Package 'flextable'

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Type Package

Title Functions for Tabular Reporting

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

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Imports stats, utils, grDevices, graphics, officer (>= 0.4.1), rmarkdown, knitr, htmltools, xml2, data.table (>= 1.13.0), uuid (>= 0.1-4), gdtools (>= 0.1.6), rlang, base64enc

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Author David Gohel [aut, cre], Clementine Jager [ctb], Quentin Fazilleau [ctb], Maxim Nazarov [ctb] (rmarkdown for docx output), Titouan Robert [ctb], Michael Barrowman [ctb] (inline footnotes), Atsushi Yasumoto [ctb] (support for bookdown cross reference), Paul Julian [ctb] (support for gam objects)

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

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R topics documented:

flextable-package . . . 4
add_body . . . 5
add_header . . . 6
add_header_lines . . . 7
add_header_row . . . 8
align . . . 9
as_b . . . 10
as_bracket . . . 11
as_chunk . . . 12
as_equation . . . 13
as_flextable . . . 14
as_flextable.gam . . . 14
as_flextable.glm . . . 15
as_flextable.grouped_data . . . 16
as_flextable.htest . . . 17
as_flextable.lm . . . 18
as_flextable.xtable . . . 19
as_grouped_data . . . 21
as_highlight . . . 22
as_i . . . 22
as_image . . . 23
as_paragraph . . . 24
as_raster . . . 25
as_sub . . . 26
as_sup . . . 27
autofit . . . 28
before . . . 29
bg . . . 30
body_add_flextable . . . 31
bold . . . 32
border_inner . . . 33
border_inner_h . . . 34
border_inner_v . . . 35
border_outer . . . 36
border_remove . . . 37
colformat_char . . . 37
colformat_date . . . 38
colformat_datetime . . . 40
colformat_double . . . 41
colformat_image . . . 42
colformat_int . . . 43
colformat_lgl . . . 44
colformat_num . . . 45
color . . . 46
colorize . . . 48
compose . . . 48

continuous_summary . . . 49
delete_part . . . 50
df_printer . . . 51
dim.flextable . . . 52
dim_pretty . . . 53
empty_blanks . . . 53
fit_to_width . . . 54
fix_border_issues . . . 55
flextable . . . 56
flextable_dim . . . 57
flextable_html_dependency . . . 58
flextable_to_rmd . . . 58
font . . . 60
fontsize . . . 61
footers_flextable_at_bkm . . . 62
footnote . . . 62
fp_border_default . . . 64
fp_text_default . . . 64
get_flextable_defaults . . . 66
gg_chunk . . . 66
headers_flextable_at_bkm . . . 67
height . . . 68
highlight . . . 69
hline . . . 70
hline_bottom . . . 71
hline_top . . . 72
hrule . . . 73
htmltools_value . . . 74
hyperlink_text . . . 74
italic . . . 75
knit_print.flextable . . . 76
linerange . . . 80
line_spacing . . . 81
lollipop . . . 82
merge_at . . . 83
merge_h . . . 84
merge_h_range . . . 85
merge_none . . . 85
merge_v . . . 86
minibar . . . 88
ncol_keys . . . 89
nrow_part . . . 90
padding . . . 90
ph_with.flextable . . . 91
plot.flextable . . . 92
plot_chunk . . . 93
print.flextable . . . 94
proc_freq . . . 95

rotate . . . 96
save_as_docx . . . 98
save_as_html . . . 99
save_as_image . . . 100
save_as_pptx . . . 101
set_caption . . . 101
set_flextable_defaults . . . 103
set_formatter . . . 105
set_header_footer_df . . . 107
set_header_labels . . . 108
set_table_properties . . . 109
style . . . 110
surround . . . 111
theme_alafoli . . . 113
theme_booktabs . . . 114
theme_box . . . 115
theme_tron . . . 116
theme_tron_legacy . . . 117
theme_vader . . . 118
theme_vanilla . . . 119
theme_zebra . . . 120
use_df_printer . . . 121
valign . . . 122
vline . . . 123
vline_left . . . 124
vline_right . . . 125
void . . . 126
width . . . 126

Index **128**

`flextable-package` *flextable: Functions for Tabular Reporting*

Description

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

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

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

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

See Also

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

add_body *Add rows in body part*

Description

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

Usage

```
add_body(x, top = TRUE, ..., values = NULL)
```

Arguments

x	a flextable object
top	should the rows be inserted at the top or the bottom.
...	a named list (names are data colnames) of strings specifying corresponding values to add. It is important to insert data of the same type as the original data, otherwise it will be transformed (probably into strings if you add a character' where a double' is expected). This keeps the ability to format cell contents with the colformat_* functions, for example colformat_num().
values	a list of name-value pairs of labels or values, names should be existing col_key values. This argument can be used instead of ... for programming purpose (If values is supplied argument ... is ignored).

See Also

flextable(), add_header(), add_footer()

Examples

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

ft <- add_body(
  x = ft, Sepal.Length = 1:5,
  Sepal.Width = 1:5 * 2, Petal.Length = 1:5 * 3,
  Petal.Width = 1:5 + 10, Species = "Blah", top = FALSE
)

ft <- theme_booktabs(ft)
ft
```

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 rows be inserted at the top or the bottom.
...	a named list (names are data colnames) of strings specifying corresponding values to add. It is important to insert data of the same type as the original data, otherwise it will be transformed (probably into strings if you add a character' where a double' is expected). This keeps the ability to format cell contents with the colformat_* functions, for example colformat_num().
values	a list of name-value pairs of labels or values, names should be existing col_key values. This argument can be used instead of ... for programming purpose (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` *Add a label in a header or footer new row.*

Description

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

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

Description

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

Usage

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

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

Arguments

x	a flextable object
top	should the row be inserted at the top or the bottom.
values	values to add as a character vector
colwidths	the number of columns to merge in the row for each label

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 *Set text alignment*

Description

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

Usage

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

align_text_col(x, align = "left", header = TRUE, footer = TRUE)

align_nottext_col(x, align = "right", header = TRUE, footer = TRUE)
```

Arguments

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

Illustrations

See Also

Other sugar functions for table style: bg(), bold(), color(), empty_blanks(), fontsize(), font(), highlight(), italic(), line_spacing(), 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_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

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` *chunk with values in brackets*

Description

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

Usage

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

Arguments

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

Illustrations

See Also

Other chunk elements for paragraph: `as_b()`, `as_chunk()`, `as_equation()`, `as_highlight()`, `as_image()`, `as_i()`, `as_sub()`, `as_sup()`, `colorize()`, `gg_chunk()`, `hyperlink_text()`, `linerange()`, `lollipop()`, `minibar()`, `plot_chunk()`

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 *chunk of text wrapper*

Description

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

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 `formatter`.
props	an `officer::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 `formatter` function.

Illustrations

See Also

Other chunk elements for paragraph: `as_bracket()`, `as_b()`, `as_equation()`, `as_highlight()`, `as_image()`, `as_i()`, `as_sub()`, `as_sup()`, `colorize()`, `gg_chunk()`, `hyperlink_text()`, `linerange()`, `lollipop()`, `minibar()`, `plot_chunk()`

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_equation *equation chunk*

Description

This function is used to insert equations into flextable with function `compose()`. It should be used inside a call to `as_paragraph()`.

To use this function, package 'equatags' is required; also `equatags::mathjax_install()` must be executed only once to install necessary dependencies.

Usage

```
as_equation(x, width = 1, height = 0.2, unit = "in")
```

Arguments

`x`	values containing the 'MathJax' equations
`width, height`	size of the resulting equation in inches
`unit`	unit for width and height, one of "in", "cm", "mm".

See Also

Other chunk elements for paragraph: `as_bracket()`, `as_b()`, `as_chunk()`, `as_highlight()`, `as_image()`, `as_i()`, `as_sub()`, `as_sup()`, `colorize()`, `gg_chunk()`, `hyperlink_text()`, `linerange()`, `lollipop()`, `minibar()`, `plot_chunk()`

Examples

```
library(flextable)
if(require("equatags") && mathjax_available()){

eqs <- c(
  "(ax^2 + bx + c = 0)",
  "a \\ne 0",
  "x = {-b \\pm \\sqrt{b^2-4ac} \\over 2a}")
df <- data.frame(formula = eqs)
df


ft <- flextable(df)
ft <- compose(
  x = ft, j = "formula",
  value = as_paragraph(as_equation(formula, width = 2, height = .5)))
ft <- align(ft, align = "center", part = "all")
ft <- width(ft, width = 2)
ft

}
```

as_flextable *method to convert object to flextable*

Description

This is a convenient function to let users create flextable bindings from any objects. Users should consult documentation of corresponding method to understand the details and see what arguments can be used.

Usage

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

Arguments

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

See Also

Other as_flextable methods: as_flextable.gam(), as_flextable.glm(), as_flextable.grouped_data(), as_flextable.htest(), as_flextable.lm(), as_flextable.xtable()

as_flextable.gam *tabular summary for gam object*

Description

produce a flextable describing a generalized additive model produced by function mgcv::gam.

