = TRUE)
align_nottext_col(x, align = "right", header = TRUE, footer = TRUE)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection
align	text alignment - a single character value, expected value is one of 'left', 'right', 'center', 'justify'.
part	partname of the table (one of 'all', 'body', 'header', 'footer')
header	should the header be aligned with the body
footer	should the footer be aligned with the body

See Also

```
Other sugar functions for table style: bg, bold, color, empty_blanks, fontsize, font, italic, padding, rotate, valign
```

Other sugar functions for table style: bg, bold, color, empty_blanks, fontsize, font, italic, padding, rotate, valign

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Examples

```
ft <- flextable(mtcars)
ft <- align(ft, align = "center")
ft <- flextable(mtcars)
ft <- align_text_col(ft, align = "left")
ft <- align_nottext_col(ft, align = "right")
ft</pre>
```

as_b

bold chunk

Description

The function is producing a chunk with bold font.

Usage

 $as_b(x)$

Arguments

Х

value, if a chunk, the chunk will be updated

Note

This is a sugar function that ease the composition of complex labels made of different formattings. It should be used inside a call to as_paragraph.

See Also

Other chunk elements for paragraph: as_bracket, as_chunk, as_image, as_i, as_sub, as_sup, hyperlink_text, linerange, minibar

```
ft <- flextable( head(iris), col_keys = c("dummy") )
ft <- compose(ft, j = "dummy",
    value = as_paragraph(
        as_b(Sepal.Length)
    ) )
autofit(ft)</pre>
```

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as_bracket

chunk with values in brackets

Description

The function is producing a chunk by pasting values and add the result in brackets. It should be used inside a call to as_paragraph.

Usage

```
as_bracket(..., sep = ", ", p = "(", s = ")")
```

Arguments

```
text and column names
sep
separator
p prefix, default to '('
s suffix, default to ')'
```

See Also

Other chunk elements for paragraph: as_b, as_chunk, as_image, as_i, as_sub, as_sup, hyperlink_text, linerange, minibar

Examples

```
ft <- flextable( head(iris),
  col_keys = c("Species", "Sepal", "Petal") )
ft <- set_header_labels(ft, Sepal="Sepal", Petal="Petal")
ft <- compose(ft, j = "Sepal",
  value = as_paragraph( as_bracket(Sepal.Length, Sepal.Width) ) )
ft <- compose(ft, j = "Petal",
  value = as_paragraph( as_bracket(Petal.Length, Petal.Width) ) )
autofit(ft)</pre>
```

as_chunk

chunk of text wrapper

Description

The function lets add text within flextable objects with function compose. It should be used inside a call to as_paragraph.

```
as\_chunk(x, props = NULL, formater = format\_fun, ...)
```

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Arguments

text or any element that can be formatted as text with function provided in argument formater.
 props an fp_text object to be used to format the text. If not specified, it will be the default value corresponding to the cell.
 formater a function that will format x as a character vector.
 additional arguments for formater function.

See Also

Other chunk elements for paragraph: as_bracket, as_b, as_image, as_i, as_sub, as_sup, hyperlink_text, linerange, minibar

Examples

```
library(officer)

myft <- flextable( head(iris))

myft <- compose( myft, j = "Sepal.Length",
    value = as_paragraph(
        "Sepal.Length value is ",
        as_chunk(Sepal.Length, props = fp_text(color = "red"))
    ),
    part = "body")

myft <- color(myft, color = "gray40", part = "all")
autofit(myft)</pre>
```

as_flextable

method to convert object to flextable

Description

This is a convenient function to let users create flextable bindings from any objects.

Usage

```
as_flextable(x, ...)
## S3 method for class 'grouped_data'
as_flextable(x, col_keys = NULL, ...)
```

Arguments

x object to be transformed as flextable
 ... arguments for custom methods
 col_keys columns names/keys to display. If some column names are not in the dataset, they will be added as blank columns by default.

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Examples

```
# as_flextable and as_grouped_data -----
if( require("magrittr")){
 library(data.table)
 CO2 <- CO2
 setDT(CO2)
 CO2$conc <- as.integer(CO2$conc)</pre>
 data_co2 <- dcast(CO2, Treatment + conc ~ Type,</pre>
                    value.var = "uptake", fun.aggregate = mean)
 data_co2 <- as_grouped_data(x = data_co2, groups = c("Treatment"))</pre>
 zz <- as_flextable( data_co2 ) %>%
    add_footer_lines("dataset CO2 has been used for this flextable") %>%
   add_header_lines("mean of carbon dioxide uptake in grass plants") %>%
    set_header_labels(conc = "Concentration") %>%
   autofit() %>%
   width(width = c(1, 1, 1))
}
```

as_grouped_data

grouped data transformation

Description

Repeated consecutive values of group columns will be used to define the title of the groups and will be added as a row title.

Usage

```
as_grouped_data(x, groups, columns = NULL)
```

Arguments

x datasetgroups columns names to be used as row separators.columnscolumns names to keep

See Also

```
as_flextable
```

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Examples

```
# as_grouped_data -----
library(data.table)
CO2 <- CO2
setDT(CO2)
CO2$conc <- as.integer(CO2$conc)

data_co2 <- dcast(CO2, Treatment + conc ~ Type,
   value.var = "uptake", fun.aggregate = mean)
data_co2
data_co2 <- as_grouped_data(x = data_co2, groups = c("Treatment"))
data_co2</pre>
```

as_i

italic chunk

Description

The function is producing a chunk with italic font.

Usage

 $as_i(x)$

Arguments

Х

value, if a chunk, the chunk will be updated

Note

This is a sugar function that ease the composition of complex labels made of different formattings. It should be used inside a call to as_paragraph.

See Also

Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_image, as_sub, as_sup, hyperlink_text, linerange, minibar

```
ft <- flextable( head(iris), col_keys = c("dummy") )
ft <- compose(ft, j = "dummy",
    value = as_paragraph(
        as_i(Sepal.Length)
    ) )
autofit(ft)</pre>
```

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as_image

image chunk wrapper

Description

The function lets add images within flextable objects with function compose. It should be used inside a call to as_paragraph.

Usage

```
as_image(src, width = 0.5, height = 0.2, ...)
```

Arguments

```
src image filenamewidth, height size of the png file in inchesunused argument
```

Note

PowerPoint cannot mix images and text in a paragraph, images are removed when outputing to PowerPoint format.

See Also

```
compose, as_paragraph
```

Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_i, as_sub, as_sup, hyperlink_text, linerange, minibar

```
img.file <- file.path( R.home("doc"), "html", "logo.jpg" )
library(officer)

myft <- flextable( head(iris))

myft <- compose( myft, i = 1:3, j = 1,
    value = as_paragraph(
    as_image(src = img.file, width = .20, height = .15),
    " blah blah ",
    as_chunk(Sepal.Length, props = fp_text(color = "red"))
),
    part = "body")

autofit(myft)</pre>
```

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as_paragraph

concatenate chunks in a flextable

Description

The function is concatenating text and images within paragraphs of a flextable object, this function is to be used with function compose.

Usage

```
as_paragraph(..., list_values = NULL)
```

Arguments

... chunk elements that are defining paragraph

list_values a list of chunk elements that are defining paragraph. If specified argument . . . is unused.

See Also

```
as_chunk, minibar, as_image, hyperlink_text
```

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as_raster

get a flextable as a raster

Description

save a flextable as an image and return the corresponding raster. This function has been implemented to let flextable be printed on a ggplot object.

Usage

```
as_raster(x, zoom = 2, expand = 2)
```

Arguments

```
x a flextable objectzoom, expand parameters used by webshot function.
```

Note

This function requires packages: webshot and magick.

