

Package ‘flextable’

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Type Package

Title Functions for Tabular Reporting

Version 0.5.10

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

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R topics documented:

flextable-package	4
add_header	4
add_header_lines	6
add_header_row	7
align	8
as_b	9
as_bracket	10
as_chunk	11
as_flextable	12
as_flextable.glm	12
as_flextable.grouped_data	13
as_flextable.htest	14
as_flextable.lm	15
as_flextable.xtable	16
as_grouped_data	18
as_i	19
as_image	20
as_paragraph	21
as_raster	22
as_sub	23
as_sup	24
autofit	25
bg	26
body_add_flextable	27
bold	28
border	29
border_inner	30
border_inner_h	31
border_inner_v	32
border_outer	33
border_remove	34
colformat_char	34
colformat_int	36
colformat_lgl	37
colformat_num	38
color	39
compose	40
continuous_summary	41
delete_part	42
dim.flextable	43
dim_pretty	43
docx_value	44
empty_blanks	45
fit_to_width	46
fix_border_issues	47
flextable	47

flextable-defunct	49
flextable_dim	49
flextable_html_dependency	50
font	50
fontsize	51
footers_flextable_at_bkm	52
footnote	52
headers_flextable_at_bkm	54
height	54
hline	55
hline_bottom	56
hline_top	57
hrule	58
htmltools_value	59
hyperlink_text	59
italic	60
knit_print.flextable	61
linorange	63
lollipop	65
merge_at	66
merge_h	67
merge_h_range	68
merge_none	68
merge_v	69
minibar	70
padding	72
ph_with.flextable	73
ph_with_flextable	74
plot.flextable	74
print.flextable	75
proc_freq	76
rotate	77
save_as_docx	78
save_as_html	79
save_as_image	80
save_as_pptx	81
set_caption	81
set_formatter	82
set_header_footer_df	84
set_header_labels	85
set_table_properties	86
style	87
theme_alafoli	88
theme_booktabs	88
theme_box	89
theme_tron	89
theme_tron_legacy	90
theme_vader	91

theme_vanilla	91
theme_zebra	92
valign	93
vline	94
vline_left	95
vline_right	96
void	97
width	97
Index	99

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://davidgohe1.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.

Illustrations**Note**

when repeating values, they can be merged together with function [merge_h](#) and [merge_v](#).

See Also

Other headers and footers: [add_header_lines\(\)](#), [add_header_row\(\)](#), [set_header_footer_df](#), [set_header_labels\(\)](#)

Examples

```
ft <- flextable( head( iris ),
  col_keys = c("Species", "Sepal.Length", "Petal.Length",
    "Sepal.Width", "Petal.Width" )

# start with no header
ft <- delete_part(ft, part = "header")

# 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",
  Sepal.Width = "Inches", Petal.Length = "Inches",
  Petal.Width = "Inches", top = TRUE )
# merge horizontally when there are identical values
ft <- merge_h(ft, part = "header")

# add a footnote in the footer part
ft <- add_footer(ft, Species = "This is a note in footer" )
ft <- merge_at(ft, j = 1:5, part = "footer")

# theme the table
ft <- theme_box(ft)

ft
```

add_header_lines	<i>Add a label in a header or footer new row.</i>
------------------	---

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.

Usage

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

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

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.

Illustrations

See Also

Other headers and footers: [add_header_row\(\)](#), [add_header\(\)](#), [set_header_footer_df](#), [set_header_labels\(\)](#)

Examples

```
ft_1 <- flextable( head( iris ) )
ft_1 <- add_header_lines(ft_1, values = "blah blah")
ft_1 <- add_header_lines(ft_1, values = c("blah 1", "blah 2"))
ft_1 <- autofit(ft_1)
ft_1
ft_2 <- flextable( head( iris ) )
ft_2 <- add_footer_lines(ft_2, values = "blah blah")
ft_2 <- add_footer_lines(ft_2, values = c("blah 1", "blah 2"))
ft_2 <- theme_tron(ft_2)
ft_2
```

add_header_row	<i>Add labels and merge cells in a new header or footer row</i>
----------------	---

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

Illustrations

See Also

Other headers and footers: [add_header_lines\(\)](#), [add_header\(\)](#), [set_header_footer_df](#), [set_header_labels\(\)](#)

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 <- theme_tron(ft)
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
```

align	<i>Set text alignment</i>
-------	---------------------------

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

Illustrations

See Also

Other sugar functions for table style: [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
ft <- flextable(head(mtcars)[,3:6])
ft <- align(ft, align = "right", part = "all")
ft <- theme_tron_legacy(ft)
ft
ftab <- flextable(mtcars)
ftab <- align_text_col(ftab, align = "left")
ftab <- align_nottext_col(ftab, align = "right")
ftab
```

`as_b`*bold chunk*

Description

The function is producing a chunk with bold font.

Usage

```
as_b(x)
```

Arguments

`x` value, if a chunk, the chunk will be updated

Illustrations

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\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

Examples

```
ft <- flextable( head(iris),
  col_keys = c("Sepal.Length", "dummy") )
```

```
ft <- compose(ft, j = "dummy",
  value = as_paragraph(
    as_b(Sepal.Length)
  ) )
```

```
ft
```

as_bracket	<i>chunk with values in brackets</i>
------------	--------------------------------------

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 ')'

Illustrations

See Also

Other chunk elements for paragraph: [as_b\(\)](#), [as_chunk\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [hyperlink_text\(\)](#), [linerange\(\)](#), [lollipop\(\)](#), [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) ) )
ft
```

as_chunk	<i>chunk of text wrapper</i>
----------	------------------------------

Description

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

Usage

```
as_chunk(x, props = NULL, formatter = format_fun, ...)
```

Arguments

x	text or any element that can be formatted as text with function provided in argument <code>formatter</code> .
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.
formatter	a function that will format x as a character vector.
...	additional arguments for <code>formatter</code> function.

Illustrations

See Also

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [hyperlink_text\(\)](#), [linerange\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

Examples

```
library(officer)

ft <- flextable( head(iris))

ft <- compose( ft, j = "Sepal.Length",
  value = as_paragraph(
    "Sepal.Length value is ",
    as_chunk(Sepal.Length, props = fp_text(color = "red"))
  ),
  part = "body")
ft <- color(ft, color = "gray40", part = "all")
ft <- autofit(ft)
ft
```

as_flextable	<i>method to convert object to flextable</i>
--------------	--

Description

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

Usage

```
as_flextable(x, ...)
```

Arguments

x	object to be transformed as flextable
...	arguments for custom methods

See Also

Other as_flextable methods: [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.xtable\(\)](#)

as_flextable.glm	<i>tabular summary for glm object</i>
------------------	---------------------------------------

Description

produce a flextable describing a generalized linear model produced by function glm.

Usage

```
## S3 method for class 'glm'  
as_flextable(x, ...)
```

Arguments

x	glm model
...	unused argument

Illustrations**See Also**

Other as_flextable methods: [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```
if(require("broom")){
  dat <- attitude
  dat$high.rating <- (dat$rating > 70)
  probit.model <- glm(high.rating ~ learning + critical +
    advance, data=dat, family = binomial(link = "probit"))
  ft <- as_flextable(probit.model)
  ft
}
```

as_flextable.grouped_data

tabular summary for grouped_data object

Description

produce a flextable from a table produced by function [as_grouped_data\(\)](#).

Usage

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

Arguments

x	object to be transformed as flextable
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.
hide_grouplabel	if TRUE, group label will not be rendered, only level/value will be rendered.
...	unused argument

Illustrations

See Also

[as_grouped_data\(\)](#)

Other `as_flextable` methods: [as_flextable.glm\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```

library(data.table)
C02 <- C02
setDT(C02)
C02$conc <- as.integer(C02$conc)

data_co2 <- dcast(C02, Treatment + conc ~ Type,
                 value.var = "uptake", fun.aggregate = mean)
data_co2 <- as_grouped_data(x = data_co2, groups = c("Treatment"))

ft <- as_flextable( data_co2 )
ft <- add_footer_lines(ft, "dataset C02 has been used for this flextable")
ft <- add_header_lines(ft, "mean of carbon dioxide uptake in grass plants")
ft <- set_header_labels(ft, conc = "Concentration")
ft <- autofit(ft)
ft <- width(ft, width = c(1, 1, 1))
ft

```

as_flextable.htest *tabular summary for htest object*

Description

produce a flextable describing an object of class htest.

Usage

```

## S3 method for class 'htest'
as_flextable(x, ...)

```

Arguments

x	htest object
...	unused argument

Illustrations**See Also**

Other as_flextable methods: [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```

if(require("stats")){
  M <- as.table(rbind(c(762, 327, 468), c(484, 239, 477)))
  dimnames(M) <- list(gender = c("F", "M"),
    party = c("Democrat", "Independent", "Republican"))
  ft_1 <- as_flextable(chisq.test(M))
  ft_1
}

```

as_flextable.lm *tabular summary for lm object*

Description

produce a flextable describing a linear model produced by function `lm`.