Usage

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

Arguments

x	gam model
...	unused argument

Illustrations

See Also

Other as_flextable methods: as_flextable.glm(), as_flextable.grouped_data(), as_flextable.htest(), as_flextable.lm(), as_flextable.xtable(), as_flextable()

Examples

```
if (require("mgcv")) {
  set.seed(2)

  # Simulated data
  dat <- gamSim(1, n = 400, dist = "normal", scale = 2)

  # basic GAM model
  b <- gam(y ~ s(x0) + s(x1) + s(x2) + s(x3), data = dat)

  ft <- as_flextable(b)
  ft
}
```

---

as_flextable.glm *tabular summary for glm object*

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.gam(), 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.gam()`, `as_flextable.glm()`, `as_flextable.htest()`, `as_flextable.lm()`, `as_flextable.xtable()`, `as_flextable()`

Examples

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

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

ft <- as_flextable( data_co2 )
ft <- add_footer_lines(ft, "dataset CO2 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 oof 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.gam()`, `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

x	lm model
...	unused argument

Illustrations

See Also

Other as_flextable methods: `as_flextable.gam()`, `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 = fp_text_default(),
  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 = fp_text_default(),
  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.gam(), 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","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 *grouped data transformation*

Description

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

Usage

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

Arguments

x	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)
CO2 <- CO2
setDT(CO2)
CO2$conc <- as.integer(CO2$conc)

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

as_highlight *highlight chunk*

Description

The function is producing a chunk with an highlight chunk.

Usage

```
as_highlight(x, color)
```

Arguments

x	value, if a chunk, the chunk will be updated
color	color to use as text highlighting color as character vector.

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_equation(), as_image(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

Examples

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

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

ft
```

as_i *italic chunk*

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_equation(), as_highlight(), as_image(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

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 *image chunk wrapper*

Description

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

Usage

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

Arguments

src	image filename
width, height	size of the png file in inches
unit	unit for width and height, one of "in", "cm", "mm".
...	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 outputing to PowerPoint format.

See Also

compose(), as_paragraph()

Other chunk elements for paragraph: as_bracket(), as_b(), as_chunk(), as_equation(), as_highlight(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

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 *concatenate chunks in a flextable*

Description

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

Usage

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

Arguments

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

Illustrations

See Also

as_chunk(), minibar(), as_image(), hyperlink_text()

Examples

```
library(flextable)
ft <- flextable(airquality[sample.int(150, size = 10), ])
ft <- compose(ft,
  j = "Wind",
  value = as_paragraph(
    as_chunk(Wind, props = fp_text_default(color = "orange")),
    " ",
   minibar(value = Wind, max = max(airquality$Wind), barcol = "orange", bg = "black", height = .15)
  ),
  part = "body"
)
ft <- autofit(ft)
ft
```

---

as_raster *get a flextable as a raster*

Description

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

Usage

```
as_raster(x, zoom = 2, expand = 2, 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: df_printer(), flextable_to_rmd(), 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 *subscript chunk*

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 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_equation(), as_highlight(), as_image(), as_i(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

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_equation(), as_highlight(), as_image(), as_i(), as_sub(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

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` *Adjusts cell widths and heights*

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"), unit = "in")
```

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')
`unit`	unit for add_h and add_w, one of "in", "cm", "mm".

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(), ncol_keys(), nrow_part(), set_table_properties(), width()

Examples

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

---

before *is an element before a match with entries*

Description

return a logical vector of the same length as x, indicating if elements are located before a set of entries to match or not.

Usage

```
before(x, entries)
```

Arguments

x	an atomic vector of values to be tested
entries	a sequence of items to be searched in x.

See Also

hline()

Examples

```
library(flextable)
library(officer)

dat <- data.frame(
  stringsAsFactors = FALSE,
  check.names = FALSE,
  Level = c("setosa", "versicolor", "virginica", "<NA>", "Total"),
  Freq = as.integer(c(50, 50, 50, 0, 150)),
  `% Valid` = c(100/3,
                100/3,100/3,NA,100),
  `% Valid Cum.` = c(100/3, 100*2/3, 100, NA, 100),
  `% Total` = c(100/3,
                100/3,100/3,0,100),
  `% Total Cum.` = c(100/3,
```

```
                    100*2/3,100,100,100)
)

ft <- flextable(dat)
ft <- hline(ft, i = ~ before(Level, "Total"),
            border = fp_border_default(width = 2))
ft
```

---

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

Note

Word does not allow you to apply transparency to table cells or paragraph shading.

See Also

Other sugar functions for table style: align(), bold(), color(), empty_blanks(), fontsize(), font(), highlight(), italic(), line_spacing(), 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_flextable *add flextable into a Word document*

Description

add a flextable into a Word document.

Usage

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

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

Arguments

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

body_replace_flextable_at_bkm

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

Examples

```
library(officer)

# 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

x	a flextable object
i	rows selection
j	columns selection
bold	boolean value
part	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(), highlight(), italic(), line_spacing(), padding(), rotate(), valign()

Examples

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

---

border_inner *set vertical & horizontal inner borders*

Description

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

Usage

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

Arguments

x	a flextable object
border	border properties 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(), hline_bottom(), hline_top(), hline(), surround(), 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` *set inner borders*

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 properties 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()`, `hline_bottom()`, `hline_top()`, `hline()`, `surround()`, `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` *set vertical inner borders*

Description

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

Usage

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

Arguments

`x`	a flextable object
`border`	border properties 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()`, `hline_bottom()`, `hline_top()`, `hline()`, `surround()`, `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` *set outer borders*

Description

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

Usage

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

Arguments

`x`	a flextable object
`border`	border properties 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()`, `hline_bottom()`, `hline_top()`, `hline()`, `surround()`, `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 *remove borders*

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()`, `hline_bottom()`, `hline_top()`, `hline()`, `surround()`, `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 *format character cells*

Description

Format character cells in a flextable.

Usage

```
colformat_char(
  x,
  i = NULL,
  j = NULL,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection.
na_str, nan_str	string to be used for NA and NaN values
prefix, suffix	string to be used as prefix or suffix

Illustrations

See Also

Other cells formatters: colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_int(), colformat_lgl(), colformat_num(), compose(), set_formatter()

Examples

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

---

colformat_date *format date cells*

Description

Format date cells in a flextable.

Usage

```
colformat_date(
  x,
  i = NULL,
  j = NULL,
  fmt_date = get_flextable_defaults()$fmt_date,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection.
fmt_date	see strptime()
na_str	string to be used for NA and NaN values
nan_str	string to be used for NA and NaN 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_datetime(), colformat_double(), colformat_image(), colformat_int(), colformat_lgl(), colformat_num(), compose(), set_formatter()

Examples

```
dat <- data.frame(z = Sys.Date() + 1:3,
  w = Sys.Date() - 1:3)
ft <- flextable(dat)
ft <- colformat_date(x = ft)
ft <- autofit(ft)
ft
```

`colformat_datetime` *format datetime cells*

Description

Format datetime cells in a flextable.

Usage

```
colformat_datetime(
  x,
  i = NULL,
  j = NULL,
  fmt_datetime = get_flextable_defaults()$fmt_datetime,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

`x`	a flextable object
`i`	rows selection
`j`	columns selection.
`fmt_datetime`	see `strptime()`
`na_str`	string to be used for NA and NaN values
`nan_str`	string to be used for NA and NaN 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_date()`, `colformat_double()`, `colformat_image()`, `colformat_int()`, `colformat_lgl()`, `colformat_num()`, `compose()`, `set_formatter()`

Examples

```
dat <- data.frame(z = Sys.time() + (1:3)*24,
  w = Sys.Date() - (1:3)*24)
ft <- flextable(dat)
ft <- colformat_datetime(x = ft)
ft <- autofit(ft)
ft
```

`colformat_double` *format numeric cells*

Description

Format numeric cells in a flextable.

Usage

```
colformat_double(
  x,
  i = NULL,
  j = NULL,
  big.mark = get_flextable_defaults()$big.mark,
  decimal.mark = get_flextable_defaults()$decimal.mark,
  digits = get_flextable_defaults()$digits,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

`x`	a flextable object
`i`	rows selection
`j`	columns selection.
`big.mark, digits, decimal.mark`	see `format()`
`na_str`	string to be used for NA and NaN values
`nan_str`	string to be used for NA and NaN 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_datetime(), colformat_date(), colformat_image(), colformat_int(), colformat_lgl(), colformat_num(), compose(), set_formatter()

Examples

```
dat <- mtcars
ft <- flextable(head(dat))
ft <- colformat_double(x = ft,
  big.mark=",", digits = 2, na_str = "N/A")
autofit(ft)
```

---

colformat_image *format cells as images*

Description

Format image paths as images in a flextable.

Usage

```
colformat_image(
  x,
  i = NULL,
  j = NULL,
  width,
  height,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection.
width, height	size of the png file in inches
na_str	string to be used for NA and NaN values
nan_str	string to be used for NA and NaN 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_datetime(), colformat_date(), colformat_double(), colformat_int(), colformat_lgl(), colformat_num(), compose(), set_formatter()

Examples

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

dat <- head(iris)
dat$Species <- as.character(dat$Species)
dat[c(1, 3, 5), "Species"] <- img.file

myft <- flextable( dat)
myft <- colformat_image(
  myft, i = c(1, 3, 5),
  j = "Species", width = .20, height = .15)
ft <- autofit(myft)
ft
```

---

colformat_int *format integer cells*

Description

Format integer cells in a flextable.

Usage

```
colformat_int(
  x,
  i = NULL,
  j = NULL,
  big.mark = get_flextable_defaults()$big.mark,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

x	a flextable object
i	rows selection

j	columns selection.
big.mark	see format()
na_str	string to be used for NA and NaN values
nan_str	string to be used for NA and NaN values
prefix	string to be used as prefix or suffix
suffix	string to be used as prefix or suffix

See Also

Other cells formatters: colformat_char(), colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_lgl(), colformat_num(), compose(), set_formatter()

Examples

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

---

colformat_lgl *format logical cells*

Description

Format logical cells in a flextable.

Usage

```
colformat_lgl(
  x,
  i = NULL,
  j = NULL,
  true = "true",
  false = "false",
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = ""
)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection.

false, true	string to be used for logical
na_str	string to be used for NA and NaN values
nan_str	string to be used for NA and NaN values
prefix	string to be used as prefix or suffix
suffix	string to be used as prefix or suffix

See Also

Other cells formatters: colformat_char(), colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_int(), colformat_num(), compose(), set_formatter()

Examples

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

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

---

colformat_num *format numeric cells*

Description

Format numeric cells in a flextable.