See Also

Other flextable print function: docx_value, format.flextable, htmltools_value, knit_print.flextable, plot.flextable, print.flextable, save_as_html, save_as_image

Examples

```
ft <- qflextable( head( mtcars ) )
## Not run:
if( require("ggplot2") && require("webshot") ){
  print(qplot(speed, dist, data = cars, geom = "point"))
  grid::grid.raster(as_raster(ft))
}
## End(Not run)</pre>
```

as_sub

subscript chunk

Description

The function is producing a chunk with subscript vertical alignment.

```
as_sub(x)
```

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Arguments

Х

value, if a chunk, the chunk will be updated

Note

This is a sugar function that ease the composition of complex labels made of different formattings. It should be used inside a call to as_paragraph.

See Also

Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_image, as_i, as_sup, hyperlink_text, linerange, minibar

Examples

```
ft <- flextable( head(iris), col_keys = c("dummy") )
ft <- compose(ft, i = 1, j = "dummy", part = "header",
    value = as_paragraph(
        as_sub("Sepal.Length"),
        " anything "
        ) )
autofit(ft)</pre>
```

as_sup

superscript chunk

Description

The function is producing a chunk with superscript vertical alignment.

Usage

```
as_sup(x)
```

Arguments

Х

value, if a chunk, the chunk will be updated

Note

This is a sugar function that ease the composition of complex labels made of different formattings. It should be used inside a call to as_paragraph.

See Also

```
Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_image, as_i, as_sub, hyperlink_text, linerange, minibar
```

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Examples

```
ft <- flextable( head(iris), col_keys = c("dummy") )
ft <- compose(ft, i = 1, j = "dummy", part = "header",
    value = as_paragraph(
        " anything ",
        as_sup("Sepal.Width")
    ) )
autofit(ft)</pre>
```

autofit

Adjusts cell widths and heights

Description

compute and apply optimized widths and heights. This function is to be used when the table widths and heights should automatically be adjusted to fit the size of the content.

Usage

```
autofit(x, add_w = 0.1, add_h = 0.1)
```

Arguments

```
x flextable object
add_w extra width to add in inches
add_h extra height to add in inches
```

See Also

Other flextable dimensions: dim.flextable, dim_pretty, fit_to_width, flextable_dim, height, width

```
ft <- flextable(mtcars)
ft <- autofit(ft)
ft</pre>
```

body_add_flextable

bg

Set background color

Description

change background color of selected rows and columns of a flextable.

Usage

```
bg(x, i = NULL, j = NULL, bg, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
bg color to use as background color
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other sugar functions for table style: align, bold, color, empty_blanks, fontsize, font, italic, padding, rotate, valign

Examples

```
ft <- flextable(mtcars)
ft <- bg(ft, bg = "#DDDDDD", part = "header")</pre>
```

body_add_flextable

add flextable into a Word document

Description

add a flextable into a Word document.

```
body_add_flextable(x, value, align = "center", pos = "after",
    split = FALSE)

body_replace_flextable_at_bkm(x, bookmark, value, align = "center",
    split = FALSE)
```

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Arguments

Х	an rdocx object
value	flextable object
align	left, center (default) or right.
pos	where to add the flextable relative to the cursor, one of "after", "before", "on" (end of line).
split	set to TRUE if you want to activate Word option 'Allow row to break across pages'.
bookmark	bookmark id

body_replace_flextable_at_bkm

Use this function if you want to replace a paragraph containing a bookmark with a flextable. As a side effect, the bookmark will be lost.

Examples

```
library(officer)
ft <- flextable(head(mtcars))
ft <- theme_zebra(ft)
ft <- autofit(ft)
doc <- read_docx()
doc <- body_add_flextable(doc, value = ft)
fileout <- tempfile(fileext = ".docx")
# fileout <- "test.docx" # uncomment to write in your working directory
print(doc, target = fileout)</pre>
```

bold

Set bold font

Description

change font weight of selected rows and columns of a flextable.

Usage

```
bold(x, i = NULL, j = NULL, bold = TRUE, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
bold boolean value
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

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See Also

Other sugar functions for table style: align, bg, color, empty_blanks, fontsize, font, italic, padding, rotate, valign

Examples

```
ft <- flextable(mtcars)
ft <- bold(ft, bold = TRUE, part = "header")</pre>
```

border

Set cell borders

Description

change borders of selected rows and columns of a flextable.

Usage

```
border(x, i = NULL, j = NULL, border = NULL, border.top = NULL,
border.bottom = NULL, border.left = NULL, border.right = NULL,
part = "body")
```

Arguments

```
a flextable object
Х
i
                  rows selection
i
                  columns selection
                  border (shortcut for top, bottom, left and right)
border
border.top
                  border top
border.bottom
                  border bottom
border.left
                  border left
border.right
                  border right
```

Note

part

this function requires careful settings to avoid overlapping borders.

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, hline_bottom, hline_top, hline, vline_left, vline_right, vline

partname of the table (one of 'all', 'body', 'header', 'footer')

```
library(officer)
ft <- flextable(mtcars)
ft <- border(ft, border.top = fp_border(color = "orange") )</pre>
```

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border_inner

set vertical & horizontal inner borders

Description

The function is applying a vertical and horizontal borders to inner content of one or all parts of a flextable.

Usage

```
border_inner(x, border = NULL, part = "all")
```

Arguments

x a flextable object

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

Other borders management: border_inner_h, border_inner_v, border_outer, border_remove, border, hline_bottom, hline_top, hline, vline_left, vline_right, vline

Examples

```
library(officer)
std_border = fp_border(color="orange", width = 1)

dat <- iris[c(1:5, 51:55, 101:105),]
ft <- flextable(dat)
ft <- border_remove(x = ft)

# add inner vertical borders
ft <- border_inner(ft, border = std_border)
ft</pre>
```

border_inner_h

set inner borders

Description

The function is applying a border to inner content of one or all parts of a flextable.

```
border_inner_h(x, border = NULL, part = "body")
```

border_inner_v

Arguments

x a flextable object

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

Other borders management: border_inner_v, border_inner, border_outer, border_remove, border, hline_bottom, hline_top, hline, vline_left, vline_right, vline

Examples

```
library(officer)
std_border = fp_border(color="orange", width = 1)

dat <- iris[c(1:5, 51:55, 101:105),]
ft <- flextable(dat)
ft <- border_remove(x = ft)

# add inner horizontal borders
ft <- border_inner_h(ft, border = std_border )
ft</pre>
```

border_inner_v

set vertical inner borders

Description

The function is applying a vertical border to inner content of one or all parts of a flextable.

Usage

```
border_inner_v(x, border = NULL, part = "all")
```

Arguments

x a flextable object

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

```
Other borders management: border_inner_h, border_inner, border_outer, border_remove, border, hline_bottom, hline_top, hline, vline_left, vline_right, vline
```

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Examples

```
library(officer)
std_border = fp_border(color="orange", width = 1)

dat <- iris[c(1:5, 51:55, 101:105),]
ft <- flextable(dat)
ft <- border_remove(x = ft)

# add inner vertical borders
ft <- border_inner_v(ft, border = std_border )
ft</pre>
```

border_outer

set outer borders

Description

The function is applying a border to outer cells of one or all parts of a flextable.

Usage

```
border_outer(x, border = NULL, part = "all")
```

Arguments

```
x a flextable object
border border defined by a call to fp_border
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_remove, border, hline_bottom, hline_top, hline, vline_left, vline_right, vline

```
library(officer)
big_border = fp_border(color="red", width = 2)

dat <- iris[c(1:5, 51:55, 101:105),]
ft <- flextable(dat)
ft <- border_remove(x = ft)

# add outer borders
ft <- border_outer(ft, part="all", border = big_border )
ft</pre>
```

24 colformat_char

border_remove

remove borders

Description

The function is deleting all borders of the flextable object.

Usage

```
border_remove(x)
```

Arguments

Χ

a flextable object

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border, hline_bottom, hline_top, hline, vline_left, vline_right, vline

Examples

```
dat <- iris[c(1:5, 51:55, 101:105),]
ft <- flextable(dat)
ft <- theme_box(ft)
ft

# remove all borders
ft <- border_remove(x = ft)
ft</pre>
```

colformat_char

format character cells

Description

Format character cells in a flextable.