Usage

```

## S3 method for class 'lm'
as_flextable(x, ...)

```

Arguments

<code>x</code>	lm model
<code>...</code>	unused argument

Illustrations**See Also**

Other `as_flextable` methods: [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```

if(require("broom")){
  lmod <- lm(rating ~ complaints + privileges +
    learning + raises + critical, data=attitude)
  ft <- as_flextable(lmod)
  ft
}

```

as_flextable.xtable *get a flextable from a xtable object*

Description

Get a flextable object from a xtable object.

xtable_to_flextable will be deprecated in favor of as_flextable.xtable.

Usage

```
## S3 method for class 'xtable'
as_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),
  ...
)

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

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


```

include.rownames
                see ?print.xtable.
rotate.colnames
                see ?print.xtable.
...
                unused arguments

```

Illustrations

See Also

Other `as_flextable` methods: [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.lm\(\)](#), [as_flextable\(\)](#)

Examples

```

library(officer)
if( require("xtable" ) ){

  data(tli)
  tli.table <- xtable(tli[1:10, ])
  align(tli.table) <- rep("r", 6)
  align(tli.table) <- "|r|r|clr|r|"
  ft_1 <- as_flextable(
    tli.table,
    rotate.colnames = TRUE,
    include.rownames = FALSE)
  ft_1 <- height(ft_1, i = 1, part = "header", height = 1)
  ft_1

  Grade3 <- c("A", "B", "B", "A", "B", "C", "C", "D", "A", "B",
    "C", "C", "C", "D", "B", "B", "D", "C", "C", "D")
  Grade6 <- c("A", "A", "A", "B", "B", "B", "B", "B", "C", "C",
    "A", "C", "C", "C", "D", "D", "D", "D", "D")
  Cohort <- table(Grade3, Grade6)
  ft_2 <- as_flextable(xtable(Cohort))
  ft_2 <- set_header_labels(ft_2, rowname = "Grade 3")
  ft_2 <- autofit(ft_2)
  ft_2 <- add_header(ft_2, A = "Grade 6")
  ft_2 <- merge_at(ft_2, i = 1, j = seq_len( ncol(Cohort) ) + 1,
    part = "header" )
  ft_2 <- bold(ft_2, j = 1, bold = TRUE, part = "body")
  ft_2 <- height_all(ft_2, part = "header", height = .4)
  ft_2

  temp.ts <- ts(cumsum(1 + round(rnorm(100), 0)),
    start = c(1954, 7), frequency = 12)
  ft_3 <- as_flextable(x = xtable(temp.ts, digits = 0),
    NA.string = "-")
  ft_3

```

```
  detach("package:xtable", unload = TRUE)
}
```

as_grouped_data	<i>grouped data transformation</i>
-----------------	------------------------------------

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	dataset
groups	columns names to be used as row separators.
columns	columns names to keep

See Also

[as_flextable.grouped_data](#)

Examples

```
# as_grouped_data -----
library(data.table)
C02 <- C02
setDT(C02)
C02$conc <- as.integer(C02$conc)

data_co2 <- dcast(C02, Treatment + conc ~ Type,
  value.var = "uptake", fun.aggregate = mean)
data_co2
data_co2 <- as_grouped_data(x = data_co2, groups = c("Treatment"))
data_co2
```

as_i	<i>italic chunk</i>
------	---------------------

Description

The function is producing a chunk with italic font.

Usage

```
as_i(x)
```

Arguments

x value, if a chunk, the chunk will be updated

Illustrations**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\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

Examples

```
ft <- flextable( head(iris),
  col_keys = c("Sepal.Length", "dummy") )

ft <- compose(ft, j = "dummy",
  value = as_paragraph(as_i(Sepal.Length)) )

ft
```

as_image	<i>image chunk wrapper</i>
----------	----------------------------

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 filename
width, height	size of the png file in inches
...	unused argument

Illustrations

Note

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting 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\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

Examples

```
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")

ft <- autofit(myft)
ft

```

as_paragraph	<i>concatenate chunks in a flextable</i>
--------------	--

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.

Illustrations

See Also

[as_chunk](#), [minibar](#), [as_image](#), [hyperlink_text](#)

Examples

```

library(officer)
ft <- flextable( head(iris, n = 10 ))

ft <- compose(ft, j = 1,
  value = as_paragraph(
    minibar(value = Sepal.Length, max = max(Sepal.Length)),
    " ",
    as_chunk( Sepal.Length, formatter = formatC,
      props = fp_text(color = "orange" ) ),
    " blah blah"
  ),
  part = "body")

ft <- autofit(ft)
ft

```

as_raster	<i>get a flextable as a raster</i>
-----------	------------------------------------

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, webshot = "webshot")
```

Arguments

x	a flextable object
zoom, expand	parameters used by webshot function.
webshot	webshot package as a scalar character, one of "webshot" or "webshot2".

Note

This function requires packages: webshot and magick.

See Also

Other flextable print function: [docx_value\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

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)
```

as_sub	<i>subscript chunk</i>
--------	------------------------

Description

The function is producing a chunk with subscript vertical alignment.

Usage

```
as_sub(x)
```

Arguments

x value, if a chunk, the chunk will be updated

Illustrations

Note

This is a sugar function that ease the composition of complex labels made of different formatings. 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\(\)](#), [lollipop\(\)](#), [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 "
  ) )

ft <- autofit(ft)
ft
```

`as_sup`*superscript chunk*

Description

The function is producing a chunk with superscript vertical alignment.

Usage

```
as_sup(x)
```

Arguments

`x` value, if a chunk, the chunk will be updated

Illustrations

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\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

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")
  ) )

ft <- autofit(ft)
ft
```

autofit	<i>Adjusts cell widths and heights</i>
---------	--

Description

compute and apply optimized widths and heights (minimum estimated widths and heights for each table columns and rows in inches returned by function [dim_pretty\(\)](#)).

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, part = c("body", "header"))
```

Arguments

x	flextable object
add_w	extra width to add in inches
add_h	extra height to add in inches
part	partname of the table (one of 'all', 'body', 'header' or 'footer')

line breaks

Soft returns (a line break in a paragraph) are not supported. Function `autofit` will return wrong results if `\n` are used (they will be considered as "").

Illustrations

Note

This function is not related to 'Microsoft Word' *Autofit* feature.

See Also

Other flextable dimensions: [dim.flextable\(\)](#), [dim_pretty\(\)](#), [fit_to_width\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [hrule\(\)](#), [set_table_properties\(\)](#), [width\(\)](#)

Examples

```
ft_1 <- flextable(head(mtcars))
ft_1
ft_2 <- autofit(ft_1)
ft_2
```

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", source = j)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection
bg	color to use as background color. If a function, function need to return a character vector of colors.
part	partname of the table (one of 'all', 'body', 'header', 'footer')
source	if bg is a function, source is specifying the dataset column to be used as argument to bg. This is only useful if j is colored with values contained in another (or other) column.

Illustrations

See Also

Other sugar functions for table style: [align\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
ft_1 <- flextable(head(mtcars))
ft_1 <- bg(ft_1, bg = "wheat", part = "header")
ft_1 <- bg(ft_1, i = ~ qsec < 18, bg = "#EFEFEF", part = "body")
ft_1 <- bg(ft_1, j = "drat", bg = "#606060", part = "all")
ft_1 <- color(ft_1, j = "drat", color = "white", part = "all")
ft_1

if(require("scales")){
  ft_2 <- flextable(head(iris))
  colourer <- col_numeric(
    palette = c("wheat", "red"),
    domain = c(0, 7))
  ft_2 <- bg(ft_2, j = c("Sepal.Length", "Sepal.Width",
```

```
        "Petal.Length", "Petal.Width"),
    bg = colourer, part = "body")
ft_2
}
```

body_add_flexible *add flexible into a Word document*

Description

add a flexible into a Word document.