The function is different from colformat_double() on numeric type columns. The function uses the format() function of R on numeric type columns. So this is normally what you see on the R console most of the time (but scientific mode is disabled, NA are replaced, etc.).

Usage

```
colformat_num(
  x,
  i = NULL,
  j = NULL,
  big.mark = get_flextable_defaults()$big.mark,
  decimal.mark = get_flextable_defaults()$decimal.mark,
  na_str = get_flextable_defaults()$na_str,
  nan_str = get_flextable_defaults()$nan_str,
  prefix = "",
  suffix = "",
  ...
)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection.
big.mark, decimal.mark	see format()
na_str	string to be used for NA and NaN values
nan_str	string to be used for NA and NaN values
prefix	string to be used as prefix or suffix
suffix	string to be used as prefix or suffix
...	unused argument.

Illustrations

See Also

Other cells formatters: colformat_char(), colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_int(), colformat_lgl(), compose(), set_formatter()

Examples

```
dat <- mtcars
dat[2,1] <- NA
ft <- flextable(head(dat))
ft <- colformat_num(x = ft,
  big.mark=" ", decimal.mark = ",",
  na_str = "N/A")
ft <- autofit(ft)
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(), highlight(), italic(), line_spacing(), 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
}
```

colorize *colorize chunk*

Description

The function is producing a chunk with a font in color.

Usage

```
colorize(x, color)
```

Arguments

x	value, if a chunk, the chunk will be updated
color	color to use as text highlighting color as character vector.

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_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

Examples

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

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

ft
```

compose *Define flextable displayed values*

Description

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

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

Usage

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

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

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')
use_dot	by default use_dot=FALSE; if use_dot=TRUE, value is evaluated within a data.frame augmented of a column named . containing the jth column.

Illustrations

See Also

Other cells formatters: colformat_char(), colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_int(), colformat_lgl(), colformat_num(), set_formatter()

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

dat	a data.frame
columns	continuous variables to be summarized. If NULL all continuous variables are summarized.
by	discrete variables to use as groups when summarizing.
hide_grouplabel	if TRUE, group label will not be rendered, only level/value will be rendered.
digits	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 *delete flextable part*

Description

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

Usage

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

Arguments

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

Illustrations

Examples

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

`df_printer` *Summarize a data.frame as a flextable*

Description

Create a summary from a data.frame as a flextable. This function is to be used in an R Markdown document.

To use that function, you must declare it in the part `df_print` of the 'YAML' header of your R Markdown document:

```
---
df_print: !expr function(x) flextable::df_printer(x)
---
```

We notice an unexpected behavior with bookdown. When using bookdown it is necessary to use `use_df_printer()` instead in a setup run chunk:

```
use_df_printer()
```

Usage

```
df_printer(dat, ...)
```

Arguments

`dat`	the data.frame
`...`	unused argument

Details

'knitr' chunk options are available to customize the output:

- `ft_max_row`: The number of rows to print. Default to 10.
- `ft_split_colnames`: Should the column names be split (with non alpha-numeric characters). Default to FALSE.
- `ft_short_strings`: Should the character column be shorten. Default to FALSE.
- `ft_short_size`: Maximum length of character column if `ft_short_strings` is TRUE. Default to 35.

- `ft_short_suffix`: Suffix to add when character values are shorten. Default to "...".
- `ft_do_autofit`: Use autofit() before rendering the table. Default to TRUE.
- `ft_show_coltype`: Show column types. Default to TRUE.
- `ft_color_coltype`: Color to use for column types. Default to "#999999".

See Also

Other flextable print function: `as_raster()`, `flextable_to_rmd()`, `htmltools_value()`, `knit_print.flextable()`, `plot.flextable()`, `print.flextable()`, `save_as_docx()`, `save_as_html()`, `save_as_image()`, `save_as_pptx()`

Examples

```
df_printer(head(mtcars))
```

---

dim.flextable *Get widths and heights of flextable*

Description

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

Usage

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

Arguments

x	flextable object

See Also

Other flextable dimensions: `autofit()`, `dim_pretty()`, `fit_to_width()`, `flextable_dim()`, `height()`, `hrule()`, `ncol_keys()`, `nrow_part()`, `set_table_properties()`, `width()`

Examples

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

dim_pretty *Calculate pretty dimensions*

Description

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

Usage

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

Arguments

x	flextable object
part	partname of the table (one of 'all', 'body', 'header' or 'footer')
unit	unit for returned values, one of "in", "cm", "mm".

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(), ncol_keys(), nrow_part(), set_table_properties(), width()

Examples

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

empty_blanks *make blank columns as transparent*

Description

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

Usage

```
empty_blanks(x)
```

Arguments

x	a flextable object

See Also

Other sugar functions for table style: align(), bg(), bold(), color(), fontsize(), font(), highlight(), italic(), line_spacing(), 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 *fit a flextable to a maximum width*

Description

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

Usage

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

Arguments

x	flextable object
max_width	maximum width to fit in inches
inc	the font size decrease for each step
max_iter	maximum iterations
unit	unit for max_width, one of "in", "cm", "mm".

Illustrations

See Also

Other flextable dimensions: autofit(), dim.flextable(), dim_pretty(), flextable_dim(), height(), hrule(), ncol_keys(), nrow_part(), set_table_properties(), width()

Examples

```
ft_1 <- qflextable(head(mtcars))
ft_1 <- width(ft_1, width = 1)
ft_1

ft_2 <- fit_to_width(ft_1, max_width = 4)
ft_2
```

---

fix_border_issues *fix border issues when cell are merged*

Description

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

Usage

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

Arguments

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

Examples

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

`flextable` *flextable creation*

Description

Create a flextable object with function `flextable`.

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

Default formatting properties are automatically applied to every flextable you produce. You can change these default values with function `set_flextable_defaults()`.

Usage

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

qflextable(data)

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

Arguments

`data`	dataset
`col_keys`	columns names/keys to display. If some column names are not in the dataset, they will be added as blank columns by default.
`cwidth, cheight`	initial width and height to use for cell sizes in inches.
`defaults, theme_fun`	deprecated, use `set_flextable_defaults()` instead.

Details

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

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

If working with R Markdown document, you should read about knitr chunk options in `knit_print.flextable()` and about setting default values with `set_flextable_defaults()`.

Illustrations

qflextable

qflextable is a convenient tool to produce quickly a flextable for reporting where layoout is fixed and columns widths adjusted with autofit().

Note

Function regulartable is maintained for compatibility with old codes mades by users but be aware it produces the same exact object than flextable. This function should be deprecated then removed in the next versions.

See Also

style(), autofit(), theme_booktabs(), knit_print.flextable(), compose(), footnote(), set_caption()

Examples

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

---

flextable_dim *width and height of a flextable object*

Description

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

Names of the list are width, height and aspect_ratio.

Usage

```
flextable_dim(x, unit = "in")
```

Arguments

x	a flextable object
unit	unit for returned values, one of "in", "cm", "mm".

See Also

Other flextable dimensions: autofit(), dim.flextable(), dim_pretty(), fit_to_width(), height(), hrule(), ncol_keys(), nrow_part(), 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())
```

`flextable_to_rmd` *flextable raw code*

Description

Print openxml, latex or html code of a flextable. The function is particularly useful when you want to generate flextable in a loop from a R Markdown document.

Inside R Markdown document, chunk option `results` must be set to 'asis'.

All arguments whose name starts with `ft.` can be set in the chunk options.

See knit_print.flextable for more details.

Usage

```
flextable_to_rmd(
  x,
  ft.align = opts_current$get("ft.align"),
  ft.split = opts_current$get("ft.split"),
  ft.tabcolsep = opts_current$get("ft.tabcolsep"),
  ft.arraystretch = opts_current$get("ft.arraystretch"),
  ft.left = opts_current$get("ft.left"),
```

```
  ft.top = opts_current$get("ft.top"),
  text_after = "",
  webshot = opts_current$get("webshot"),
  bookdown = FALSE,
  pandoc2 = TRUE,
  print = TRUE
)
```

Arguments

x	a flextable object
ft.align	flextable alignment, supported values are 'left', 'center' and 'right'.
ft.split	Word option 'Allow row to break across pages' can be activated when TRUE.
ft.tabcolsep	space between the text and the left/right border of its containing cell, the default value is 8 points.
ft.arraystretch	height of each row relative to its default height, the default value is 1.5.
ft.left, ft.top	Position should be defined with options ft.left and ft.top. Theses are the top left coordinates in inches of the placeholder that will contain the table. Their default values are 1 and 2 inches.
text_after	The string you put here will be added after printing the content of the flextable. For example, you can put "\\pagebreak" here to have tables produced with page breaks.
webshot	webshot package as a scalar character, one of "webshot" or "webshot2".
bookdown	TRUE or FALSE (default) to support cross referencing with bookdown.
pandoc2	TRUE (default) or FALSE to get the string in a pandoc raw HTML attribute (only valid when pandoc version is >= 2.
print	print output if TRUE

See Also

Other flextable print function: as_raster(), df_printer(), htmltools_value(), knit_print.flextable(), plot.flextable(), print.flextable(), save_as_docx(), save_as_html(), save_as_image(), save_as_pptx()

Examples