```
colformat_char(x, ...)
## S3 method for class 'flextable'
colformat_char(x, col_keys, na_str = "",
    prefix = "", suffix = "", ...)
```

colformat_int 25

Arguments

```
    x a flextable object
    ... additional arguments, i can be used to specify a row selector.
    col_keys names of the colkeys
    na_str string to be used for NA values
    prefix, suffix string to be used as prefix or suffix
```

See Also

Other cells formatters: colformat_int, colformat_lgl, colformat_num, compose

Examples

```
dat <- iris
ft <- flextable(dat)
ft <- colformat_char(
   x = ft, col_keys = "Species", suffix = "!")
autofit(ft)</pre>
```

colformat_int

format integer cells

Description

Format integer cells in a flextable.

Usage

```
colformat_int(x, ...)
## S3 method for class 'flextable'
colformat_int(x, col_keys, big.mark = ",",
    na_str = "", prefix = "", suffix = "", ...)
```

Arguments

x	a flextable object
	additional arguments, i can be used to specify a row selector.
col_keys	names of the colkeys
big.mark	see formatC
na_str	string to be used for NA values
prefix	string to be used as prefix or suffix
suffix	string to be used as prefix or suffix

26 colformat_lgl

See Also

Other cells formatters: colformat_char, colformat_lgl, colformat_num, compose

Examples

```
dat <- mtcars

ft <- flextable(dat)
colkeys <- c("vs", "am", "gear", "carb")
ft <- colformat_int(x = ft, col_keys = colkeys, prefix = "# ")
autofit(ft)</pre>
```

colformat_lgl

format logical cells

Description

Format logical cells in a flextable.

Usage

```
colformat_lgl(x, ...)
## S3 method for class 'flextable'
colformat_lgl(x, col_keys, true = "true",
    false = "false", na_str = "", prefix = "", suffix = "", ...)
```

Arguments

```
    x a flextable object
    ... additional arguments, i can be used to specify a row selector.
    col_keys names of the colkeys
    false, true string to be used for logical
    na_str string to be used for NA values
    prefix string to be used as prefix or suffix
    suffix string to be used as prefix or suffix
```

See Also

Other cells formatters: colformat_char, colformat_int, colformat_num, compose

```
dat <- data.frame(a = c(TRUE, FALSE), b = c(FALSE, TRUE))
ft <- flextable(dat)
ft <- colformat_lgl(x = ft, col_keys = c("a", "b"))
autofit(ft)</pre>
```

colformat_num 27

colformat_num

format numeric cells

Description

Format numeric cells in a flextable.

Usage

```
colformat_num(x, ...)
## S3 method for class 'flextable'
colformat_num(x, col_keys, big.mark = ",",
    digits = 2, na_str = "", prefix = "", suffix = "", ...)
```

Arguments

See Also

Other cells formatters: colformat_char, colformat_int, colformat_lgl, compose

28 compose

color

Set font color

Description

change font color of selected rows and columns of a flextable.

Usage

```
color(x, i = NULL, j = NULL, color, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
color color to use as font color
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other sugar functions for table style: align, bg, bold, empty_blanks, fontsize, font, italic, padding, rotate, valign

Examples

```
ft <- flextable(mtcars)
ft <- color(ft, color = "orange", part = "header")</pre>
```

compose

Define flextable displayed values

Description

Modify flextable displayed values. Function is handling complex formatting as well as image insertion.

```
compose(x, i = NULL, j = NULL, value, part = "body")
mk_par(x, i = NULL, j = NULL, value, part = "body")
```

delete_part 29

Arguments

```
x a flextable object
i rows selection
j column selection
value a call to function as_paragraph.
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

mk_par

Function mk_par is another name for compose as there is an unwanted conflict with package purrr.

See Also

Other cells formatters: colformat_char, colformat_int, colformat_lgl, colformat_num

Examples

```
library(officer)
ft <- flextable(head( mtcars, n = 10))
ft <- compose(ft, j = "carb", i = ~ drat > 3.5,
   value = as_paragraph("carb is ", as_chunk( sprintf("%.1f", carb)) )
   )
ft <- autofit(ft)</pre>
```

delete_part

delete flextable part

Description

indicate to not print a part of the flextable, i.e. an header, footer or the body.

Usage

```
delete_part(x, part = "header")
```

Arguments

```
x a flextable object
part partname of the table to delete (one of 'body', 'header' or 'footer').
```

```
ft <- flextable( head( iris ) )
ft <- delete_part(x = ft, part = "header")
ft</pre>
```

30 dim_pretty

dim.flextable

Get widths and heights of flextable

Description

returns widths and heights for each table columns and rows. Values are expressed in inches.

Usage

```
## S3 method for class 'flextable'
dim(x)
```

Arguments

Х

flextable object

See Also

Other flextable dimensions: autofit, dim_pretty, fit_to_width, flextable_dim, height, width

Examples

```
ft <- flextable(head(iris))
dim(ft)</pre>
```

dim_pretty

Calculate pretty dimensions

Description

return minimum estimated widths and heights for each table columns and rows in inches.

Usage

```
dim_pretty(x, part = "all")
```

Arguments

x flextable object

part partname of the table (one of 'all', 'body', 'header' or 'footer')

See Also

```
Other flextable dimensions: autofit, \dim. flextable, \operatorname{fit\_to\_width}, \operatorname{flextable\_dim}, \operatorname{height}, width
```

display 31

Examples

```
ft <- flextable(mtcars)
dim_pretty(ft)</pre>
```

display

Define flextable displayed values

Description

Modify flextable displayed values by specifying a string expression. Function is handling complex formatting as well as image insertion.

Usage

```
display(x, i = NULL, col_key, pattern, formatters = list(),
  fprops = list(), part = "body")
```

Arguments

x a flextable objecti rows selection

col_key column to modify, a single character

pattern string to format

formatters a list of formula, left side for the name, right side for the content.

fprops a named list of fp_text

part partname of the table (one of 'all', 'body', 'header', 'footer')

pattern

It defined the template used to format the produced strings. Names enclosed by double braces will be evaluated as R code, the corresponding R code is defined with the argument formatters.

formatters

Each compound is specifying the R code to execute to produce strings that will be substituted in the pattern argument. An element must be a formula: the left-hand side is a name (matching a name enclosed by double braces in pattern) and the right-hand side is an R expression to be evaluated (that will produce the corresponding strings).

The function is designed to work with columns in the dataset provided to flextable (the col_keys).

fprops

A named list of fp_text. It defines the formatting properties associated to a compound in formatters. If not defined for an element of formatters, the default formatting properties will be applied.

32 docx_value

Note

You should use compose instead - the function is easier to use. Function display will be deprecated in the next release.

Examples

```
library(officer)
# Formatting data values example -----
ft <- flextable(head( mtcars, n = 10))
ft <- display(ft, col_key = "carb",
    i = ~ drat > 3.5, pattern = "# {{carb}}",
    formatters = list(carb ~ sprintf("%.1f", carb)),
    fprops = list(carb = fp_text(color="orange") ) )
ft <- autofit(ft)</pre>
```

docx_value

flextable docx string

Description

get openxml raw code for Word from a flextable object.

Usage

```
docx_value(x, print = TRUE)
```

Arguments

```
x a flextable object
print print output if TRUE
```

See Also

```
Other flextable print function: as_raster, format.flextable, htmltools_value, knit_print.flextable, plot.flextable, print.flextable, save_as_image
```

```
docx_value(flextable(iris[1:5,]))
```

empty_blanks 33

empty_blanks

make blank columns as transparent

Description

blank columns are set as transparent. This is a shortcut function that will delete top and bottom borders, change background color to transparent and display empty content.

Usage

```
empty_blanks(x)
```

Arguments

¥

a flextable object

See Also

Other sugar functions for table style: align, bg, bold, color, fontsize, font, italic, padding, rotate, valign

fix_border_issues

fit_to_width

fit a flextable to a maximum width

Description

decrease font size for each cell incrementally until it fits a given max_width.

Usage

```
fit_to_width(x, max_width, inc = 1L, max_iter = 20)
```

Arguments

x flextable object

max_width maximum width to fit in inches inc the font size decrease for each step

max_iter maximum iterations

See Also

Other flextable dimensions: autofit, dim.flextable, dim_pretty, flextable_dim, height, width

Examples

```
ft <- qflextable(head(mtcars))
ft <- padding(ft, padding = 0, part = "all")
fit_to_width(ft, max_width = 6)</pre>
```

fix_border_issues

fix border issues when cell are merged

Description

When cells are merged, the rendered borders will be those of the first cell. If a column is made of three merged cells, the bottom border that will be seen will be the bottom border of the first cell in the column. From a user point of view, this is wrong, the bottom should be the one defined for cell 3. This function modify the border values to avoid that effect.