Usage

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

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

Arguments

x	an rdocx object
value	flexible object
align	left, center (default) or right.
pos	where to add the flexible 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_flexible_at_bkm

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

Examples

```

library(officer)

# autonum for caption
autonum <- run_autonum(seq_id = "tab", bkm = "mtcars")

ftab <- flextable( head( mtcars ) )
ftab <- set_caption(ftab, caption = "mtcars data", autonum = autonum)
ftab <- autofit(ftab)
doc <- read_docx()
doc <- body_add_flextable(doc, value = ftab)
fileout <- tempfile(fileext = ".docx")
# fileout <- "test.docx" # uncomment to write in your working directory
print(doc, target = fileout)

```

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

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

Illustrations**See Also**

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```

ft <- flextable(head(iris))
ft <- bold(ft, bold = TRUE, part = "header")

```

border	<i>Set cell borders</i>
--------	-------------------------

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

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

Note

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\(\)](#)

Examples

```
library(officer)
ftab <- flextable(head(mtcars))
ftab <- border(ftab, border.top = fp_border(color = "orange") )
ftab
```

border_inner	<i>set vertical & horizontal inner borders</i>
--------------	--

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')

Illustrations

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
```

border_inner_h	<i>set inner borders</i>
----------------	--------------------------

Description

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

Usage

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

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')

Illustrations

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
```

border_inner_v	<i>set vertical inner borders</i>
----------------	-----------------------------------

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')

Illustrations

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\(\)](#)

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
```

border_outer	<i>set outer borders</i>
--------------	--------------------------

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')

Illustrations

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\(\)](#)

Examples

```
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
```

border_remove	<i>remove borders</i>
---------------	-----------------------

Description

The function is deleting all borders of the flextable object.

Usage

```
border_remove(x)
```

Arguments

x a flextable object

Illustrations

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_1 <- flextable(dat)
ft_1 <- theme_box(ft_1)
ft_1

# remove all borders
ft_2 <- border_remove(x = ft_1)
ft_2
```

colformat_char	<i>format character cells</i>
----------------	-------------------------------

Description

Format character cells in a flextable.

Usage

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

Arguments

x	a flextable object
...	additional arguments, i can be used to specify a row selector.
j	columns selection.
col_keys	names of the colkeys. Will be deprecated in favor of j in the next version.
na_str	string to be used for NA values
prefix, suffix	string to be used as prefix or suffix

Illustrations**See Also**

Other cells formatters: [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [compose\(\)](#)

Examples

```
dat <- iris  
ft <- flextable(head(dat))  
ft <- colformat_char(  
  x = ft, j = "Species", suffix = "!")  
ft <- autofit(ft)
```

colformat_int *format integer cells*

Description

Format integer cells in a flextable.

Usage

```
colformat_int(x, ...)

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

Arguments

x	a flextable object
...	additional arguments, i can be used to specify a row selector.
j	columns selection.
col_keys	names of the colkeys. Will be deprecated in favor of j in the next version.
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

Illustrations

See Also

Other cells formatters: [colformat_char\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [compose\(\)](#)

Examples

```
ft <- flextable(head(mtcars))
j <- c("vs", "am", "gear", "carb")
ft <- colformat_int(x = ft, j = j, prefix = "# ")
ft
```

colformat_lgl *format logical cells*

Description

Format logical cells in a flextable.

Usage

```
colformat_lgl(x, ...)

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

Arguments

x	a flextable object
...	additional arguments, i can be used to specify a row selector.
j	columns selection.
col_keys	names of the colkeys. Will be deprecated in favor of j in the next version.
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

Illustrations

See Also

Other cells formatters: [colformat_char\(\)](#), [colformat_int\(\)](#), [colformat_num\(\)](#), [compose\(\)](#)

Examples

```
dat <- data.frame(a = c(TRUE, FALSE), b = c(FALSE, TRUE))

ft <- flextable(dat)
ft <- colformat_lgl(x = ft, j = c("a", "b"))
autofit(ft)
```

colformat_num	<i>format numeric cells</i>
---------------	-----------------------------

Description

Format numeric cells in a flextable.

Usage

```
colformat_num(x, ...)

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

Arguments

x	a flextable object
...	additional arguments, i can be used to specify a row selector.
j	columns selection.
col_keys	names of the colkeys. Will be deprecated in favor of j in the next version.
big.mark, digits	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

Illustrations**See Also**

Other cells formatters: `colformat_char()`, `colformat_int()`, `colformat_lgl()`, `compose()`

Examples

```
dat <- iris
dat[1:4, 1] <- NA
dat[, 2] <- dat[, 2] * 1000000

ft <- flextable(head(dat))
j = c("Sepal.Length", "Sepal.Width",
      "Petal.Length", "Petal.Width")
ft <- colformat_num(
  x = ft, j = j,
  big.mark="," , digits = 2, na_str = "N/A")
autofit(ft)
```

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", source = j)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection
color	color to use as font color. If a function, function need to return a character vector of colors.
part	partname of the table (one of 'all', 'body', 'header', 'footer')
source	if bg is a function, source is specifying the dataset column to be used as argument to color. This is only useful if j is colored with values contained in another (or other) column.

Illustrations

See Also

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
ft <- flextable(head(mtcars))
ft <- color(ft, color = "orange", part = "header")
ft <- color(ft, color = "red",
  i = ~ qsec < 18 & vs < 1 )
ft

if(require("scales")){
scale <- scales::col_numeric(domain= c(-1, 1), palette = "RdBu")
x <- as.data.frame(cor(iris[-5]))
x <- cbind(
  data.frame(colname = colnames(x),
    stringsAsFactors = FALSE),
  x)

ft_2 <- flextable(x)
ft_2 <- color(ft_2, j = x$colname, color = scale)
ft_2 <- set_formatter_type(ft_2)
ft_2
}
```

 compose

Define flextable displayed values

Description

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

Usage

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

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

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')

Illustrations

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)
```

continuous_summary *continuous columns summary*

Description

create a data.frame summary for continuous variables

Usage

```
continuous_summary(
  dat,
  columns = NULL,
  by = character(0),
  hide_grouplabel = TRUE,
  digits = 3
)
```

Arguments

<code>dat</code>	a data.frame
<code>columns</code>	continuous variables to be summarized. If <code>NULL</code> all continuous variables are summarized.
<code>by</code>	discrete variables to use as groups when summarizing.
<code>hide_grouplabel</code>	if <code>TRUE</code> , group label will not be rendered, only level/value will be rendered.
<code>digits</code>	the desired number of digits after the decimal point

Illustrations

Examples

```
ft_1 <- continuous_summary(iris, names(iris)[1:4], by = "Species",
  hide_grouplabel = FALSE)
ft_1
```

delete_part	<i>delete flextable part</i>
-------------	------------------------------

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').

Illustrations

Examples

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

dim.flextable	<i>Get widths and heights of flextable</i>
---------------	--

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

x flextable object

See Also

Other flextable dimensions: [autofit\(\)](#), [dim_pretty\(\)](#), [fit_to_width\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [hrule\(\)](#), [set_table_properties\(\)](#), [width\(\)](#)

Examples

```
ftab <- flextable(head(iris))  
dim(ftab)
```

dim_pretty	<i>Calculate pretty dimensions</i>
------------	------------------------------------

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')

line breaks

Soft returns (a line break in a paragraph) are not supported. Function `dim_pretty` will return wrong results if `\n` are used (they will be considered as "").

See Also

Other flextable dimensions: [autofit\(\)](#), [dim.flextable\(\)](#), [fit_to_width\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [hrule\(\)](#), [set_table_properties\(\)](#), [width\(\)](#)

Examples

```
ftab <- flextable(head(mtcars))
dim_pretty(ftab)
```

docx_value	<i>flextable Office Open XML string for Word</i>
------------	--

Description

get openxml raw code for Word from a flextable object.

The function is particularly useful when you want to generate flextable in a loop from a R Markdown document. By default, the output is printed and is returned as a character scalar.

When used inside an R Markdown document, chunk option results must be set to 'asis'.

Arguments `ft.align` and `ft.split` can be specified also as knitr chunk options.