```
demo_loop <- system.file(package = "flextable", "examples/rmd", "loop_with_flextable.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_with_flextable.docx")
#  render(input = rmd_file, output_format = "html_document",
#    output_file = "loop_with_flextable.html")
```

```
#  render(input = rmd_file,
#    output_format = rmarkdown::pdf_document(latex_engine = "xelatex"),
#    output_file = "loop_with_flextable.pdf")
}
```

---

font *Set font*

Description

change font of selected rows and columns of a flextable.

Usage

```
font(
  x,
  i = NULL,
  j = NULL,
  fontname,
  part = "body",
  cs.family = fontname,
  hansi.family = fontname,
  eastasia.family = fontname
)
```

Arguments

x	a flextable object
i	rows selection
j	columns selection
fontname	single character value. With Word and PowerPoint output, the value specifies the font to be used to format characters in the Unicode range (U+0000-U+007F).
part	partname of the table (one of 'all', 'body', 'header', 'footer')
cs.family	Optional font to be used to format characters in a complex script Unicode range. For example, Arabic text might be displayed using the "Arial Unicode MS" font. Used only with Word and PowerPoint outputs. Its default value is the value of fontname.
hansi.family	optional. Specifies the font to be used to format characters in a Unicode range which does not fall into one of the other categories. Used only with Word and PowerPoint outputs. Its default value is the value of fontname.
eastasia.family	optional font to be used to format characters in an East Asian Unicode range. For example, Japanese text might be displayed using the "MS Mincho" font. Used only with Word and PowerPoint outputs. Its default value is the value of fontname.

Illustrations

See Also

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

Examples

```
require("gdtools")
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(), highlight(), italic(), line_spacing(), 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 appened where the footnote is defined and the note is appened in the footer part of the table.

Usage

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

Arguments

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

fp_border_default *Border formatting properties*

Description

Create a fp_border() object that uses defaut values defined in flextable defaults formatting properties, i.e. default border color (see set_flextable_defaults()).

Usage

```
fp_border_default(
  color = flextable_global$defaults$border.color,
  style = "solid",
  width = 1
)
```

Arguments

color	border color - single character value (e.g. "#000000" or "black")
style	border style - single character value : "none" or "solid" or "dotted" or "dashed"
width	border width - an integer value : 0>= value

See Also

hline(), vline()

Other functions for defining formatting properties: fp_text_default()

Examples

```
fp_border_default(width = 2)
```

fp_text_default *Text formatting properties*

Description

Create a fp_text() object that uses defaut values defined in flextable defaults formatting properties, i.e. default font color, font size and font family (see set_flextable_defaults()). (see set_flextable_defaults()).

Usage

```
fp_text_default(
  color = flextable_global$defaults$font.color,
  font.size = flextable_global$defaults$font.size,
  bold = FALSE,
  italic = FALSE,
  underlined = FALSE,
  font.family = flextable_global$defaults$font.family,
  cs.family = NULL,
  eastasia.family = NULL,
  hansi.family = NULL,
  vertical.align = "baseline",
  shading.color = "transparent"
)
```

Arguments

color	font color - a single character value specifying a valid color (e.g. "#000000" or "black").
font.size	font size (in point) - 0 or positive integer value.
bold	is bold
italic	is italic
underlined	is underlined
font.family	single character value. Specifies the font to be used to format characters in the Unicode range (U+0000-U+007F).
cs.family	optional font to be used to format characters in a complex script Unicode range. For example, Arabic text might be displayed using the "Arial Unicode MS" font.
eastasia.family	optional font to be used to format characters in an East Asian Unicode range. For example, Japanese text might be displayed using the "MS Mincho" font.
hansi.family	optional. Specifies the font to be used to format characters in a Unicode range which does not fall into one of the other categories.
vertical.align	single character value specifying font vertical alignments. Expected value is one of the following : default 'baseline' or 'subscript' or 'superscript'
shading.color	shading color - a single character value specifying a valid color (e.g. "#000000" or "black").

See Also

as_chunk()

Other functions for defining formatting properties: fp_border_default()

Examples

```
fp_text_default(bold = TRUE)
```

get_flextable_defaults *Get flextable defaults formatting properties*

Description

The current formatting properties are automatically applied to every flextable you produce. These default values are returned by this function.

Usage

```
get_flextable_defaults()
```

Value

a list containing default values.

See Also

Other functions related to themes: `set_flextable_defaults()`, `theme_alafoli()`, `theme_booktabs()`, `theme_box()`, `theme_tron_legacy()`, `theme_tron()`, `theme_vader()`, `theme_vanilla()`, `theme_zebra()`

Examples

```
get_flextable_defaults()
```

gg_chunk *gg plots chunk wrapper*

Description

This function is used to insert mini gg plots into flextable with function `compose()`. It should be used inside a call to `as_paragraph()`.

Usage

```
gg_chunk(value, width = 1, height = 0.2, unit = "in")
```

Arguments

`value`	gg objects, stored in a list column.
`width, height`	size of the resulting png file in inches
`unit`	unit for width and height, one of "in", "cm", "mm".

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 outputing to PowerPoint format.

See Also

Other chunk elements for paragraph: as_bracket(), as_b(), as_chunk(), as_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), colorize(), hyperlink_text(), linerange(), lollipop(), minibar(), plot_chunk()

Examples

```
library(data.table)
library(flextable)
if(require("ggplot2")){
  my_cor_plot <- function(x){
    cols <- colnames(x)[sapply(x, is.numeric)]
    x <- x[, .SD, .SDcols = cols]
    cormat <- as.data.table(cor(x))
    cormat$var1 <- colnames(cormat)
    cormat <- melt(cormat, id.vars = "var1", measure.vars = cormat$var1,
                   variable.name = "var2", value.name = "correlation")
    ggplot(data = cormat, aes(x=var1, y=var2, fill=correlation)) +
      geom_tile() + coord_equal() +
      scale_fill_gradient2(low = "blue",
                           mid = "white", high = "red", limits = c(-1, 1),
                           guide = FALSE) + theme_void()
  }
  z <- as.data.table(iris)
  z <- z[ , list(gg = list(my_cor_plot(.SD))), by = "Species"]
  ft <- flextable(z)
  ft <- mk_par(ft, j = "gg",
               value = as_paragraph(
                 gg_chunk(value = gg, width = 1, height = 1)
               ))
  ft
}
```

`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 when the line height adjustment is "atleast" or "exact".

Usage

```
height(x, i = NULL, height, part = "body", unit = "in")

height_all(x, height, part = "all", unit = "in")
```

Arguments

x	flextable object
i	rows selection
height	height in inches
part	partname of the table
unit	unit for height, one of "in", "cm", "mm".

Illustrations

height_all

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

Note

This function has no effect when the rule for line height is set to "auto" (see `hrule()`), which is the default case, except with PowerPoint which does not support this automatic line height adjustment feature.

See Also

Other flextable dimensions: `autofit()`, `dim.flextable()`, `dim_pretty()`, `fit_to_width()`, `flextable_dim()`, `hrule()`, `ncol_keys()`, `nrow_part()`, `set_table_properties()`, `width()`

Examples

```
ft_1 <- flextable(head(iris))
ft_1 <- height(ft_1, height = .5)
ft_1 <- hrule(ft_1, rule = "exact")
ft_1


ft_2 <- flextable(head(iris))
ft_2 <- height_all(ft_2, height = 1)
ft_2 <- hrule(ft_2, rule = "exact")
ft_2
```

---

highlight *Text Highlight Color*

Description

change text highlight color of selected rows and columns of a flextable.

Usage

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

Arguments

x	a flextable object
i	rows selection
j	columns selection
color	color to use as text highlighting 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 color 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(), color(), empty_blanks(), fontsize(), font(), italic(), line_spacing(), padding(), rotate(), valign()

Examples

```
my_color_fun <- function(x){
  out <- rep("yellow", length(x))
  out[x < quantile(x, .75)] <- "pink"
  out[x < quantile(x, .50)] <- "wheat"
  out[x < quantile(x, .25)] <- "gray90"
  out
}
ft <- flextable(head( mtcars, n = 10))
ft <- highlight(ft, j = "disp", i = ~ disp > 200, color = "yellow")
ft <- highlight(ft, j = ~ drat + wt + qsec, color = my_color_fun)
ft
```

---

hline *set horizontal borders*

Description

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

Usage

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

Arguments

x	a flextable object
i	rows selection
j	columns selection
border	border properties 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(), hline_bottom(), hline_top(), surround(), 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 *set bottom horizontal border*

Description

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

Usage

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

Arguments

x	a flextable object
j	columns selection
border	border properties 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(), hline_top(), hline(), surround(), 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` *set top horizontal border*

Description

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

Usage

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

Arguments

x	a flextable object
j	columns selection
border	border properties 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(), hline_bottom(), hline(), surround(), 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 flextable 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).
`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()`, `ncol_keys()`, `nrow_part()`, `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 an HTML object*

Description

get a div() from a flextable object. This can be used in a shiny application. For an output within "R Markdown" document, use knit_print.flextable.

Usage

```
htmltools_value(x, ft.align = "center", ft.shadow = TRUE)
```

Arguments

x	a flextable object
ft.align	flextable alignment, supported values are 'left', 'center' and 'right'.
ft.shadow	use shadow dom, this option is existing to disable shadow dom (set to FALSE) for pagedown that can not support it for now.

Value

an object marked as HTML ready to be used within a call to shiny::renderUI for example.

See Also

Other flextable print function: as_raster(), df_printer(), flextable_to_rmd(), 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

x	text or any element that can be formatted as text with function provided in argument formatter.
props	an officer::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.
url	url to be used
...	additional arguments for formatter function.