```
fix_border_issues(x, part = "all")
```

flextable 35

Arguments

```
x flextable object
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

Examples

```
if( require(magrittr) ){
  library(officer)
  ft <- data.frame(a = 1:5, b = 6:10) %>%
     flextable() %>%
     theme_box() %>%
     merge_at(i = 4:5, j = 1, part = "body") %>%
     hline(i = 5, part = "body",
          border = fp_border(color = "red", width = 5) )
  print(ft)
  fix_border_issues(ft) %>% print()
}
```

flextable

flextable creation

Description

Create a flextable object with function flextable.

flextable are designed to make tabular reporting easier for R users. Functions are available to let you format text, paragraphs and cells; table cells can be merge vertically or horizontally, row headers can easily be defined, rows heights and columns widths can be manually set or automatically computed.

Usage

```
flextable(data, col_keys = names(data), cwidth = 0.75,
    cheight = 0.25, defaults = list(), theme_fun = theme_booktabs)

qflextable(data)

regulartable(data, col_keys = names(data), cwidth = 0.75,
    cheight = 0.25)
```

Arguments

data dataset

col_keys columns names/keys to display. If some column names are not in the dataset,

they will be added as blank columns by default.

cwidth, cheight

initial width and height to use for cell sizes in inches.

36 flextable_dim

defaults a list of default values for formats, supported options are fontname, font.size,

color and padding.

theme_fun a function theme to apply before returning the flextable. set to NULL for none.

Details

A flextable is made of 3 parts: header, body and footer.

Most functions have an argument named part that will be used to specify what part of of the table should be modified.

qflextable

qflextable is a convenient tool to produce quickly a flextable for reporting

Note

Function regulartable is maintained for compatibility with old codes mades by users but be aware it produces the same exact object than flextable.

Examples

```
ft <- flextable(mtcars)
ft</pre>
```

flextable_dim

width and height of a flextable object

Description

Returns the width, height and aspect ratio of a flextable in a named list. The width and height are in inches. The aspect ratio is the ratio corresponding to height/width.

Names of the list are width, height and aspect_ratio.

Usage

```
flextable_dim(x)
```

Arguments

x a flextable object

See Also

Other flextable dimensions: autofit, dim. flextable, dim_pretty, fit_to_width, height, width

font 37

Examples

```
ft <- flextable(head(iris))
flextable_dim(ft)
ft <- autofit(ft)
flextable_dim(ft)</pre>
```

font

Set font

Description

change font of selected rows and columns of a flextable.

Usage

```
font(x, i = NULL, j = NULL, fontname, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
fontname string value, the font name.
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other sugar functions for table style: align, bg, bold, color, empty_blanks, fontsize, italic, padding, rotate, valign

```
require("gdtools")
fontname <- "Times"

if( !font_family_exists(fontname) ){
    # if Times is not available, we will use the first available
    font_list <- sys_fonts()
    fontname <- as.character(font_list$family[1])
}

ft <- flextable(head(iris))
ft <- font(ft, fontname = fontname, part = "header")</pre>
```

fontsize

Set font size

Description

change font size of selected rows and columns of a flextable.

Usage

```
fontsize(x, i = NULL, j = NULL, size = 11, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
size integer value (points)
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

```
Other sugar functions for table style: align, bg, bold, color, empty_blanks, font, italic, padding, rotate, valign
```

Examples

```
ft <- flextable(mtcars)
ft <- fontsize(ft, size = 14, part = "header")</pre>
```

```
footers_flextable_at_bkm
```

add flextable at a bookmark location in document's footer

Description

replace in the footer of a document a paragraph containing a bookmark by a flextable. A bookmark will be considered as valid if enclosing words within a paragraph; i.e., a bookmark along two or more paragraphs is invalid, a bookmark set on a whole paragraph is also invalid, but bookmarking few words inside a paragraph is valid.

```
footers_flextable_at_bkm(x, bookmark, value)
```

footnote 39

Arguments

Χ	an rdocx object
bookmark	bookmark id
value	a flextable object

footnote

add footnotes to flextable

Description

add footnotes to a flextable object. A symbol is appened where the footnote is defined and the note is appened in the footer part of the table.

Usage

```
footnote(x, i = NULL, j = NULL, value, ref_symbols = NULL,
   part = "body")
```

Arguments

```
x a flextable object
i rows selection
j column selection
value a call to function as_paragraph.
ref_symbols character value, symbols to append that will be used as references to notes.
part partname of the table (one of 'body', 'header', 'footer')
```

format.flextable

Encode flextable in a document format.

Description

Encode flextable in a document format, html, docx, pptx.

This function is exported so that users can create their own custom component.

Usage

```
## S3 method for class 'flextable'
format(x, type, ...)
```

Arguments

```
x flextable objecttype one of pptx, docx or html.... unused
```

See Also

Other flextable print function: as_raster, docx_value, htmltools_value, knit_print.flextable, plot.flextable, print.flextable, save_as_image

Examples

```
ft <- flextable(head(iris, n = 2))
format(ft, type = "html")</pre>
```

```
headers_flextable_at_bkm
```

add flextable at a bookmark location in document's header

Description

replace in the header of a document a paragraph containing a bookmark by a flextable. A bookmark will be considered as valid if enclosing words within a paragraph; i.e., a bookmark along two or more paragraphs is invalid, a bookmark set on a whole paragraph is also invalid, but bookmarking few words inside a paragraph is valid.

```
headers_flextable_at_bkm(x, bookmark, value)
```

height 41

Arguments

X	an rdocx object
bookmark	bookmark id
value	a flextable object

height

Set flextable rows height

Description

control rows height for a part of the flextable.

Usage

```
height(x, i = NULL, height, part = "body")
height_all(x, height, part = "all")
```

Arguments

x flextable object
i rows selection
height in inches
part partname of the table

height_all

height_all is a convenient function for setting the same height to all rows (selected with argument part).

See Also

 $Other flextable \ dimensions: \ autofit, \ dim. \ flextable, \ dim_pretty, \ fit_to_width, \ flextable_dim, \ width$

```
ft <- flextable(iris)
ft <- height(ft, height = .3)

ft <- flextable(iris)
ft <- height_all(ft, height = .3)</pre>
```

42 hline

hline

set horizontal borders

Description

The function is applying an horizontal border to inner content of one or all parts of a flextable. The lines are the bottom borders of selected cells.

Usage

```
hline(x, i = NULL, j = NULL, border = NULL, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
border border defined by a call to fp_border
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, border, hline_bottom, hline_top, vline_left, vline_right, vline

```
library(officer)
std_border = fp_border(color="gray")

ft <- flextable(head(iris))
ft <- border_remove(x = ft)

# add horizontal borders
ft <- hline(ft, part="all", border = std_border )
ft</pre>
```

hline_bottom 43

hline_bottom set bottom horizontal border	hline_bottom	set bottom horizontal border	
---	--------------	------------------------------	--

Description

The function is applying an horizontal border to the bottom of one or all parts of a flextable. The line is the bottom border of selected parts.

Usage

```
hline_bottom(x, j = NULL, border = NULL, part = "body")
```

Arguments

```
x a flextable object

j columns selection

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, border, hline_top, hline, vline_left, vline_right, vline

Examples

```
library(officer)
big_border = fp_border(color="orange", width = 3)

ft <- flextable(head(iris))
ft <- border_remove(x = ft)

# add/replace horizontal border on bottom
ft <- hline_bottom(ft, part="body", border = big_border )
ft</pre>
```

hline_top set top horizontal border

Description

The function is applying an horizontal border to the top of one or all parts of a flextable. The line is the top border of selected parts.