Usage

```
docx_value(
  x,
  print = TRUE,
  ft.align = opts_current$get("ft.align"),
  ft.split = opts_current$get("ft.split"),
  bookdown = FALSE
)
```

Arguments

<code>x</code>	a flextable object
<code>print</code>	print output if TRUE
<code>ft.align</code>	flextable alignment, supported values are 'left', 'center' and 'right'.
<code>ft.split</code>	Word option 'Allow row to break across pages' can be activated when TRUE.
<code>bookdown</code>	TRUE or FALSE (default) to support cross referencing with bookdown.

See Also

Other flextable print function: [as_raster\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

Examples

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

empty_blanks	<i>make blank columns as transparent</i>
--------------	--

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

x a flextable object

See Also

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

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

ftab <- flextable(head(iris), col_keys = c("Species",
    "break1", "Sepal.Length", "Sepal.Width",
    "break2", "Petal.Length", "Petal.Width" ) )
ftab <- set_header_df(ftab, mapping = typology, key = "col_keys" )
ftab <- merge_h(ftab, part = "header")
ftab <- theme_vanilla(ftab)
ftab <- empty_blanks(ftab)
ftab <- width(ftab, j = c(2, 5), width = .1 )
ftab
```

fit_to_width	<i>fit a flextable to a maximum width</i>
--------------	---

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

Illustrations

See Also

Other flextable dimensions: [autofit\(\)](#), [dim.flextable\(\)](#), [dim_pretty\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [hrule\(\)](#), [set_table_properties\(\)](#), [width\(\)](#)

Examples

```
ft_1 <- qflexible(head(mtcars))
ft_1 <- padding(ft_1, padding = 0, part = "all")
ft_1 <- width(ft_1, width = 1)
ft_1

ft_2 <- fit_to_width(ft_1, max_width = 5.5)
ft_2
```

fix_border_issues	<i>fix border issues when cell are merged</i>
-------------------	---

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.

Usage

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

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	<i>flextable creation</i>
-----------	---------------------------

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 easilly 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

<code>data</code>	dataset
<code>col_keys</code>	columns names/keys to display. If some column names are not in the dataset, they will be added as blank columns by default.
<code>cwidth, cheight</code>	initial width and height to use for cell sizes in inches.
<code>defaults</code>	a list of default values for formats, supported options are <code>fontname</code> , <code>font.size</code> , <code>color</code> and <code>padding</code> .
<code>theme_fun</code>	a function theme to apply before returning the flextable. set to <code>NULL</code> 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 the table should be modified.

Illustrations**qflextable**

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

Note

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

See Also

[style\(\)](#), [autofit\(\)](#), [theme_booktabs\(\)](#), [knit_print.flextable\(\)](#), [compose\(\)](#), [footnote\(\)](#)

Examples

```
ft <- flextable(head(mtcars))
ft
```

flextable-defunct	<i>Defunct Functions in Package flextable</i>
-------------------	---

Description

Defunct Functions in Package flextable

Usage

```
ph_with_flextable_at(...)  
display(...)
```

Arguments

... unused arguments

Details

ph_with_flextable_at() is replaced by officer::ph_with.
display() is replaced by compose.

flextable_dim	<i>width and height of a flextable object</i>
---------------	---

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 flexible dimensions: `autofit()`, `dim.flextable()`, `dim_pretty()`, `fit_to_width()`, `height()`, `hrule()`, `set_table_properties()`, `width()`

Examples

```
ftab <- flextable(head(iris))
flextable_dim(ftab)
ftab <- autofit(ftab)
flextable_dim(ftab)
```

`flextable_html_dependency`

htmlDependency for flextable objects

Description

When using loops in an R Markdown for HTML document, the `htmlDependency` object for `flextable` must also be added at least once.

Usage

```
flextable_html_dependency()
```

Examples

```
if(require("htmltools"))
  div(flextable_html_dependency())
```

`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

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

Illustrations**See Also**

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
require("gdttools")
fontname <- "Brush Script MT"

if( font_family_exists(fontname) ){
  ft_1 <- flextable(head(iris))
  ft_2 <- font(ft_1, fontname = fontname, part = "header")
  ft_2 <- font(ft_2, fontname = fontname, j = 5)
  ft_2
}
```

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')

Illustrations**See Also**

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
ft <- flextable(head(iris))
ft <- fontsize(ft, size = 14, part = "header")
ft <- fontsize(ft, size = 14, j = 2)
ft <- fontsize(ft, size = 7, j = 3)
ft
```

```
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.

Usage

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

Arguments

x	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 appended where the footnote is defined and the note is appended in the footer part of the table.

Usage

```
footnote(
  x,
  i = NULL,
  j = NULL,
  value,
  ref_symbols = NULL,
  part = "body",
  inline = FALSE,
  sep = "; "
)
```

Arguments

x	a flextable object
i	rows selection
j	column selection
value	a call to function <code>as_paragraph</code> .
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')
inline	whether to add footnote on same line as previous footnote or not
sep	inline = T, character string to use as a separator between footnotes

Illustrations**Examples**

```
ft_1 <- flextable(head(iris))
ft_1 <- footnote( ft_1, i = 1, j = 1:3,
  value = as_paragraph(
    c("This is footnote one",
      "This is footnote two",
      "This is footnote three")
  ),
  ref_symbols = c("a", "b", "c"),
  part = "header")
ft_1 <- valign(ft_1, valign = "bottom", part = "header")
ft_1 <- autofit(ft_1)

ft_2 <- flextable(head(iris))
ft_2 <- autofit(ft_2)
ft_2 <- footnote( ft_2, i = 1, j = 1:2,
  value = as_paragraph(
    c("This is footnote one",
      "This is footnote two")
  ),
  ref_symbols = c("a", "b"),
  part = "header", inline = TRUE)
ft_2 <- footnote( ft_2, i = 1, j = 3:4,
  value = as_paragraph(
    c("This is footnote three",
      "This is footnote four")
  ),
  ref_symbols = c("c","d"),
  part = "header", inline = TRUE)

ft_2
```

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.

Usage

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

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	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\(\)](#), [hrule\(\)](#), [set_table_properties\(\)](#), [width\(\)](#)

Examples

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

ftab <- flextable(head(iris))
ftab <- height_all(ftab, height = .3)
ftab
```

hline	<i>set horizontal borders</i>
-------	-------------------------------

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')

Illustrations**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\(\)](#)

Examples

```
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
```

hline_bottom	<i>set bottom horizontal border</i>
--------------	-------------------------------------

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')

Illustrations**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
```

hline_top	<i>set top horizontal border</i>
-----------	----------------------------------

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.

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')

Illustrations

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
```

hrule *Set flexible rule for rows heights*

Description

control rules of each height for a part of the flextable, this is only for Word and HTML outputs, it will not have any effect when output is PowerPoint.

Usage

```
hrule(x, i = NULL, rule = "auto", part = "body")
```

Arguments

x	flextable object
i	rows selection
rule	specify the meaning of the height. Possible values are "atleast" (height should be at least the value specified), "exact" (height should be exactly the value specified), or the default value "auto" (height is determined based on the height of the contents, so the value is ignored). See details for more informations.
part	partname of the table, one of "all", "header", "body", "footer"

Illustrations

See Also

Other flextable dimensions: [autofit\(\)](#), [dim.flextable\(\)](#), [dim_pretty\(\)](#), [fit_to_width\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [set_table_properties\(\)](#), [width\(\)](#)

Examples

```
ft_1 <- flextable(head(iris))
ft_1 <- width(ft_1, width = 1.5)
ft_1 <- height(ft_1, height = 0.75, part = "header")
ft_1 <- hrule(ft_1, rule = "exact", part = "header")
ft_1

ft_2 <- hrule(ft_1, rule = "auto", part = "header")
ft_2
```

htmltools_value *flextable as a div object*

Description

get a `div` from a flextable object. This can be used in a shiny application.
Argument `ft.align` can be specified also as knitr chunk options.

Usage

```
htmltools_value(
  x,
  ft.align = opts_current$get("ft.align"),
  class = "tabwid",
  bookdown = FALSE
)
```

Arguments

<code>x</code>	a flextable object
<code>ft.align</code>	flextable alignment, supported values are 'left', 'center' and 'right'.
<code>class</code>	css classes (default to "tabwid"), if <code>ft.align</code> is set to 'left' or 'right', class 'tabwid_left' or 'tabwid_right' will be added to class.
<code>bookdown</code>	TRUE or FALSE (default) to support cross referencing with bookdown.

See Also

Other flextable print function: [as_raster\(\)](#), [docx_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

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, formatter = format_fun, url, ...)
```

Arguments

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

Note

This chunk option requires package `officedown` in a R Markdown context with Word output format.