Note

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

See Also

compose()

Other chunk elements for paragraph: as_bracket(), as_b(), as_chunk(), as_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), linerange(), lollipop(), minibar(), plot_chunk()

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(), highlight(), line_spacing(), 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.

You should not call this method directly. This function is used by the knitr package to automatically display a flextable in an "R Markdown" document from a chunk. However, it is recommended to read its documentation in order to get familiar with the different options available.

HTML, Word, PowerPoint and PDF outputs are supported.

Table captioning is a flextable feature compatible with R Markdown documents. The feature is available for HTML, PDF and Word documents. Compatibility with the "bookdown" package is also ensured, including the ability to produce captions so that they can be used in cross-referencing.

Usage

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

Arguments

x	a flextable object
...	further arguments, not used.

Chunk options

Some features, often specific to an output format, are available to help you configure some global settings relatve to the table output. knitr's chunk options are to be used to change the default settings:

chunk option	property	default value	HTML	d
ft.align	flextable alignment, supported values are 'left', 'center' and 'right'	'center'	yes	y
ft.shadow	HTML option, disable shadow dom (set to FALSE) for pagedown.	TRUE	yes	
ft.split	Word option 'Allow row to break across pages' can be activated when TRUE.	FALSE	no	y
ft.tabcolsep	space between the text and the left/right border of its containing cell	8.0	no	
ft.arraystretch	height of each row relative to its default height	1.5	no	
ft.left	left coordinates in inches	1.0	no	
ft.top	top coordinates in inches	2.0	no	

Table caption

Captions can be defined in two ways.

The first is with the `set_caption` function. If it is used, the other method will be ignored. The second method is by using knitr chunk option `tab.cap`.

```
set_caption(x, caption = "my caption")
```

If `set_caption` function is not used, caption identifier will be read from knitr's chunk option `tab.id` or `label` if in a bookdown (this is to respect the bookdown standards).

`tab.id='my_id'` or `label='my_id'`.

Some options are available to customise captions for any output:

label	name	value
caption id/bookmark	tab.id	NULL
caption	tab.cap	NULL
display table caption on top of the table or not	tab.topcaption	TRUE
caption table sequence identifier.	tab.lp	"tab:"

Word output provide more options such as ability to choose the prefix for numbering chunk for example. The table below expose these options:

label	name	value
Word stylename to use for table captions.	tab.cap.style	NULL
prefix for numbering chunk (default to "Table ").	tab.cap.pre	Table
suffix for numbering chunk (default to ": ").	tab.cap.sep	" :"
title number depth	tab.cap.tnd	0
caption prefix formatting properties	tab.cap.fp_text	fp_text_lite(bold = TRUE)
separator to use between title number and table number.	tab.cap.tns	"-"

HTML output

HTML output is using shadow dom to encapsule the table into an isolated part of the page so that no clash happens with styles. Some output may not support this feature. To our knowledge, only the pagedown output is concerned. Use knitr chunk option `ft.shadow=FALSE` to disable shadow dom.

If `ft.shadow=TRUE` some global CSS rules may change the desired output of flextables.

PDF output

Some features are not implemented in PDF due to technical infeasibility. These are the padding, line_spacing and height properties.

Background color and merged cells are also sources of trouble with PDF format. Authors are hoping to fix these issues in the future.

PowerPoint output

Auto-adjust Layout is not available for PowerPoint.

Images cannot be integrated into tables with the PowerPoint format.

Note

Supported formats require some minimum pandoc versions:

Output format	pandoc minimal version
HTML	>= 1.12
Word (docx)	>= 2.0
PowerPoint (pptx)	>= 2.4
PDF	>= 1.12

See Also

Other flextable print function: `as_raster()`, `df_printer()`, `flextable_to_rmd()`, `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")
}


## bookdown examples wth captions and cross ref -----
# captions_example <- system.file(
#   package = "flextable",
#   "examples/rmd", "captions_example.Rmd")
#
# dir_tmp <- tempfile(pattern = "dir")
# dir.create(dir_tmp, showWarnings = FALSE, recursive = TRUE)
# file.copy(captions_example, dir_tmp)
# rmd_file <- file.path(dir_tmp, basename(captions_example))
#
# file.copy(captions_example, to = rmd_file, overwrite = TRUE)
#
# if(require("rmarkdown", quietly = TRUE)){
#   render(input = rmd_file,
#          output_format = word_document(),
#          output_file = "doc.docx")
#   render(input = rmd_file,
#          output_format = pdf_document(latex_engine = "xelatex"),
#          output_file = "doc.pdf")
#   render(input = rmd_file,
#          output_format = html_document(),
#          output_file = "doc.html")
#
#   # bookdown ----
#   if(require("bookdown", quietly = TRUE)){
#     render(input = rmd_file, output_format = word_document2(),
#            output_file = "book.docx")
#     render(input = rmd_file,
#            output_format = pdf_document2(latex_engine = "xelatex"),
#            output_file = "book.pdf")
#     render(input = rmd_file,
#            output_format = html_document2(),
#            output_file = "book.html")
#
#     # officedown ----
#     if(require("officedown", quietly = TRUE)){
#       render(input = rmd_file,
#              output_format = markdown_document2(base_format=rdocx_document),
#              output_file = "officedown.docx")
#     }
#   }
# }
# browseURL(dirname(rmd_file))
```

`linerange` *mini linerange chunk wrapper*

Description

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

Usage

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

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.
`unit`	unit for width and height, one of "in", "cm", "mm".

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 outputing to PowerPoint format.

See Also

compose(), as_paragraph()

Other chunk elements for paragraph: as_bracket(), as_b(), as_chunk(), as_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), lollipop(), minibar(), plot_chunk()

Examples

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

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

autofit(myft)
```

---

line_spacing *Set text alignment*

Description

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

Usage

```
line_spacing(x, i = NULL, j = NULL, space = 1, part = "body", unit = "in")
```

Arguments

x	a flextable object
i	rows selection
j	columns selection
space	space between lines of text, 1 is single line spacing, 2 is double line spacing.
part	partname of the table (one of 'all', 'body', 'header', 'footer')
unit	unit for space, one of "in", "cm", "mm".

Illustrations

See Also

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

Examples

```
ft <- flextable(head(mtcars)[,3:6])
ft <- line_spacing(ft, space = 1.6, part = "all")
ft <- set_table_properties(ft, layout = "autofit")
ft
```

`lollipop` *mini lollipop chart chunk wrapper*

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,
  unit = "in",
  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
`unit`	unit for width and height, one of "in", "cm", "mm".
`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 outputing to PowerPoint format.

See Also

compose(), as_paragraph()

Other chunk elements for paragraph: as_bracket(), as_b(), as_chunk(), as_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), minibar(), plot_chunk()

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 *Merge flextable cells horizontally*

Description

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

Usage

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

Arguments

x	flextable object
i	rows where cells have to be merged.
part	partname of the table where merge has to be done.

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 *rowwise merge of a range of columns*

Description

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

Usage

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

Arguments

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

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 *Delete flextable merging informations*

Description

Delete all merging informations from a flextable.

Usage

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

Arguments

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

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 *Merge flextable cells vertically*

Description

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

Two options are available, either a column-by-column algorithm or an algorithm where the combinations of these columns are used once for all target columns.

Usage

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

Arguments

x	flextable object
j	column to used to find consecutive values to be merged. Columns from orignal 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.
combine	If the value is TRUE, the columns defined by j will be combined into a single column/value and the consecutive values of this result will be used. Otherwise, the columns are inspected one by one to perform cell merges.

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
```

`minibar` *mini barplots chunk wrapper*

Description

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

Usage

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

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
`unit`	unit for width and height, one of "in", "cm", "mm".

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 outputing to PowerPoint format.

See Also

`compose()`, `as_paragraph()`

Other chunk elements for paragraph: `as_bracket()`, `as_b()`, `as_chunk()`, `as_equation()`, `as_highlight()`, `as_image()`, `as_i()`, `as_sub()`, `as_sup()`, `colorize()`, `gg_chunk()`, `hyperlink_text()`, `linerange()`, `lollipop()`, `plot_chunk()`

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
```

`ncol_keys` *Number of columns*

Description

returns the number of columns displayed

Usage

```
ncol_keys(x)
```

Arguments

x	flextable object

See Also

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

Examples

```
library(flextable)
ft <- qflextable(head(cars))
ncol_keys(ft)
```

nrow_part *Number of rows of a part*

Description

returns the number of lines in a part of flextable.

Usage

```
nrow_part(x, part = "body")
```

Arguments

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

See Also

Other flextable dimensions: autofit(), dim.flextable(), dim_pretty(), fit_to_width(), flextable_dim(), height(), hrule(), ncol_keys(), set_table_properties(), width()

Examples

```
library(flextable)
ft <- qflextable(head(cars))
nrow_part(ft, part = "body")
```

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), unit is pts (points).
padding.top	padding top, unit is pts (points).
padding.bottom	padding bottom, unit is pts (points).
padding.left	padding left, unit is pts (points).
padding.right	padding right, unit is pts (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(), fontsize(), font(), highlight(), italic(), line_spacing(), 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 officer::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 officer::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)
```

---

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 as_raster() function

Note

This function requires packages: webshot and magick.

See Also

Other flextable print function: as_raster(), df_printer(), flextable_to_rmd(), 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)
```

---

plot_chunk *mini plots chunk wrapper*

Description

This function is used to insert mini plots into flextable with function compose(). It should be used inside a call to as_paragraph().

Available plots are 'box', 'line', 'points', 'density'.