44 htmltools_value

Usage

```
hline_top(x, j = NULL, border = NULL, part = "body")
```

Arguments

```
x a flextable object j columns selection
```

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, border, hline_bottom, hline, vline_left, vline_right, vline

Examples

```
library(officer)
big_border = fp_border(color="orange", width = 3)

ft <- flextable(head(iris))
ft <- border_remove(x = ft)

# add horizontal border on top
ft <- hline_top(ft, part="all", border = big_border )
ft</pre>
```

htmltools_value

flextable as a div object

Description

get a div from a flextable object. This can be used in a shiny application.

Usage

```
htmltools_value(x, class = "tabwid")
```

Arguments

x a flextable object

class classes (default to "tabwid"), accepted values are "tabwid", "tabwid tab-

wid_left", "tabwid tabwid_right".

See Also

```
Other flextable print function: as_raster, docx_value, format.flextable, knit_print.flextable, plot.flextable, print.flextable, save_as_html, save_as_image
```

hyperlink_text 45

Examples

```
htmltools_value(flextable(iris[1:5,]))
```

hyperlink_text

chunk of text with hyperlink wrapper

Description

The function lets add hyperlinks within flextable objects with function compose. It should be used inside a call to as_paragraph.

Usage

```
hyperlink_text(x, props = NULL, formater = format_fun, url, ...)
```

Arguments

x text or any element that can be formatted as text with function provided in argu-

ment formater.

props an fp_text object to be used to format the text. If not specified, it will be the

default value corresponding to the cell.

formater a function that will format x as a character vector.

url url to be used

... additional arguments for formater function.

See Also

display

Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_image, as_i, as_sub, as_sup, linerange, minibar

```
dat <- data.frame(
  col = "Google it",
  href = "https://www.google.fr/search?source=hp&q=flextable+R+package",
  stringsAsFactors = FALSE)

ft <- flextable(dat)
ft <- compose( x = ft, j = "col",
  value = as_paragraph(
    "This is a link: ",
    hyperlink_text(x = col, url = href ) ) )
ft</pre>
```

knit_print.flextable

italic

Set italic font

Description

change font decoration of selected rows and columns of a flextable.

Usage

```
italic(x, i = NULL, j = NULL, italic = TRUE, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
italic boolean value
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other sugar functions for table style: align, bg, bold, color, empty_blanks, fontsize, font, padding, rotate, valign

Examples

```
ft <- flextable(mtcars)
ft <- italic(ft, italic = TRUE, part = "header")</pre>
```

 $knit_print.flextable$ Render flextable in rmarkdown

Description

Function used to render flextable in knitr/rmarkdown documents. HTML, Word and PowerPoint outputs are supported.

Function htmltools_value return an HTML version of the flextable, this function is to be used within Shiny applications with renderUI().

```
## S3 method for class 'flextable'
knit_print(x, ...)
```

linerange 47

Arguments

x a flextable object

... further arguments, not used.

HTML chunk options

Result can be aligned with chunk option ft.align that accepts values 'left', 'center' and 'right'.

Word chunk options

Result can be aligned with chunk option ft.align that accepts values 'left', 'center' and 'right'.

Word option 'Allow row to break across pages' can be activated with chunk option ft.split set to TRUE.

To specify a Word style for table caption use chunk option tab.cap.style. The default value is "Table Caption".

PowerPoint chunk options

Position should be defined with options ft.left and ft.top. Theses are the top left coordinates of the placeholder that will contain the table. They default to {r ft.left=1, ft.left=2}.

Note

For Word (docx) output, if pandoc version >= 2.0 is used, a raw XML block with the table code will be inserted. If pandoc version < 2.0 is used, an error will be raised. Insertion of images is not supported with rmarkdown for Word documents (use the package officedown instead). For PowerPoint (pptx) output, if pandoc version < 2.4 is used, an error will be raised.

Author(s)

Maxim Nazarov

See Also

Other flextable print function: as_raster, docx_value, format.flextable, htmltools_value, plot.flextable, print.flextable, save_as_html, save_as_image

linerange

mini linerange chunk wrapper

Description

This function is used to insert lineranges into flextable with function compose. It should be used inside a call to as_paragraph

48 linerange

Usage

```
linerange(value, min = NULL, max = NULL, rangecol = "#CCCCC",
  stickcol = "#FF0000", bg = "transparent", width = 1,
  height = 0.2, raster_width = 30)
```

Arguments

value values containing the bar size min bar size. Default min of value min max max bar size. Default max of value rangecol bar color stickcol jauge color bg background color width, height size of the resulting png file in inches raster_width number of pixels used as width when interpolating value.

Note

PowerPoint cannot mix images and text in a paragraph, images are removed when outputing to PowerPoint format.

See Also

```
compose, as_paragraph
```

Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_image, as_i, as_sub, as_sup, hyperlink_text, minibar

```
myft <- flextable( head(iris, n = 10 ))

myft <- compose( myft, j = 1,
    value = as_paragraph(
        linerange(value = Sepal.Length)
    ),
    part = "body")

autofit(myft)</pre>
```

merge_at 49

merge_at

Merge flextable cells into a single one

Description

Merge flextable cells into a single one. All rows and columns must be consecutive.

Usage

```
merge_at(x, i = NULL, j = NULL, part = "body")
```

Arguments

x flextable object

i, j columns and rows to merge

part partname of the table where merge has to be done.

See Also

Other flextable merging function: merge_h_range, merge_h, merge_none, merge_v

Examples

```
ft_merge <- flextable( head( mtcars ), cwidth = .5 )
ft_merge <- merge_at( ft_merge, i = 1:2, j = 1:2 )
ft_merge</pre>
```

merge_h

Merge flextable cells horizontally

Description

Merge flextable cells horizontally when consecutive cells have identical values. Text of formatted values are used to compare values.

Usage

```
merge_h(x, i = NULL, part = "body")
```

Arguments

x flextable object

i rows where cells have to be merged.

part partname of the table where merge has to be done.

50 merge_h_range

See Also

Other flextable merging function: merge_at, merge_h_range, merge_none, merge_v

Examples

```
dummy_df <- data.frame( col1 = letters,
col2 = letters, stringsAsFactors = FALSE )
ft_merge <- flextable(dummy_df)
ft_merge <- merge_h(x = ft_merge)
ft_merge</pre>
```

merge_h_range

rowwise merge of a range of columns

Description

Merge flextable columns into a single one for each selected rows. All columns must be consecutive.

Usage

```
merge_h_range(x, i = NULL, j1 = NULL, j2 = NULL, part = "body")
```

Arguments

X	flextable object
i	selected rows
j1, j2	selected columns that will define the range of columns to merge.
part	partname of the table where merge has to be done.

See Also

Other flextable merging function: merge_at, merge_h, merge_none, merge_v

```
ft <- flextable( head( mtcars ), cwidth = .5 ) ft <- merge_h_range( ft, i = \sim cyl == 6, j1 = "am", j2 = "carb") ft
```

merge_none 51

merge_none

Delete flextable merging informations

Description

Delete all merging informations from a flextable.

Usage

```
merge_none(x, part = "all")
```

Arguments

```
x flextable object
part partname of the table where merge has to be done.
```

See Also

Other flextable merging function: merge_at, merge_h_range, merge_h, merge_v

Examples

```
typology <- data.frame(
  col_keys = c( "Sepal.Length", "Sepal.Width", "Petal.Length", "Petal.Width", "Species" ),
  what = c("Sepal", "Sepal", "Petal", "Petal", "Species"),
  measure = c("Length", "Width", "Length", "Width", "Species"),
  stringsAsFactors = FALSE )

ft <- flextable( head( iris ) )
  ft <- set_header_df(ft, mapping = typology, key = "col_keys" )
  ft <- merge_v(ft, j = c("Species"))

ft <- theme_tron_legacy( merge_none( ft ) )
  ft</pre>
```

merge_v

Merge flextable cells vertically

Description

Merge flextable cells vertically when consecutive cells have identical values. Text of formatted values are used to compare values.