See Also

[display](#)

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_chunk\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [linerange\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

Examples

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

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

`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')

Illustrations**See Also**

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [padding\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
ft <- flextable(head(mtcars))
ft <- italic(ft, italic = TRUE, part = "header")
```

knit_print.flextable *Render flextable in rmarkdown*

Description

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

Usage

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

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.

Table captioning is a flextable feature compatible with knitr. Three methods are available and are presented below in order of triggering:

- with the `set_caption` function, if the function is used, this definition will be chosen.
- with knitr's chunk options:
 - `tab.cap.style`: Word style name to use for table captions.
 - `tab.cap.pre`: Prefix for numbering chunk (default to "Table").
 - `tab.cap.sep`: Suffix for numbering chunk (default to ": ").
 - `tab.cap`: Caption label.
 - `tab.id`: Caption reference unique identifier.
- with knitr chunk and bookdown options (if you're in a bookdown):
 - `tab.cap.style`: Word style name to use for table captions.
 - `tab.cap.pre`: Prefix for numbering chunk (default to "Table").
 - `tab.cap.sep`: Suffix for numbering chunk (default to ": ").
 - `tab.cap`: Caption label.
 - `label`: Caption reference unique identifier.

PowerPoint chunk options

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

PDF chunk options

Using flextable with template `pdf_document` is OK if the flextable fits on one single page. The PDF output is not a real latex output but a PNG image generated with package 'webshot' or package 'webshot2'. Package 'webshot2' should be preferred as 'webshot' can have issues with some properties (i.e. bold are not rendered for some users).

To specify usage of 'webshot2', use chunk option `webshot="webshot2"`.

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\(\)](#), [htmltools_value\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

Examples

```
# simple examples -----
demo_docx <- system.file(package = "flextable", "examples/rmd", "demo.Rmd")
rmd_file <- tempfile(fileext = ".Rmd")
file.copy(demo_docx, to = rmd_file, overwrite = TRUE)
rmd_file # R Markdown document used for demo
if(require("rmarkdown", quietly = TRUE)){
# knitr::opts_chunk$set(webshot = "webshot2")
# render(input = rmd_file, output_format = "word_document", output_file = "doc.docx")
# render(input = rmd_file, output_format = "pdf_document", output_file = "doc.pdf")
# render(input = rmd_file, output_format = "html_document", output_file = "doc.html")
# render(input = rmd_file, output_format = "powerpoint_presentation", output_file = "pres.pptx")
# render(input = rmd_file, output_format = "slidy_presentation", output_file = "slidy.html")
# render(input = rmd_file, output_format = "beamer_presentation", output_file = "beamer.pdf")
# render(input = rmd_file, output_format = "pagedown::html_paged", output_file = "paged.html")
}

# looping examples for Word output -----
demo_loop <- system.file(package = "flextable", "examples/rmd", "loop_docx.Rmd")
rmd_file <- tempfile(fileext = ".Rmd")
file.copy(demo_loop, to = rmd_file, overwrite = TRUE)
rmd_file # R Markdown document used for demo
if(require("rmarkdown", quietly = TRUE)){
# render(input = rmd_file, output_format = "word_document", output_file = "loop_docx.docx")
}

# looping examples for HTML output -----
demo_loop <- system.file(package = "flextable", "examples/rmd", "loop_html.Rmd")
rmd_file <- tempfile(fileext = ".Rmd")
file.copy(demo_loop, to = rmd_file, overwrite = TRUE)
rmd_file # R Markdown document used for demo
if(require("rmarkdown", quietly = TRUE)){
# render(input = rmd_file, output_format = "html_document", output_file = "loop_html.html")
}
```

linrange

mini linrange chunk wrapper

Description

This function is used to insert linranges into flextable with function [compose](#). It should be used inside a call to [as_paragraph](#)

Usage

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

Arguments

value	values containing the bar size
min	min bar size. Default min of value
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

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting 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\(\)](#), [lollipop\(\)](#), [minibar\(\)](#)

Examples

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

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

autofit(myft)
```

lollipop	<i>mini lollipop chart chunk wrapper</i>
----------	--

Description

This function is used to insert lollipop charts into flextable with function [compose](#). It should be used inside a call to [as_paragraph](#)

Usage

```
lollipop(
  value,
  min = NULL,
  max = NULL,
  rangecol = "#CCCCCC",
  bg = "transparent",
  width = 1,
  height = 0.2,
  raster_width = 30,
  positivecol = "#00CC00",
  negativecol = "#CC0000",
  neutralcol = "#CCCCCC",
  neutralrange = c(0, 0),
  rectanglesize = 2
)
```

Arguments

value	values containing the bar size
min	min bar size. Default min of value
max	max bar size. Default max of value
rangecol	bar color
bg	background color
width, height	size of the resulting png file in inches
raster_width	number of pixels used as width
positivecol	box color of positive values
negativecol	box color of negative values
neutralcol	box color of neutral values
neutralrange	minimal and maximal range of neutral values (default: 0)
rectanglesize	size of the rectangle (default: 2, max: 5) when interpolating value.

Illustrations

Note

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting 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\(\)](#), [minibar\(\)](#)

Examples

```
iris$Sepal.Ratio <- (iris$Sepal.Length - mean(iris$Sepal.Length))/mean(iris$Sepal.Length)
ft <- flextable( tail(iris, n = 10 ) )

ft <- compose( ft, j = "Sepal.Ratio", value = as_paragraph(
  lollipop(value = Sepal.Ratio, min=-.25, max=.25)
),
part = "body")

ft <- autofit(ft)
ft
```

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
```

merge_h	<i>Merge flextable cells horizontally</i>
---------	---

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.

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
```

merge_h_range	<i>rowwise merge of a range of columns</i>
---------------	--

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.

Illustrations

See Also

Other flextable merging function: [merge_at\(\)](#), [merge_h\(\)](#), [merge_none\(\)](#), [merge_v\(\)](#)

Examples

```
ft <- flextable( head( mtcars ), cwidth = .5 )
ft <- theme_box( ft )
ft <- merge_h_range( ft, i = ~ cyl == 6, j1 = "am", j2 = "carb" )
ft <- flextable::align( ft, i = ~ cyl == 6, align = "center" )
ft
```

merge_none	<i>Delete flextable merging informations</i>
------------	--

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.

Illustrations**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
```

merge_v	<i>Merge flextable cells vertically</i>
---------	---

Description

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

Usage

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

Arguments

x	flextable object
j	column to used to find consecutive values to be merged. Columns from original dataset can also be used.
target	columns names where cells have to be merged.
part	partname of the table where merge has to be done.

Illustrations

See Also

Other flextable merging function: [merge_at\(\)](#), [merge_h_range\(\)](#), [merge_h\(\)](#), [merge_none\(\)](#)

Examples

```
ft_merge <- flextable(mtcars)
ft_merge <- merge_v(ft_merge, j = c("gear", "carb"))
ft_merge

data_ex <- structure(list(srdr_id = c(
  "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_1 <- flextable(data_ex)
ft_1 <- theme_box(ft_1)
ft_2 <- merge_v(ft_1, j = "srdr_id",
  target = c("srdr_id", "substances"))
ft_2
```

Description

This function is used to insert bars into flextable with function [compose](#). It should be used inside a call to [as_paragraph](#)

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

Illustrations**Note**

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting 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\(\)](#), [lollipop\(\)](#)

Examples

```
ft <- flextable( head(iris, n = 10 ))  
  
ft <- compose(ft, j = 1,  
  value = as_paragraph(  
    minibar(value = Sepal.Length, max = max(Sepal.Length))  
  ),  
  part = "body")  
  
ft <- autofit(ft)  
ft
```

padding *Set paragraph paddings*

Description

change paddings of selected rows and columns of a flextable.

Usage

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

Arguments

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

Illustrations

See Also

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [rotate\(\)](#), [valign\(\)](#)

Examples

```
ft_1 <- flextable(head(iris))
ft_1 <- theme_vader(ft_1)
ft_1 <- padding(ft_1, padding.top = 4, part = "all")
ft_1 <- padding(ft_1, j = 1, padding.right = 40)
ft_1 <- padding(ft_1, i = 3, padding.top = 40)
ft_1 <- padding(ft_1, padding.top = 10, part = "header")
ft_1 <- padding(ft_1, padding.bottom = 10, part = "header")
ft_1 <- autofit(ft_1)
ft_1
```

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, location, ...)
```

Arguments

x	a pptx device
value	flextable object
location	a location for a placeholder. See ph_location_type for example.
...	unused arguments.