Usage

```
plot_chunk(
  value,
  width = 1,
  height = 0.2,
  type = "box",
  free_scale = FALSE,
  unit = "in",
  ...
)
```

Arguments

value	a numeric vector, stored in a list column.
width, height	size of the resulting png file in inches
type	type of the plot: 'box', 'line', 'points' or 'density'.
free_scale	Should scales be free (TRUE or FALSE, the default value).
unit	unit for width and height, one of "in", "cm", "mm".
...	arguments sent to plot functions (see par())

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 outputing to PowerPoint format.

See Also

Other chunk elements for paragraph: as_bracket(), as_b(), as_chunk(), as_equation(), as_highlight(), as_image(), as_i(), as_sub(), as_sup(), colorize(), gg_chunk(), hyperlink_text(), linerange(), lollipop(), minibar()

Examples

```
library(data.table)
library(flextable)

z <- as.data.table(iris)
z <- z[ , list(
  Sepal.Length = mean(Sepal.Length, na.rm  = TRUE),
  z = list(.SD$Sepal.Length)
  ), by = "Species"]

ft <- flextable(z,
  col_keys = c("Species", "Sepal.Length", "box", "density"))
ft <- mk_par(ft, j = "box", value = as_paragraph(
  plot_chunk(value = z, type = "box",
             border = "red", col = "transparent")))
ft <- mk_par(ft, j = "density", value = as_paragraph(
 plot_chunk(value = z, type = "dens", col = "red")))
ft <- set_table_properties(ft, layout = "autofit", width = .6)
ft <- set_header_labels(ft, box = "boxplot", density= "density")
theme_vanilla(ft)
```

---

print.flextable *flextable printing*

Description

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

Usage

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

Arguments

x	flextable object
preview	preview type, one of c("html", "pptx", "docx", "pdf, "log"). When "log" is used, a description of the flextable is printed.
...	arguments for 'pdf_document' call when preview is "pdf".

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(), df_printer(), flextable_to_rmd(), htmltools_value(), knit_print.flextable(), plot.flextable(), save_as_docx(), save_as_html(), save_as_image(), save_as_pptx()

---

proc_freq *frequency table as flextable*

Description

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

Usage

```
proc_freq(
  x,
  row,
  col,
  main = "",
  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	characer column names for row
col	characer column names for column
main	characer 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 *rotate cell text*

Description

apply a rotation to cell text. The text direction can be "lrtb" 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 "tbrl" (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 "lrtb", "tbrl", "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()`, `highlight()`, `italic()`, `line_spacing()`, `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, pr_section = NULL)
```

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
pr_section	a prop_section object that can be used to define page layout such as orientation, width and height.

See Also

Other flextable print function: as_raster(), df_printer(), flextable_to_rmd(), htmltools_value(), knit_print.flextable(), plot.flextable(), print.flextable(), save_as_html(), save_as_image(), save_as_pptx()

Examples

```
tf <- tempfile(fileext = ".docx")

library(officer)
ft1 <- flextable( head( iris ) )
save_as_docx(ft1, path = tf)


ft2 <- flextable( head( mtcars ) )
sect_properties <- prop_section(
  page_size = page_size(orient = "landscape",
    width = 8.3, height = 11.7),
  type = "continuous",
  page_margins = page_mar()
)
save_as_docx(`iris table` = ft1, `mtcars table` = ft2,
  path = tf, pr_section = sect_properties)
```

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 recommanded to use R Markdown instead).

Usage

```
save_as_html(
  ...,
  values = NULL,
  path,
  encoding = "utf-8",
  title = deparse(sys.call())
)
```

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	HTML file to be created
encoding	encoding to be used in the HTML file
title	page title

See Also

Other flextable print function: as_raster(), df_printer(), flextable_to_rmd(), htmltools_value(), knit_print.flextable(), plot.flextable(), print.flextable(), save_as_docx(), save_as_image(), save_as_pptx()

Examples

```
ft1 <- flextable( head( iris ) )
tf1 <- tempfile(fileext = ".html")
save_as_html(ft1, path = tf1)
# browseURL(tf1)

ft2 <- flextable( head( mtcars ) )
tf2 <- tempfile(fileext = ".html")
save_as_html(
  `iris table` = ft1,
  `mtcars table` = ft2,
  path = tf2,
```

```
  title = "rhoooo")
# browseURL(tf2)
```

`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 prefered** 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

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

Note

This function requires package webshot or webshot2.

See Also

Other flextable print function: `as_raster()`, `df_printer()`, `flextable_to_rmd()`, `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 *save flextable objects in an PowerPoint file*

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(), df_printer(), flextable_to_rmd(), 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 *Set Caption*

Description

Set caption value in a flextable.

- The caption will be associated with a paragraph style when the output is Word. It can also be numbered as a auto-numbered Word computed value.
- The PowerPoint format ignores captions.

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 officer::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 officer::styles_info() when output is Word; if HTML, the value is set as class value in the caption tag.
html_escape	should HTML entities be escaped so that it can be safely included as text or an attribute value within an HTML document.

R Markdown

flextable captions can be defined from R Markdown documents by using knitr::opts_chunk$set(). The following options are available:

label	name	value
Word stylename to use for table captions.	tab.cap.style	NULL
prefix for numbering chunk (default to "Table ").	tab.cap.pre	Table
suffix for numbering chunk (default to ": ").	tab.cap.sep	" :"
title number depth	tab.cap.tnd	0
separator to use between title number and table number.	tab.cap.tns	"-"
caption prefix formatting properties	tab.cap.fp_text	fp_text_lite(bold = TRUE)
caption id/bookmark	tab.id	NULL
caption	tab.cap	NULL
display table caption on top of the table or not	tab.topcaption	TRUE
caption table sequence identifier.	tab.lp	"tab:"

See knit_print.flextable for more details.

See Also

flextable()

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_flextable_defaults` *Modify flextable defaults formatting properties*

Description

The current formatting properties (see `get_flextable_defaults()`) are automatically applied to every flextable you produce. Use `set_flextable_defaults()` to override them. Use `init_flextable_defaults()` to re-init all values with the package defaults.

Usage

```
set_flextable_defaults(
  font.family = NULL,
  font.size = NULL,
  font.color = NULL,
  text.align = NULL,
  padding = NULL,
  padding.bottom = NULL,
  padding.top = NULL,
  padding.left = NULL,
  padding.right = NULL,
  border.color = NULL,
  background.color = NULL,
  line_spacing = NULL,
  table.layout = NULL,
  cs.family = NULL,
  eastasia.family = NULL,
  hansi.family = NULL,
  decimal.mark = NULL,
  big.mark = NULL,
  digits = NULL,
  na_str = NULL,
  nan_str = NULL,
  fmt_date = NULL,
  fmt_datetime = NULL,
```

```
  extra_css = NULL,
  fonts_ignore = NULL,
  theme_fun = NULL,
  post_process_pdf = NULL,
  post_process_docx = NULL,
  post_process_html = NULL,
  post_process_pptx = NULL
)

init_flextable_defaults()
```

Arguments

font.family	single character value. When format is Word, it specifies the font to be used to format characters in the Unicode range (U+0000-U+007F).
font.size	font size (in point) - 0 or positive integer value.
font.color	font color - a single character value specifying a valid color (e.g. "#000000" or "black").
text.align	text alignment - a single character value, expected value is one of 'left', 'right', 'center', 'justify'.
padding	padding (shortcut for top, bottom, left and right padding)
padding.bottom, padding.top, padding.left, padding.right	paragraph paddings - 0 or positive integer value.
border.color	border color - single character value (e.g. "#000000" or "black").
background.color	cell background color - a single character value specifying a valid color (e.g. "#000000" or "black").
line_spacing	space between lines of text, 1 is single line spacing, 2 is double line spacing.
table.layout	'autofit' or 'fixed' algorithm. Default to 'autofit'.
cs.family	optional and only for Word. Font to be used to format characters in a complex script Unicode range. For example, Arabic text might be displayed using the "Arial Unicode MS" font.
eastasia.family	optional and only for Word. Font to be used to format characters in an East Asian Unicode range. For example, Japanese text might be displayed using the "MS Mincho" font.
hansi.family	optional and only for Word. Font to be used to format characters in a Unicode range which does not fall into one of the other categories.
decimal.mark, big.mark, digits, na_str, nan_str	formatC arguments used by colformat_num(), colformat_double(), and colformat_int().
fmt_date, fmt_datetime	formats for date and datetime columns as documented in strptime(). Default to '%Y-%m-%d' and '%Y-%m-%d %H:%M:%S'.
extra_css	css instructions to be integrated with the table.

fonts_ignore — if TRUE, pdf-engine pdflatex can be used instead of xelatex or lualatex. If pdflatex is used, fonts will be ignored because they are not supported by pdflatex, whereas with the xelatex and lualatex engines they are.

theme_fun — a single character value (the name of the theme function to be applied) or a theme function (input is a flextable, output is a flextable).

post_process_pdf, post_process_docx, post_process_html, post_process_pptx — Post-processing functions that will allow you to customize the display by output type (pdf, html, docx, pptx). They are executed just before printing the table.

Value

a list containing previous default values.

Illustrations

See Also

Other functions related to themes: get_flextable_defaults(), theme_alafoli(), theme_booktabs(), theme_box(), theme_tron_legacy(), theme_tron(), theme_vader(), theme_vanilla(), theme_zebra()

Examples

```
ft_1 <- qflextable(head(airquality))
ft_1

old <- set_flextable_defaults(
  font.color = "#AA8855",
  border.color = "#8855AA")
ft_2 <- qflextable(head(airquality))
ft_2

do.call(set_flextable_defaults, old)
```

---

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.

This function will be deprecated in favor of the colformat_* functions, for example colformat_double().