```
merge_v(x, j = NULL, target = NULL, part = "body")
```

52 minibar

Arguments

```
x flextable object
j column to used to find consecutive values to be merged.
target columns names where cells have to be merged.
part partname of the table where merge has to be done.
```

See Also

Other flextable merging function: merge_at, merge_h_range, merge_h, merge_none

Examples

```
ft_merge <- flextable(mtcars)</pre>
ft_merge <- merge_v(ft_merge, j = c("gear", "carb"))</pre>
ft_merge
data_ex <- structure(list(srdr_id = c(</pre>
  "175124", "175124", "172525", "172525",
  "172545", "172545", "172609", "172609", "172609"
), substances = c(
  "alcohol",
  "alcohol", "alcohol", "alcohol", "cannabis",
  "cannabis", "alcohol\n cannabis\n other drugs",
  "alcohol\n cannabis\n other drugs",
  "alcohol\n cannabis\n other drugs"
), full_name = c(
  "TAU", "MI", "TAU", "MI (parent)", "TAU", "MI",
  "TAU", "MI", "MI"
), article_arm_name = c(
  "Control", "WISEteens",
  "Treatment as usual", "Brief MI (b-MI)", "Assessed control",
  "Intervention", "Control", "Computer BI", "Therapist BI"
)), row.names = c(
 NA,
  -9L
), class = c("tbl_df", "tbl", "data.frame"))
ft <- flextable(data_ex)</pre>
ft <- theme_box(ft)</pre>
merge_v(ft, j = "srdr_id",
  target = c("srdr_id", "substances"))
```

minibar

mini barplots chunk wrapper

Description

This function is used to insert bars into flextable with function compose. It should be used inside a call to as_paragraph

padding 53

Usage

```
minibar(value, max = NULL, barcol = "#CCCCCC", bg = "transparent",
  width = 1, height = 0.2)
```

Arguments

value values containing the bar size
max max bar size
barcol bar color

bg background color

width, height size of the resulting png file in inches

Note

PowerPoint cannot mix images and text in a paragraph, images are removed when outputing to PowerPoint format.

See Also

```
compose, as_paragraph
```

Other chunk elements for paragraph: as_bracket, as_b, as_chunk, as_image, as_i, as_sub, as_sup, hyperlink_text, linerange

Examples

```
myft <- flextable( head(iris, n = 10 ))

myft <- compose( myft, j = 1,
   value = as_paragraph(
     minibar(value = Sepal.Length, max = max(Sepal.Length))
   ),
   part = "body")

autofit(myft)</pre>
```

padding

Set paragraph paddings

Description

change paddings of selected rows and columns of a flextable.

```
padding(x, i = NULL, j = NULL, padding = NULL, padding.top = NULL,
padding.bottom = NULL, padding.left = NULL, padding.right = NULL,
part = "body")
```

54 ph_with.flextable

Arguments

```
a flextable object
Х
i
                  rows selection
j
                  columns selection
                  padding (shortcut for top, bottom, left and right)
padding
padding.top
                  padding top
padding.bottom padding bottom
padding.left
                  padding left
padding.right
                  padding right
                  partname of the table (one of 'all', 'body', 'header', 'footer')
part
```

See Also

```
Other sugar functions for table style: align, bg, bold, color, empty_blanks, fontsize, font, italic, rotate, valign
```

Examples

```
ft <- flextable(mtcars)
ft <- padding(ft, padding.top = 4)</pre>
```

ph_with.flextable

add a flextable into a PowerPoint slide

Description

Add a flextable in a PowerPoint document object produced by read_pptx.

Usage

```
## S3 method for class 'flextable'
ph_with(x, value, ...)
```

Arguments

x a pptx devicevalue flextable object

... Arguments to be passed to methods, argument location is mandatory.

ph_with_flextable 55

Examples

```
library(officer)

ft = flextable(head(iris))

doc <- read_pptx()
doc <- add_slide(doc, "Title and Content", "Office Theme")
doc <- ph_with(doc, ft, location = ph_location_left())

fileout <- tempfile(fileext = ".pptx")
print(doc, target = fileout)</pre>
```

ph_with_flextable

add flextable into a PowerPoint slide

Description

add a flextable as a new shape in the current slide. These functions will be deprecated in the next release and function ph_with.flextable should be used instead.

Usage

```
ph_with_flextable(x, value, type = "body", index = 1)
ph_with_flextable_at(x, value, left, top)
```

Arguments

x	an rpptx device
value	flextable object
type	placeholder type
index	placeholder index (integer). This is to be used when a placeholder type is not unique in the current slide, e.g. two placeholders with type 'body'.
left, top	location of flextable on the slide in inches

Note

The width and height of the table can not be set with this function. Use functions width, height, autofit and dim_pretty instead. The overall size is resulting from cells, paragraphs and text properties (i.e. padding, font size, border widths).

56 plot.flextable

Examples

plot.flextable

plot a flextable

Description

save a flextable as an image and display the result in a new R graphics window.

Usage

```
## S3 method for class 'flextable'
plot(x, zoom = 2, expand = 2, ...)
```

Arguments

```
x a flextable objectzoom, expand parameters used by webshot function.... additional parameters sent to plot function
```

Note

This function requires packages: webshot and magick.

See Also

```
Other flextable print function: as_raster, docx_value, format.flextable, htmltools_value, knit_print.flextable, print.flextable, save_as_image
```

print.flextable 57

Examples

```
ft <- flextable( head( mtcars ) )
ft <- autofit(ft)
## Not run:
if( require("webshot") ){
  plot(ft)
}
## End(Not run)</pre>
```

print.flextable

flextable printing

Description

print a flextable object to format html, docx, pptx or as text (not for display but for informative purpose). This function is to be used in an interactive context.

Usage

```
## S3 method for class 'flextable'
print(x, preview = "html", ...)
```

Arguments

```
x flextable object

preview preview type, one of c("html", "pptx", "docx", "log"). When "log" is used, a description of the flextable is printed.

... unused argument
```

Note

When argument preview is set to "docx" or "pptx", an external client linked to these formats (Office is installed) is used to edit a document. The document is saved in the temporary directory of the R session and will be removed when R session will be ended.

When argument preview is set to "html", an external client linked to these HTML format is used to display the table. If RStudio is used, the Viewer is used to display the table.

Note also that a print method is used when flextable are used within R markdown documents. See knit_print.flextable.

See Also

```
Other flextable print function: as_raster, docx_value, format.flextable, htmltools_value, knit_print.flextable, plot.flextable, save_as_html, save_as_image
```

58 rotate

proc_freq

frequency table as flextable

Description

This function compute a two way contingency table and make a flextable with the result.

Usage

```
proc_freq(x, row, col, main = "")
```

Arguments

x data.frame object

row characer column names for row

col characer column names for column

main characer title

Author(s)

Titouan Robert

Examples

```
proc_freq(mtcars, "vs", "gear")
proc_freq(mtcars, "gear", "vs")
proc_freq(mtcars, "gear", "vs", "My title")
```

rotate

rotate cell text

Description

```
apply a rotation to cell text
```

```
rotate(x, i = NULL, j = NULL, rotation, align = "center",
   part = "body")
```

save_as_html 59

Arguments

x	a flextable object
i	rows selection
j	columns selection
rotation	one of "lrtb", "tbrl", "btlr"
align	vertical alignment of paragraph within cell, one of "center" or "top" or "bottom".
part	partname of the table (one of 'all', 'body', 'header', 'footer')

Details

One common case is to rotate text to minimise column space. When rotating, paragraph alignments will remain the same and often right aligned (with an effect of top aligned when rotated). Use align(..., align = "center") to center rotated text.

When function autofit is used, the rotation will be ignored.

See Also

Other sugar functions for table style: align, bg, bold, color, empty_blanks, fontsize, font, italic, padding, valign

Examples