Note

The width and height of the table can not be set with location. 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).

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)
```

ph_with_flextable *add flextable into a PowerPoint slide*

Description

add a flextable as a new shape in the current slide.

These functions is deprecated and method `ph_with` should be used instead.

Usage

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

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'.

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).

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 object
zoom, expand	parameters used by webshot function.
...	additional parameters sent to <code>as_raster()</code> function

Note

This function requires packages: `webshot` and `magick`.

See Also

Other flextable print function: [as_raster\(\)](#), [docx_value\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

Examples

```
ftab <- flextable( head( mtcars ) )
ftab <- autofit(ftab)
## Not run:
if( require("webshot") ){
  plot(ftab)
}

## End(Not run)
```

print.flextable	<i>flextable printing</i>
-----------------	---------------------------

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 <code>c("html", "pptx", "docx", "log")</code> . 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\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

proc_freq	<i>frequency table as flextable</i>
-----------	-------------------------------------

Description

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

Usage

```
proc_freq(
  x,
  row,
  col,
  main = "",
  include.row_percent = TRUE,
  include.column_percent = TRUE,
  include.table_percent = TRUE,
  include.column_total = TRUE,
  include.row_total = TRUE,
  include.header_row = TRUE,
  weight = NULL
)
```

Arguments

x	data.frame object
row	character column names for row
col	character column names for column
main	character title
include.row_percent	boolean whether to include the row percents; defaults to TRUE
include.column_percent	boolean whether to include the column percents; defaults to TRUE
include.table_percent	boolean whether to include the table percents; defaults to TRUE
include.column_total	boolean whether to include the row of column totals; defaults to TRUE
include.row_total	boolean whether to include the column of row totals; defaults to TRUE
include.header_row	boolean whether to include the header row; defaults to TRUE
weight	character column name for weight

Author(s)

Titouan Robert

Examples

```
proc_freq(mtcars, "vs", "gear")
proc_freq(mtcars, "gear", "vs")
proc_freq(mtcars, "gear", "vs", weight = "wt")
proc_freq(mtcars, "gear", "vs", "My title")
```

rotate	<i>rotate cell text</i>
--------	-------------------------

Description

apply a rotation to cell text. The text direction can be "lrb" which mean from left to right and top to bottom (the default direction). In some cases, it can be useful to be able to change the direction, when the table headers are huge for example, header labels can be rendered as "tblr" (top to bottom and right to left) corresponding to a 90 degrees rotation or "btlr" corresponding to a 270 degrees rotation.

Usage

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

Arguments

x	a flextable object
i	rows selection
j	columns selection
rotation	one of "lrb", "tblr", "btlr". Note that "btlr" is ignored when output is HTML.
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

When function `autofit` is used, the rotation will be ignored. In that case, use [dim_pretty](#) and [width](#) instead of [autofit](#).

Illustrations**See Also**

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [valign\(\)](#)

Examples

```

library(flextable)

ft <- flextable(head(iris))

# measure column widths but only for the body part
w_body <- dim_pretty(ft, part = "body")$widths
# measure column widths only for the header part and get the max
# as height value for rotated text
h_header <- max( dim_pretty(ft, part = "header")$widths )

ft <- rotate(ft, j = 1:4, rotation="btlr",part="header")
ft <- rotate(ft, j = 5, rotation="tbrl",part="header")

ft <- valign(ft, valign = "center", part = "header")
ft <- flextable::align(ft, align = "center", part = "all")

# Manage header height
ft <- height(ft, height = h_header * 1.1, part = "header")
# ... mainly because Word don't handle auto height with rotated headers
ft <- hrule(ft, i = 1, rule = "exact", part = "header")

ft

```

save_as_docx

save flextable objects in an Word file

Description

sugar function to save flextable objects in an Word file.

Usage

```
save_as_docx(..., values = NULL, path)
```

Arguments

...	flextable objects, objects, possibly named. If named objects, names are used as titles.
values	a list (possibly named), each element is a flextable object. If named objects, names are used as titles. If provided, argument ... will be ignored.
path	Word file to be created

See Also

Other flextable print function: [as_raster\(\)](#), [docx_value\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

Examples

```
ft1 <- flextable( head( iris ) )
tf <- tempfile(fileext = ".docx")
save_as_docx(ft1, path = tf)
```

```
ft2 <- flextable( head( mtcars ) )
tf <- tempfile(fileext = ".docx")
save_as_docx(`iris table` = ft1, `mtcars table` = ft2, path = tf)
```

save_as_html

save a flextable in an HTML file

Description

save a flextable in an HTML file. This function is useful to save the flextable in HTML file without using R Markdown (it is highly recommended to use R Markdown instead).

Usage

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

Arguments

x	a flextable object
path	HTML file to be created

See Also

Other flextable print function: [as_raster\(\)](#), [docx_value\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_image\(\)](#), [save_as_pptx\(\)](#)

Examples

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

`save_as_image`*save a flextable as an image*

Description

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

Image generated with package `'webshot'` or package `'webshot2'`. Package `'webshot2'` should be preferred as `'webshot'` can have issues with some properties (i.e. bold are not rendered for some users).

Usage

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

Arguments

<code>x</code>	a flextable object
<code>path</code>	image file to be created. It should end with <code>.png</code> , <code>.pdf</code> , or <code>.jpeg</code> .
<code>zoom</code> , <code>expand</code>	parameters used by webshot function.
<code>webshot</code>	webshot package as a scalar character, one of <code>"webshot"</code> or <code>"webshot2"</code> .

Note

This function requires package `webshot` or `webshot2`.

See Also

Other flextable print function: [as_raster\(\)](#), [docx_value\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_pptx\(\)](#)

Examples

```
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)
```

save_as_pptx	<i>save flextable objects in an PowerPoint file</i>
--------------	---

Description

sugar function to save flextable objects in an PowerPoint file.

Usage

```
save_as_pptx(..., values = NULL, path)
```

Arguments

...	flextable objects, objects, possibly named. If named objects, names are used as slide titles.
values	a list (possibly named), each element is a flextable object. If named objects, names are used as slide titles. If provided, argument ... will be ignored.
path	PowerPoint file to be created

See Also

Other flextable print function: [as_raster\(\)](#), [docx_value\(\)](#), [htmltools_value\(\)](#), [knit_print.flextable\(\)](#), [plot.flextable\(\)](#), [print.flextable\(\)](#), [save_as_docx\(\)](#), [save_as_html\(\)](#), [save_as_image\(\)](#)

Examples

```
ft1 <- flextable( head( iris ) )
tf <- tempfile(fileext = ".pptx")
save_as_pptx(ft1, path = tf)

ft2 <- flextable( head( mtcars ) )
tf <- tempfile(fileext = ".pptx")
save_as_pptx(`iris table` = ft1, `mtcars table` = ft2, path = tf)
```

set_caption	<i>set caption</i>
-------------	--------------------

Description

set caption value in flextable

Usage

```
set_caption(
  x,
  caption,
  autonum = NULL,
  style = "Table Caption",
  html_escape = TRUE
)
```

Arguments

x	flextable object
caption	caption value
autonum	an autonum representation. See run_autonum . This has only an effect when output is Word. If used, the caption is preceded by an auto-number sequence. In this case, the caption is preceded by an auto-number sequence that can be cross referenced.
style	caption paragraph style name. These names are available with function styles_info when output is Word; if HTML, a corresponding css class definition should exist.
html_escape	should HTML entities be escaped so that it can be safely included as text or an attribute value within an HTML document.

Note

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

Examples

```
ftab <- flextable( head( iris ) )
ftab <- set_caption(ftab, "my caption")
ftab

library(officer)
autonum <- run_autonum(seq_id = "tab", bkm = "mtcars")
ftab <- flextable( head( mtcars ) )
ftab <- set_caption(ftab, caption = "mtcars data", autonum = autonum)
ftab
```

 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.

Usage