See Also

Other cells formatters: colformat_char(), colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_int(), colformat_lgl(), colformat_num(), compose()

Other cells formatters: colformat_char(), colformat_datetime(), colformat_date(), colformat_double(), colformat_image(), colformat_int(), colformat_lgl(), colformat_num(), compose()

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` specyfing for each colname content of the column.
`key`	column to use as key when joigning 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 = 0)
```

Arguments

x	flextable object
layout	'autofit' or 'fixed' algorithm. Default to 'autofit'.
width	The parameter has a different effect depending on the output format. Users should consider it as a minimum width. In HTML, it is the minimum width of the space that the table should occupy. In Word, it is a preferred size and Word may decide not to strictly stick to it. It has no effect on PowerPoint and PDF output. Its default value is 0, as an effect, it only use necessary width to display all content. It is not used by the PDF output.

Illustrations

Note

PowerPoint output ignore autofit layout.

See Also

Other flextable dimensions: `autofit()`, `dim.flextable()`, `dim_pretty()`, `fit_to_width()`, `flextable_dim()`, `height()`, `hrule()`, `ncol_keys()`, `nrow_part()`, `width()`

Examples

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

---

style *Set flextable style*

Description

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

Usage

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

Arguments

`x`	a flextable object
`i`	rows selection
`j`	columns selection
`pr_t`	object(s) of class `fp_text`

pr_p	object(s) of class fp_par
pr_c	object(s) of class fp_cell
part	partname of the table (one of 'all', 'body', 'header' or 'footer')

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
```

---

surround *Set borders for a selection of cells*

Description

Highlight specific cells with borders.

To set borders for the whole table, use border_outer(), border_inner_h() and border_inner_v().

All the following functions also support the row and column selector i and j:

- hline(): set bottom borders (inner horizontal)
- vline(): set right borders (inner vertical)
- hline_top(): set the top border (outer horizontal)
- vline_left(): set the left border (outer vertical)

Usage

```
surround(
  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')

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)
library(flextable)

# cell to highlight
vary_i <- 1:3
vary_j <- 1:3

std_border <- fp_border(color = "orange")

ft <- flextable(head(iris))
ft <- border_remove(x = ft)
ft <- border_outer(x = ft, border = std_border)

for (id in seq_along(vary_i)) {
  ft <- bg(
    x = ft,
    i = vary_i[id],
    j = vary_j[id], bg = "yellow"
  )
  ft <- surround(
    x = ft,
    i = vary_i[id],
    j = vary_j[id],
    border.left = std_border,
    border.right = std_border,
```

```
    part = "body"
  )
}

ft <- autofit(ft)
ft
# # render
# print(ft, preview = "pptx")
# print(ft, preview = "docx")
# print(ft, preview = "pdf")
# print(ft, preview = "html")
```

`theme_alafoli` *Apply alafoli theme*

Description

Apply alafoli theme

Usage

```
theme_alafoli(x)
```

Arguments

x	a flextable object

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the `theme_fun` argument of `set_flextable_defaults()`; be aware that this theme function is applied as the last instruction when calling `flextable()` - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the `post_process_html` argument of `set_flextable_defaults()` (or `post_process_pdf`, `post_process_docx`, `post_process_pptx`) to specify a theme to be applied systematically before the `flextable()` is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: get_flextable_defaults(), set_flextable_defaults(), theme_booktabs(), theme_box(), theme_tron_legacy(), theme_tron(), theme_vader(), theme_vanilla(), theme_zebra()

Examples

```
ft <- flextable(head(airquality))
ft <- theme_alafoli(ft)
ft
```

---

theme_booktabs *Apply booktabs theme*

Description

Apply theme booktabs to a flextable

Usage

```
theme_booktabs(x, bold_header = FALSE, ...)
```

Arguments

x	a flextable object
bold_header	header will be bold if TRUE.
...	unused

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the theme_fun argument of set_flextable_defaults(); be aware that this theme function is applied as the last instruction when calling flextable() - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the post_process_html argument of set_flextable_defaults() (or post_process_pdf, post_process_docx, post_process_pptx) to specify a theme to be applied systematically before the flextable() is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: `get_flextable_defaults()`, `set_flextable_defaults()`, `theme_alafoli()`, `theme_box()`, `theme_tron_legacy()`, `theme_tron()`, `theme_vader()`, `theme_vanilla()`, `theme_zebra()`

Examples

```
ft <- flextable(head(airquality))
ft <- theme_booktabs(ft)
ft
```

---

theme_box *Apply box theme*

Description

Apply theme box to a flextable

Usage

```
theme_box(x)
```

Arguments

x	a flextable object

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the `theme_fun` argument of `set_flextable_defaults()`; be aware that this theme function is applied as the last instruction when calling `flextable()` - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the `post_process_html` argument of `set_flextable_defaults()` (or `post_process_pdf`, `post_process_docx`, `post_process_pptx`) to specify a theme to be applied systematically before the `flextable()` is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: `get_flextable_defaults()`, `set_flextable_defaults()`, `theme_alafoli()`, `theme_booktabs()`, `theme_tron_legacy()`, `theme_tron()`, `theme_vader()`, `theme_vanilla()`, `theme_zebra()`

Examples

```
ft <- flextable(head(airquality))
ft <- theme_box(ft)
ft
```

---

theme_tron *Apply tron theme*

Description

Apply theme tron to a flextable

Usage

```
theme_tron(x)
```

Arguments

x	a flextable object

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the `theme_fun` argument of `set_flextable_defaults()`; be aware that this theme function is applied as the last instruction when calling `flextable()` - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the `post_process_html` argument of `set_flextable_defaults()` (or `post_process_pdf`, `post_process_docx`, `post_process_pptx`) to specify a theme to be applied systematically before the `flextable()` is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: `get_flextable_defaults()`, `set_flextable_defaults()`, `theme_alafoli()`, `theme_booktabs()`, `theme_box()`, `theme_tron_legacy()`, `theme_vader()`, `theme_vanilla()`, `theme_zebra()`

Examples

```
ft <- flextable(head(airquality))
ft <- theme_tron(ft)
ft
```

`theme_tron_legacy` *Apply tron legacy theme*

Description

Apply theme tron legacy to a flextable

Usage

```
theme_tron_legacy(x)
```

Arguments

`x`	a flextable object

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the `theme_fun` argument of `set_flextable_defaults()`; be aware that this theme function is applied as the last instruction when calling `flextable()` - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the `post_process_html` argument of `set_flextable_defaults()` (or `post_process_pdf`, `post_process_docx`, `post_process_pptx`) to specify a theme to be applied systematically before the `flextable()` is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: `get_flextable_defaults()`, `set_flextable_defaults()`, `theme_alafoli()`, `theme_booktabs()`, `theme_box()`, `theme_tron()`, `theme_vader()`, `theme_vanilla()`, `theme_zebra()`

Examples

```
ft <- flextable(head(airquality))
ft <- theme_tron_legacy(ft)
ft
```

`theme_vader` *Apply Sith Lord Darth Vader theme*

Description

Apply Sith Lord Darth Vader theme to a flextable

Usage

```
theme_vader(x, ...)
```

Arguments

`x`	a flextable object
`...`	unused

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the `theme_fun` argument of `set_flextable_defaults()`; be aware that this theme function is applied as the last instruction when calling `flextable()` - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the `post_process_html` argument of `set_flextable_defaults()` (or `post_process_pdf`, `post_process_docx`, `post_process_pptx`) to specify a theme to be applied systematically before the `flextable()` is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: get_flextable_defaults(), set_flextable_defaults(), theme_alafoli(), theme_booktabs(), theme_box(), theme_tron_legacy(), theme_tron(), theme_vanilla(), theme_zebra()

Examples

```
ft <- flextable(head(airquality))
ft <- theme_vader(ft)
ft
```

---

theme_vanilla *Apply vanilla theme*

Description

Apply theme vanilla to a flextable: The external horizontal lines of the different parts of the table (body, header, footer) are black 2 points thick, the external horizontal lines of the different parts are black 0.5 point thick. Header text is bold, text columns are left aligned, other columns are right aligned.

Usage

```
theme_vanilla(x)
```

Arguments

x	a flextable object

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the theme_fun argument of set_flextable_defaults(); be aware that this theme function is applied as the last instruction when calling flextable() - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the post_process_html argument of set_flextable_defaults() (or post_process_pdf, post_process_docx, post_process_pptx) to specify a theme to be applied systematically before the flextable() is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

Illustrations

See Also

Other functions related to themes: `get_flextable_defaults()`, `set_flextable_defaults()`, `theme_alafoli()`, `theme_booktabs()`, `theme_box()`, `theme_tron_legacy()`, `theme_tron()`, `theme_vader()`, `theme_zebra()`

Examples

```
ft <- flextable(head(airquality))
ft <- theme_vanilla(ft)
ft
```

---

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

Illustrations

behavior

Theme functions are not like 'ggplot2' themes. They are applied to the existing table **immediately**. If you add a row in the footer, the new row is not formatted with the theme. The theme function applies the theme only to existing elements when the function is called.

That is why theme functions should be applied after all elements of the table have been added (mainly additionnal header or footer rows).

If you want to automatically apply a theme function to each flextable, you can use the `theme_fun` argument of `set_flextable_defaults()`; be aware that this theme function is applied as the last instruction when calling `flextable()` - so if you add headers or footers to the array, they will not be formatted with the theme.

You can also use the `post_process_html` argument of `set_flextable_defaults()` (or `post_process_pdf`, `post_process_docx`, `post_process_pptx`) to specify a theme to be applied systematically before the `flextable()` is printed; in this case, don't forget to take care that the theme doesn't override any formatting done before the print statement.