```
ft <- flextable(head(iris))
ft <- rotate(ft, rotation = "tbrl", part = "header", align = "center")
ft <- align(ft, align = "center")
ft <- autofit(ft)
ft <- height(ft, height = max(dim_pretty(ft, part = "header")$widths), part = "header")</pre>
```

save_as_html

save a flextable in an HTML file

Description

save a flextable in an HTML file. This function has been implemented to help users that do not understand R Markdown. It is highly recommanded to use R Markdown instead.

Usage

```
save_as_html(x, path)
```

Arguments

```
x a flextable object
```

path HTML file to be created

save_as_image

See Also

Other flextable print function: as_raster, docx_value, format.flextable, htmltools_value, knit_print.flextable, plot.flextable, print.flextable, save_as_image

Examples

```
ft <- flextable( head( mtcars ) )
tf <- tempfile(fileext = ".html")
save_as_html(ft, tf)</pre>
```

save_as_image

save a flextable as an image

Description

save a flextable as a png, pdf or jpeg image.

Usage

```
save_as_image(x, path, zoom = 3, expand = 10)
```

Arguments

```
x a flextable object

path image file to be created. It should end with .png, .pdf, or .jpeg.

zoom, expand parameters used by webshot function.
```

Note

This function requires package webshot.

See Also

Other flextable print function: as_raster, docx_value, format.flextable, htmltools_value, knit_print.flextable, plot.flextable, print.flextable, save_as_html

```
ft <- flextable( head( mtcars ) )
ft <- autofit(ft)
tf <- tempfile(fileext = ".png")
## Not run:
if( require("webshot") ){
   save_as_image(x = ft, path = "myimage.png")
}
## End(Not run)</pre>
```

set_caption 61

set_caption

set caption

Description

set caption value in flextable

Usage

```
set_caption(x, caption)
```

Arguments

```
x flextable objectcaption caption value
```

Note

this will have an effect only when output is HTML or Word document.

Examples

```
ft <- flextable( head( iris ) )
ft <- set_caption(ft, "my caption")
ft</pre>
```

set_formatter

set column formatter functions

Description

Define formatter functions associated to each column key. Functions have a single argument (the vector) and are returning the formatted values as a character vector.

```
set_formatter(x, ..., values = NULL, part = "body")
set_formatter_type(x, fmt_double = "%.03f", fmt_integer = "%.0f",
fmt_date = "%Y-%m-%d", fmt_datetime = "%Y-%m-%d %H:%M:%S",
true = "true", false = "false", na_str = "")
```

set_header_footer_df

Arguments

```
a flextable object
Х
                  Name-value pairs of functions, names should be existing col_key values
values
                  a list of name-value pairs of functions, names should be existing col_key values.
                  If values is supplied argument . . . is ignored.
                  partname of the table (one of 'body' or 'header' or 'footer')
part
fmt_double, fmt_integer
                  arguments used by sprintf to format double and integer columns.
fmt_date, fmt_datetime
                  arguments used by format to format date and date time columns.
                  string to be used for logical columns
false, true
na_str
                  string for NA values
```

set_formatter_type

set_formatter_type is an helper function to quickly define formatter functions regarding to column types.

Examples

Description

Use a data.frame to specify flextable's header or footer rows.

The data.frame must contain a column whose values match flextable col_keys argument, this column will be used as join key. The other columns will be displayed as header or footer rows. The leftmost column is used as the top header/footer row and the rightmost column is used as the bottom header/footer row.

```
set_header_df(x, mapping = NULL, key = "col_keys")
set_footer_df(x, mapping = NULL, key = "col_keys")
```

set_header_labels 63

Arguments

```
x a flextable objectmapping a data. frame specyfing for each colname content of the column.key column to use as key when joigning data_mapping.
```

See Also

Other headers and footers: add_header_lines, add_header_row, add_header

Examples

```
typology <- data.frame(</pre>
 what = c("Sepal", "Sepal", "Petal", "Petal", "Species"),
 measure = c("Length", "Width", "Length", "Width", "Species"),
 stringsAsFactors = FALSE )
ft <- flextable( head( iris ))</pre>
ft <- set_header_df(ft, mapping = typology, key = "col_keys" )</pre>
ft <- merge_h(ft, part = "header")</pre>
ft <- merge_v(ft, j = "Species", part = "header")</pre>
ft <- theme_vanilla(ft)</pre>
typology <- data.frame(</pre>
 col_keys = c( "Sepal.Length", "Sepal.Width", "Petal.Length",
                "Petal.Width", "Species"),
 unit = c("(cm)", "(cm)", "(cm)", "(cm)", ""),
 stringsAsFactors = FALSE )
ft <- set_footer_df(ft, mapping = typology, key = "col_keys" )</pre>
ft <- italic(ft, italic = TRUE, part = "footer" )</pre>
ft <- theme_booktabs(ft)</pre>
ft
```

set_header_labels

Set flextable's headers labels

Description

This function set labels for specified columns in a single row header of a flextable.

```
set_header_labels(x, ..., values = NULL)
```

64 style

Arguments

X	a flextable object
	named arguments (names are data colnames), each element is a single character value specifying label to use.
values	a named list (names are data colnames), each element is a single character value specifying label to use. If provided, argument will be ignored.

Examples

style

Set flextable style

Description

Modify flextable text, paragraphs and cells formatting properties. It allows to specify a set of formatting properties for a selection instead of using multiple functions (.i.e bold, italic, bg) that should all be applied to the same selection of rows and columns.

Usage

```
style(x, i = NULL, j = NULL, pr_t = NULL, pr_p = NULL,
pr_c = NULL, part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
pr_t object(s) of class fp_text
pr_p object(s) of class fp_par
pr_c object(s) of class fp_cell
part partname of the table (one of 'all', 'body', 'header' or 'footer')
```

theme_alafoli 65

Examples

```
library(officer)
def_cell <- fp_cell(border = fp_border(color="#00FFFF"))

def_par <- fp_par(text.align = "center")

ft <- flextable(mtcars)

ft <- style( ft, pr_c = def_cell, pr_p = def_par, part = "all")
ft <- style(ft, ~ drat > 3.5, ~ vs + am + gear + carb,
    pr_t = fp_text(color="red", italic = TRUE) )

ft
```

theme_alafoli

Apply box theme

Description

Apply theme box to a flextable

Usage

```
theme_alafoli(x)
```

Arguments

Х

a flextable object

See Also

```
Other flextable theme: theme_booktabs, theme_box, theme_tron_legacy, theme_tron, theme_vader, theme_vanilla, theme_zebra
```

```
ft <- flextable(iris)
ft <- theme_alafoli(ft)</pre>
```

theme_box

theme_booktabs

Apply booktabs theme

Description

Apply theme tron to a flextable

Usage

```
theme\_booktabs(x, fontsize = 11)
```

Arguments

x a flextable object fontsize font size in pixel

See Also

Other flextable theme: theme_alafoli, theme_box, theme_tron_legacy, theme_tron, theme_vader, theme_vanilla, theme_zebra

Examples

```
ft <- flextable(iris)
ft <- theme_booktabs(ft)</pre>
```

theme_box

Apply box theme

Description

Apply theme box to a flextable

Usage

```
theme_box(x)
```

Arguments

Х

a flextable object

See Also

```
Other flextable theme: theme_alafoli, theme_booktabs, theme_tron_legacy, theme_tron, theme_vader, theme_vanilla, theme_zebra
```

theme_tron 67

Examples

```
ft <- flextable(iris)
ft <- theme_box(ft)</pre>
```

theme_tron

Apply tron theme

Description

Apply theme tron to a flextable

Usage

```
theme_tron(x)
```

Arguments

Х

a flextable object

See Also

Other flextable theme: theme_alafoli, theme_booktabs, theme_box, theme_tron_legacy, theme_vader, theme_vanilla, theme_zebra

Examples