```
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 = ""
)
```

Arguments

x	a flextable object
...	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.
part	partname of the table (one of 'body' or 'header' or 'footer')
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.
false, true	string to be used for logical columns
na_str	string for NA values

Illustrations**set_formatter_type**

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

Examples

```
ft <- flextable( head( iris ) )
ft <- set_formatter( x = ft,
  Sepal.Length = function(x) sprintf("%.02f", x),
  Sepal.Width = function(x) sprintf("%.04f", x)
)
ft <- theme_vanilla( ft )
ft
```

set_header_footer_df *Set flextable's header or footer rows*

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.

Usage

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

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

Arguments

x	a flextable object
mapping	a data.frame specifying for each colname content of the column.
key	column to use as key when joining data_mapping.

Illustrations

See Also

Other headers and footers: [add_header_lines\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [set_header_labels\(\)](#)

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_1 <- flextable( head( iris ))
ft_1 <- set_header_df(ft_1, mapping = typology, key = "col_keys" )
ft_1 <- merge_h(ft_1, part = "header")
ft_1 <- merge_v(ft_1, j = "Species", part = "header")
ft_1 <- theme_vanilla(ft_1)
ft_1 <- fix_border_issues(ft_1)
ft_1
```

```

typology <- data.frame(
  col_keys = c( "Sepal.Length", "Sepal.Width", "Petal.Length",
               "Petal.Width", "Species" ),
  unit = c("(cm)", "(cm)", "(cm)", "(cm)", "" ),
  stringsAsFactors = FALSE )
ft_2 <- set_footer_df(ft_1, mapping = typology, key = "col_keys" )
ft_2 <- italic(ft_2, italic = TRUE, part = "footer" )
ft_2 <- theme_booktabs(ft_2)
ft_2 <- fix_border_issues(ft_2)
ft_2

```

set_header_labels *Set flextable's headers labels*

Description

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

Usage

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

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.

Illustrations

See Also

Other headers and footers: [add_header_lines\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [set_header_footer_df](#)

Examples

```

ft <- flextable( head( iris ))
ft <- set_header_labels(ft, Sepal.Length = "Sepal length",
  Sepal.Width = "Sepal width", Petal.Length = "Petal length",
  Petal.Width = "Petal width"
)

ft <- flextable( head( iris ))
ft <- set_header_labels(ft,

```

```
values = list(Sepal.Length = "Sepal length",
              Sepal.Width = "Sepal width",
              Petal.Length = "Petal length",
              Petal.Width = "Petal width" ) )
ft
```

set_table_properties *Global table properties*

Description

Set table layout and table width. Default to fixed algorithm.

If layout is fixed, column widths will be used to display the table; width is ignored.

If layout is autofit, column widths will not be used; table width is used (as a percentage).

Usage

```
set_table_properties(x, layout = "fixed", width = 1)
```

Arguments

x	flextable object
layout	'autofit' or 'fixed' algorithm. Default to 'autofit'.
width	value of the preferred width of the table in percent.

Illustrations

Note

PowerPoint output ignore autofit layout as this algorithm does not exist for this Microsoft format.

See Also

Other flextable dimensions: [autofit\(\)](#), [dim.flextable\(\)](#), [dim_pretty\(\)](#), [fit_to_width\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [hrule\(\)](#), [width\(\)](#)

Examples

```
library(flextable)
ft_1 <- qflextable(head(cars))
ft_2 <- set_table_properties(ft_1, width = .5, layout = "autofit")
ft_2
```

style	<i>Set flextable style</i>
-------	----------------------------

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')

Illustrations

Examples

```
library(officer)
def_cell <- fp_cell(border = fp_border(color="wheat"))

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

ft <- flextable(head(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	<i>Apply alafoli theme</i>
---------------	----------------------------

Description

Apply theme alafoli to a flextable

Usage

```
theme_alafoli(x)
```

Arguments

x a flextable object

See Also

Other flextable theme: [theme_booktabs\(\)](#), [theme_box\(\)](#), [theme_tron_legacy\(\)](#), [theme_tron\(\)](#), [theme_vader\(\)](#), [theme_vanilla\(\)](#), [theme_zebra\(\)](#)

Examples

```
ftab <- flextable(iris)  
ftab <- theme_alafoli(ftab)
```

theme_booktabs	<i>Apply booktabs theme</i>
----------------	-----------------------------

Description

Apply theme booktabs 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

```
ftab <- flextable(iris)
ftab <- theme_booktabs(ftab)
```

theme_box	<i>Apply box theme</i>
-----------	------------------------

Description

Apply theme box to a flextable

Usage

```
theme_box(x)
```

Arguments

x a flextable object

See Also

Other flextable theme: [theme_alafoli\(\)](#), [theme_booktabs\(\)](#), [theme_tron_legacy\(\)](#), [theme_tron\(\)](#), [theme_vader\(\)](#), [theme_vanilla\(\)](#), [theme_zebra\(\)](#)

Examples

```
ftab <- flextable(iris)
ftab <- theme_box(ftab)
```

theme_tron	<i>Apply tron theme</i>
------------	-------------------------

Description

Apply theme tron to a flextable

Usage

```
theme_tron(x)
```

Arguments

x a flextable object

See Also

Other flextable theme: [theme_alafoli\(\)](#), [theme_booktabs\(\)](#), [theme_box\(\)](#), [theme_tron_legacy\(\)](#), [theme_vader\(\)](#), [theme_vanilla\(\)](#), [theme_zebra\(\)](#)

Examples

```
ftab <- flextable(iris)
ftab <- theme_tron(ftab)
```

theme_tron_legacy	<i>Apply tron legacy theme</i>
-------------------	--------------------------------

Description

Apply theme tron legacy to a flextable

Usage

```
theme_tron_legacy(x)
```

Arguments

x a flextable object

See Also

Other flextable theme: [theme_alafoli\(\)](#), [theme_booktabs\(\)](#), [theme_box\(\)](#), [theme_tron\(\)](#), [theme_vader\(\)](#), [theme_vanilla\(\)](#), [theme_zebra\(\)](#)

Examples

```
ftab <- flextable(iris)
ftab <- theme_tron_legacy(ftab)
```

theme_vader	<i>Apply Sith Lord Darth Vader</i>
-------------	------------------------------------

Description

Apply Sith Lord Darth Vader theme to a flextable

Usage

```
theme_vader(x, fontsize = 11)
```

Arguments

x	a flextable object
fontsize	font size in pixel

See Also

Other flextable theme: [theme_alafoli\(\)](#), [theme_booktabs\(\)](#), [theme_box\(\)](#), [theme_tron_legacy\(\)](#), [theme_tron\(\)](#), [theme_vanilla\(\)](#), [theme_zebra\(\)](#)

Examples

```
ftab <- flextable(iris)
ftab <- theme_vader(ftab)
```

theme_vanilla	<i>Apply vanilla theme</i>
---------------	----------------------------

Description

Apply theme vanilla to a flextable

Usage

```
theme_vanilla(x)
```

Arguments

x	a flextable object
---	--------------------

See Also

Other flextable theme: [theme_alafoli\(\)](#), [theme_booktabs\(\)](#), [theme_box\(\)](#), [theme_tron_legacy\(\)](#), [theme_tron\(\)](#), [theme_vader\(\)](#), [theme_zebra\(\)](#)

Examples

```
ftab <- flextable(iris)
ftab <- theme_vanilla(ftab)
```

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\(\)](#)

Examples

```
ftab <- flextable(iris)
ftab <- theme_zebra(ftab)
```

valign	<i>Set vertical alignment</i>
--------	-------------------------------

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')

Illustrations

See Also

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [italic\(\)](#), [padding\(\)](#), [rotate\(\)](#)

Examples

```
ft_1 <- flextable(iris[c(1:3, 51:53, 101:103),])
ft_1 <- theme_box(ft_1)
ft_1 <- merge_v(ft_1, j = 5)
ft_1

ft_2 <- valign(ft_1, j = 5, valign = "top", part = "all")
ft_2
```

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')

Illustrations

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\(\)](#)

Examples

```
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
```

vline_left	<i>set flextable left vertical borders</i>
------------	--

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')

Illustrations

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
```

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.