```
ft <- flextable(iris)
ft <- theme_tron(ft)</pre>
```

theme_tron_legacy

Apply tron legacy theme

Description

Apply theme tron legacy to a flextable

Usage

```
theme_tron_legacy(x)
```

Arguments

Х

a flextable object

theme_vader

See Also

Other flextable theme: theme_alafoli, theme_booktabs, theme_box, theme_tron, theme_vader, theme_vanilla, theme_zebra

Examples

```
ft <- flextable(iris)
ft <- theme_tron_legacy(ft)</pre>
```

theme_vader

Apply Sith Lord Darth Vader

Description

Apply Sith Lord Darth Vader theme to a flextable

Usage

```
theme\_vader(x, fontsize = 11)
```

Arguments

x a flextable objectfontsize font size in pixel

See Also

Other flextable theme: theme_alafoli, theme_booktabs, theme_box, theme_tron_legacy, theme_tron, theme_vanilla, theme_zebra

```
ft <- flextable(iris)
ft <- theme_vader(ft)</pre>
```

theme_vanilla 69

theme_vanilla

Apply vanilla theme

Description

Apply theme vanilla to a flextable

Usage

```
theme_vanilla(x)
```

Arguments

Χ

a flextable object

See Also

```
Other flextable theme: theme_alafoli, theme_booktabs, theme_box, theme_tron_legacy, theme_tron, theme_vader, theme_zebra
```

Examples

```
ft <- flextable(iris)
ft <- theme_vanilla(ft)</pre>
```

theme_zebra

Apply zebra theme

Description

Apply theme zebra to a flextable

Usage

```
theme_zebra(x, odd_header = "#CFCFCF", odd_body = "#EFEFEF",
   even_header = "transparent", even_body = "transparent")
```

Arguments

```
x a flextable object
odd_header, odd_body, even_header, even_body
odd/even colors for table header and body
```

See Also

```
Other flextable theme: theme_alafoli, theme_booktabs, theme_box, theme_tron_legacy, theme_tron, theme_vader, theme_vanilla
```

70 valign

Examples

```
ft <- flextable(iris)
ft <- theme_zebra(ft)</pre>
```

valign

Set vertical alignment

Description

change vertical alignment of selected rows and columns of a flextable.

Usage

```
valign(x, i = NULL, j = NULL, valign = "center", part = "body")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
valign vertical alignment of paragraph within cell, one of "center" or "top" or "bottom".
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

```
Other sugar functions for table style: align, bg, bold, color, empty_blanks, fontsize, font, italic, padding, rotate
```

```
ft <- flextable(iris[c(1:3, 51:53, 101:103),])
ft <- theme_box(ft)
ft <- merge_v( ft, j = 5)
ft <- valign(ft, j = 5, valign = "top", part = "all")
ft</pre>
```

vline 71

vline set vertical borders	vline	set vertical borders	
----------------------------	-------	----------------------	--

Description

The function is applying vertical borders to inner content of one or all parts of a flextable. The lines are the right borders of selected cells.

Usage

```
vline(x, i = NULL, j = NULL, border = NULL, part = "all")
```

Arguments

```
x a flextable object
i rows selection
j columns selection
border border defined by a call to fp_border
part partname of the table (one of 'all', 'body', 'header', 'footer')
```

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, border, hline_bottom, hline_top, hline, vline_left, vline_right

```
library(officer)
std_border = fp_border(color="orange")
ft <- flextable(head(iris))
ft <- border_remove(x = ft)

# add vertical borders
ft <- vline(ft, border = std_border )
ft</pre>
```

72 vline_right

vli	ne	left
*		

set flextable left vertical borders

Description

The function is applying vertical borders to the left side of one or all parts of a flextable. The line is the left border of selected cells of the first column.

Usage

```
vline_left(x, i = NULL, border = NULL, part = "all")
```

Arguments

```
x a flextable object i rows selection
```

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, border, hline_bottom, hline_top, hline, vline_right, vline

Examples

```
library(officer)
std_border = fp_border(color="orange")

ft <- flextable(head(iris))
ft <- border_remove(x = ft)

# add vertical border on the left side of the table
ft <- vline_left(ft, border = std_border )
ft</pre>
```

vline_right

set flextable right vertical borders

Description

The function is applying vertical borders to the right side of one or all parts of a flextable. The line is the right border of selected cells of the last column.

void 73

Usage

```
vline_right(x, i = NULL, border = NULL, part = "all")
```

Arguments

```
x a flextable objecti rows selection
```

border border defined by a call to fp_border

part partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

Other borders management: border_inner_h, border_inner_v, border_inner, border_outer, border_remove, border, hline_bottom, hline_top, hline, vline_left, vline

Examples

```
library(officer)
std_border = fp_border(color="orange")

ft <- flextable(head(iris))
ft <- border_remove(x = ft)

# add vertical border on the left side of the table
ft <- vline_right(ft, border = std_border )
ft</pre>
```

void

Delete flextable content

Description

Set content display as a blank " ".

Usage

```
void(x, j = NULL, part = "body")
```

Arguments

```
x flextable object
j columns selection
part partname of the table
```

```
ft <- flextable(mtcars)
ft <- void(ft, ~ vs + am + gear + carb )</pre>
```

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width

Set flextable columns width

Description

control columns width

Usage

```
width(x, j = NULL, width)
```

Arguments

Χ flextable object j columns selection width width in inches

Details

Heights are not used when flextable is been rendered into HTML.

See Also

Other flextable dimensions: autofit, dim.flextable, dim_pretty, fit_to_width, flextable_dim, height

Examples

```
ft <- flextable(iris)</pre>
ft <- width(ft, width = 1)</pre>
```

xtable_to_flextable get a flextable from a xtable object

Description

Get a flextable object from a xtable object.

xtable_to_flextable 75

Usage

```
xtable_to_flextable(x, text.properties = officer::fp_text(),
  format.args = getOption("xtable.format.args", NULL),
  rowname_col = "rowname",
  hline.after = getOption("xtable.hline.after", c(-1, 0, nrow(x))),
  NA.string = getOption("xtable.NA.string", ""),
  include.rownames = TRUE,
  rotate.colnames = getOption("xtable.rotate.colnames", FALSE))
```

Arguments

```
xtable object
text.properties
                 default text formatting properties
                List of arguments for the formatC function. See argument format.args of
format.args
                 print.xtable. Not yet implemented.
                 colname used for row names column
rowname_col
hline.after
                 see ?print.xtable.
NA.string
                see ?print.xtable.
include.rownames
                 see ?print.xtable.
rotate.colnames
                see ?print.xtable.
```

```
library(officer)
if( require("xtable") ){
 data(tli)
 tli.table <- xtable(tli[1:10, ])</pre>
 align(tli.table) <- rep("r", 6)</pre>
 align(tli.table) <- "|r|r|clr|r|"
 ft <- xtable_to_flextable(</pre>
   tli.table,
   rotate.colnames = TRUE,
   include.rownames = FALSE)
 ft <- height(ft, i = 1, part = "header", height = 1)</pre>
 ft
 Grade3 <- c("A", "B", "B", "A", "B", "C", "C", "C", "D", "A", "B",
   "C", "C", "C", "D", "B", "B", "D", "C", "C", "D")
 Cohort <- table(Grade3, Grade6)</pre>
 ft <- xtable_to_flextable(xtable(Cohort))</pre>
 ft <- set_header_labels(ft, rowname = "Grade 3")</pre>
 ft <- autofit(ft)</pre>
```

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```
ft <- add_header(ft, A = "Grade 6")
ft <- merge_at(ft, i = 1, j = seq_len( ncol(Cohort) ) + 1,
    part = "header" )
ft <- bold(ft, j = 1, bold = TRUE, part = "body")
ft <- height_all(ft, part = "header", height = .4)
ft

temp.ts <- ts(cumsum(1 + round(rnorm(100), 0)),
    start = c(1954, 7), frequency = 12)
xtable_to_flextable(x = xtable(temp.ts, digits = 0),
    NA.string = "-")
}</pre>
```

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