Usage

```
vline_right(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')

Illustrations

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
```

void	<i>Delete flextable content</i>
------	---------------------------------

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

Examples

```
ftab <- flextable(head(mtcars))
ftab <- void(ftab, ~ vs + am + gear + carb )
ftab
```

width	<i>Set flextable columns width</i>
-------	------------------------------------

Description

control columns width

Usage

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

Arguments

x	flextable object
j	columns selection
width	width in inches

Details

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

Illustrations**See Also**

Other flextable dimensions: [autofit\(\)](#), [dim.flextable\(\)](#), [dim_pretty\(\)](#), [fit_to_width\(\)](#), [flextable_dim\(\)](#), [height\(\)](#), [hrule\(\)](#), [set_table_properties\(\)](#)

Examples

```
ft <- flextable(head(iris))
ft <- width(ft, width = 1.5)
ft
```

Index

`add_footer` (`add_header`), 4
`add_footer_lines` (`add_header_lines`), 6
`add_footer_row` (`add_header_row`), 7
`add_header`, 4, 6, 7, 84, 85
`add_header_lines`, 5, 6, 7, 84, 85
`add_header_row`, 5, 6, 7, 84, 85
`align`, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93
`align_nottxt_col` (`align`), 8
`align_text_col` (`align`), 8
`as_b`, 9, 10, 11, 19, 20, 23, 24, 60, 64, 66, 71
`as_bracket`, 9, 10, 11, 19, 20, 23, 24, 60, 64, 66, 71
`as_chunk`, 9, 10, 11, 19–21, 23, 24, 60, 64, 66, 71
`as_flextable`, 12, 12, 13–15, 17
`as_flextable.glm`, 12, 12, 13–15, 17
`as_flextable.grouped_data`, 12, 13, 14, 15, 17, 18
`as_flextable.htest`, 12, 13, 14, 15, 17
`as_flextable.lm`, 12–14, 15, 17
`as_flextable.xtable`, 12–15, 16
`as_grouped_data`, 18
`as_grouped_data()`, 13
`as_i`, 9–11, 19, 20, 23, 24, 60, 64, 66, 71
`as_image`, 9–11, 19, 20, 21, 23, 24, 60, 64, 66, 71
`as_paragraph`, 9–11, 19, 20, 21, 23, 24, 40, 53, 59, 63–66, 70, 71
`as_raster`, 22, 44, 59, 63, 75, 76, 78–81
`as_raster()`, 74
`as_sub`, 9–11, 19, 20, 23, 24, 60, 64, 66, 71
`as_sup`, 9–11, 19, 20, 23, 24, 60, 64, 66, 71
`autofit`, 25, 43, 44, 46, 50, 55, 58, 73, 74, 77, 86, 98
`autofit()`, 48

`bg`, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93
`body_add_flextable`, 27
`body_replace_flextable_at_bkm` (`body_add_flextable`), 27

`bold`, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93
`border`, 29, 30–34, 55–57, 94–96
`border_inner`, 29, 30, 31–34, 55–57, 94–96
`border_inner_h`, 29, 30, 31, 32–34, 55–57, 94–96
`border_inner_v`, 29–31, 32, 33, 34, 55–57, 94–96
`border_outer`, 29–32, 33, 34, 55–57, 94–96
`border_remove`, 29–33, 34, 55–57, 94–96

`colformat_char`, 34, 36, 38, 39, 41
`colformat_int`, 35, 36, 38, 39, 41
`colformat_lgl`, 35, 36, 37, 39, 41
`colformat_num`, 35, 36, 38, 38, 41
`color`, 8, 26, 28, 39, 45, 51, 61, 72, 77, 93
`compose`, 4, 11, 20, 21, 35, 36, 38, 39, 40, 59, 63–66, 70, 71
`compose()`, 48
`continuous_summary`, 41

`delete_part`, 42
`dim.flextable`, 25, 43, 44, 46, 50, 55, 58, 86, 98
`dim_pretty`, 25, 43, 43, 46, 50, 55, 58, 73, 74, 77, 86, 98
`dim_pretty()`, 25
`display`, 60
`display` (`flextable-defunct`), 49
`div`, 59
`docx_value`, 22, 44, 59, 63, 75, 76, 78–81

`empty_blanks`, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93

`fit_to_width`, 25, 43, 44, 46, 50, 55, 58, 86, 98
`fix_border_issues`, 47
`flextable`, 4, 47
`flextable-defunct`, 49
`flextable-package`, 4

- flextable_dim, 25, 43, 44, 46, 49, 55, 58, 86, 98
- flextable_html_dependency, 50
- font, 8, 26, 28, 40, 45, 50, 51, 61, 72, 77, 93
- fontsize, 8, 26, 28, 40, 45, 51, 51, 61, 72, 77, 93
- footers_flextable_at_bkm, 52
- footnote, 52
- footnote(), 48
- formatC, 36, 38
- fp_border, 30–33, 55–57, 94–96
- fp_text, 11, 60
- headers_flextable_at_bkm, 54
- height, 25, 43, 44, 46, 50, 54, 58, 73, 74, 86, 98
- height_all(height), 54
- hline, 29–34, 55, 56, 57, 94–96
- hline_bottom, 29–34, 55, 56, 57, 94–96
- hline_top, 29–34, 55, 56, 57, 94–96
- hrule, 25, 43, 44, 46, 50, 55, 58, 86, 98
- htmltools_value, 22, 44, 59, 63, 75, 76, 78–81
- hyperlink_text, 9–11, 19–21, 23, 24, 59, 64, 66, 71
- italic, 8, 26, 28, 40, 45, 51, 60, 72, 77, 93
- knit_print.flextable, 22, 44, 59, 61, 75, 76, 78–81
- knit_print.flextable(), 48
- linerange, 9–11, 19, 20, 23, 24, 60, 63, 66, 71
- lollipop, 9–11, 19, 20, 23, 24, 60, 64, 65, 71
- merge_at, 66, 67–70
- merge_h, 5, 66, 67, 68–70
- merge_h_range, 66, 67, 68, 69, 70
- merge_none, 66–68, 68, 70
- merge_v, 5, 66–69, 69
- minibar, 9–11, 19–21, 23, 24, 60, 64, 66, 70
- mk_par(compose), 40
- padding, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93
- ph_location_type, 73
- ph_with, 74
- ph_with.flextable, 73
- ph_with_flextable, 74
- ph_with_flextable_at(flextable-defunct), 49
- plot.flextable, 22, 44, 59, 63, 74, 76, 78–81
- print.flextable, 22, 44, 59, 63, 75, 75, 78–81
- proc_freq, 76
- qflextable(flextable), 47
- read_pptx, 73
- regulartable(flextable), 47
- rotate, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93
- run_autonum, 82
- save_as_docx, 22, 44, 59, 63, 75, 76, 78, 79–81
- save_as_html, 22, 44, 59, 63, 75, 76, 78, 79, 80, 81
- save_as_image, 22, 44, 59, 63, 75, 76, 78, 79, 80, 81
- save_as_pptx, 22, 44, 59, 63, 75, 76, 78–80, 81
- set_caption, 81
- set_footer_df(set_header_footer_df), 84
- set_formatter, 82
- set_formatter_type(set_formatter), 82
- set_header_df(set_header_footer_df), 84
- set_header_footer_df, 5–7, 84, 85
- set_header_labels, 5–7, 84, 85
- set_table_properties, 25, 43, 44, 46, 50, 55, 58, 86, 98
- style, 87
- style(), 48
- styles_info, 82
- theme_alafoli, 88, 89–92
- theme_booktabs, 88, 88, 89–92
- theme_booktabs(), 48
- theme_box, 88, 89, 89, 90–92
- theme_tron, 88, 89, 89, 90–92
- theme_tron_legacy, 88–90, 90, 91, 92
- theme_vader, 88–91, 91, 92
- theme_vanilla, 88–91, 91, 92
- theme_zebra, 88–91, 92
- valign, 8, 26, 28, 40, 45, 51, 61, 72, 77, 93
- vline, 29–34, 55–57, 94, 95, 96
- vline_left, 29–34, 55–57, 94, 95, 96
- vline_right, 29–34, 55–57, 94, 95, 96
- void, 97

width, [25](#), [43](#), [44](#), [46](#), [50](#), [55](#), [58](#), [73](#), [74](#), [77](#),
[86](#), [97](#)

xtable_to_flextable
 ([as_flextable.xtable](#)), [16](#)