See Also

Other functions related to themes: `get_flextable_defaults()`, `set_flextable_defaults()`, `theme_alafoli()`, `theme_booktabs()`, `theme_box()`, `theme_tron_legacy()`, `theme_tron()`, `theme_vader()`, `theme_vanilla()`

Examples

```
ft <- flextable(head(airquality))
ft <- theme_zebra(ft)
ft
```

---

use_df_printer *Summarize a data.frame as a flextable*

Description

Define `df_printer()` as data.frame print method in an R Markdown document.

In a setup run chunk:

```
flextable::use_df_printer()
```

Usage

```
use_df_printer()
```

See Also

`df_printer()`, `flextable()`

valign *Set vertical alignment*

Description

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

Usage

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

Arguments

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

Illustrations

See Also

Other sugar functions for table style: align(), bg(), bold(), color(), empty_blanks(), fontsize(), font(), highlight(), italic(), line_spacing(), 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 properties 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(), hline_bottom(), hline_top(), hline(), surround(), 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 *set flextable left vertical borders*

Description

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

Usage

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

Arguments

x	a flextable object
i	rows selection
border	border properties 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(), hline_bottom(), hline_top(), hline(), surround(), 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 properties 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(), hline_bottom(), hline_top(), hline(), surround(), 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 *Delete flextable content*

Description

Set content display as a blank " ".

Usage

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

Arguments

x	flextable object
j	columns selection
part	partname of the table

Examples

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

width *Set flextable columns width*

Description

control columns width

Usage

```
width(x, j = NULL, width, unit = "in")
```

Arguments

x	flextable object
j	columns selection
width	width in inches
unit	unit for width, one of "in", "cm", "mm".

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(), ncol_keys(), nrow_part(), set_table_properties()

Examples

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

Index

∗ **as_flextable methods**
as_flextable, 14
as_flextable.gam, 14
as_flextable.glm, 15
as_flextable.grouped_data, 16
as_flextable.htest, 17
as_flextable.lm, 18
as_flextable.xtable, 19
∗ **borders management**
border_inner, 33
border_inner_h, 34
border_inner_v, 35
border_outer, 36
border_remove, 37
hline, 70
hline_bottom, 71
hline_top, 72
surround, 111
vline, 123
vline_left, 124
vline_right, 125
∗ **cells formatters**
colformat_char, 37
colformat_date, 38
colformat_datetime, 40
colformat_double, 41
colformat_image, 42
colformat_int, 43
colformat_lgl, 44
colformat_num, 45
compose, 48
set_formatter, 105
∗ **chunk elements for paragraph**
as_b, 10
as_bracket, 11
as_chunk, 12
as_equation, 13
as_highlight, 22
as_i, 22
as_image, 23
as_sub, 26
as_sup, 27
colorize, 48
gg_chunk, 66
hyperlink_text, 74
linerange, 80
lollipop, 82
minibar, 88
plot_chunk, 93
∗ **flextable dimensions**
autofit, 28
dim.flextable, 52
dim_pretty, 53
fit_to_width, 54
flextable_dim, 57
height, 68
hrule, 73
ncol_keys, 89
nrow_part, 90
set_table_properties, 109
width, 126
∗ **flextable merging function**
merge_at, 83
merge_h, 84
merge_h_range, 85
merge_none, 85
merge_v, 86
∗ **flextable print function**
as_raster, 25
df_printer, 51
flextable_to_rmd, 58
htmltools_value, 74
knit_print.flextable, 76
plot.flextable, 92
print.flextable, 94
save_as_docx, 98
save_as_html, 99
save_as_image, 100

save_as_pptx, 101
∗ **functions for defining formatting properties**
fp_border_default, 64
fp_text_default, 64
∗ **functions related to themes**
get_flextable_defaults, 66
set_flextable_defaults, 103
theme_alafoli, 113
theme_booktabs, 114
theme_box, 115
theme_tron, 116
theme_tron_legacy, 117
theme_vader, 118
theme_vanilla, 119
theme_zebra, 120
∗ **headers and footers**
add_header, 6
add_header_lines, 7
add_header_row, 8
set_header_footer_df, 107
set_header_labels, 108
∗ **sugar functions for table style**
align, 9
bg, 30
bold, 32
color, 46
empty_blanks, 53
font, 60
fontsize, 61
highlight, 69
italic, 75
line_spacing, 81
padding, 90
rotate, 96
valign, 122

add_body, 5
add_footer *(*add_header*)*, 6
add_footer(), *5*
add_footer_lines *(*add_header_lines*)*, 7
add_footer_row *(*add_header_row*)*, 8
add_header, 6, *8, 9*, *107*, *109*
add_header(), *5*
add_header_lines, *6*, 7, *9*, *107*, *109*
add_header_row, *6*, *8*, 8, *107*, *109*
align, 9, *30*, *33*, *47*, *54*, *61*, *70*, *76*, *81*, *91*, *97*, *122*
align_nottext_col *(*align*)*, 9
align_text_col *(*align*)*, 9
as_b, 10, *11–13*, *22–24*, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_bracket, *10*, 11, *12, 13*, *22–24*, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_chunk, *10, 11*, 12, *13*, *22–24*, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_chunk(), *25*, *65*
as_equation, *10–12*, 13, *22–24*, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_flextable, 14, *15–18*, *20*
as_flextable.gam, *14*, 14, *15–18*, *20*
as_flextable.glm, *14, 15*, 15, *16–18*, *20*
as_flextable.grouped_data, *14, 15*, 16, *17, 18*, *20*
as_flextable.grouped_data(), *21*
as_flextable.htest, *14–16*, 17, *18*, *20*
as_flextable.lm, *14–17*, 18, *20*
as_flextable.xtable, *14–18*, 19
as_grouped_data, 21
as_grouped_data(), *16*
as_highlight, *10–13*, 22, *23, 24*, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_i, *10–13*, *22*, 22, *24*, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_image, *10–13*, *22, 23*, 23, *26, 27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_image(), *25*
as_paragraph, 24
as_paragraph(), *10–13*, *22–24*, *26, 27*, *48, 49*, *63*, *66*, *74*, *80–83*, *88*, *93*
as_raster, 25, *52*, *59*, *74*, *78*, *93*, *95*, *98–101*
as_raster(), *92*
as_sub, *10–13*, *22–24*, 26, *27*, *48*, *67*, *75*, *81*, *83*, *88*, *94*
as_sup, *10–13*, *22–24*, *26*, 27, *48*, *67*, *75*, *81*, *83*, *88*, *94*
autofit, 28, *52, 53*, *55*, *57*, *69*, *73*, *89, 90*, *97*, *110*, *127*
autofit(), *57*, *92*

before, 29
bg, *10*, 30, *33*, *47*, *54*, *61*, *70*, *76*, *81*, *91*, *97*, *122*
body_add_flextable, 31
body_replace_flextable_at_bkm *(*body_add_flextable*)*, 31
bold, *10*, *30*, 32, *47*, *54*, *61*, *70*, *76*, *81*, *91*, *97*, *122*

border_inner, 33, *34–37*, *71, 72*, *112*, *123–125*
border_inner_h, *33*, 34, *35–37*, *71, 72*, *112*, *123–125*
border_inner_h(), *111*
border_inner_v, *33, 34*, 35, *36, 37*, *71, 72*, *112*, *123–125*
border_inner_v(), *111*
border_outer, *33–35*, 36, *37*, *71, 72*, *112*, *123–125*
border_outer(), *111*
border_remove, *33–36*, 37, *71, 72*, *112*, *123–125*

colformat_char, 37, *39, 40*, *42–46*, *49*, *106*
colformat_date, *38*, 38, *40*, *42–46*, *49*, *106*
colformat_datetime, *38, 39*, 40, *42–46*, *49*, *106*
colformat_double, *38–40*, 41, *43–46*, *49*, *106*
colformat_double(), *45*, *104*, *106*
colformat_image, *38–40*, *42*, 42, *44–46*, *49*, *106*
colformat_int, *38–40*, *42, 43*, 43, *45, 46*, *49*, *106*
colformat_int(), *104*
colformat_lgl, *38–40*, *42–44*, 44, *46*, *49*, *106*
colformat_num, *38–40*, *42–45*, 45, *49*, *106*
colformat_num(), *5, 6*, *104*
color, *10*, *30*, *33*, 46, *54*, *61*, *70*, *76*, *81*, *91*, *97*, *122*
colorize, *10–13*, *22–24*, *26, 27*, 48, *67*, *75*, *81*, *83*, *88*, *94*
compose, *38–40*, *42–46*, 48, *106*
compose(), *4*, *12, 13*, *23, 24*, *57*, *66*, *74, 75*, *80–83*, *88*, *93*
continuous_summary, 49

delete_part, 50
df_printer, *26*, 51, *59*, *74*, *78*, *93*, *95*, *98–101*
df_printer(), *121*
dim.flextable, *29*, 52, *53*, *55*, *57*, *69*, *73*, *89, 90*, *110*, *127*
dim_pretty, *29*, *52*, 53, *55*, *57*, *69*, *73*, *89, 90*, *97*, *110*, *127*
dim_pretty(), *28*, *92*
div(), *74*

empty_blanks, *10*, *30*, *33*, *47*, 53, *61*, *70*, *76*, *81*, *91*, *97*, *122*

fit_to_width, *29*, *52, 53*, 54, *57*, *69*, *73*, *89, 90*, *110*, *127*
fix_border_issues, 55
flextable, 56
flextable(), *4, 5*, *102*, *121*
flextable-package, 4
flextable_dim, *29*, *52, 53*, *55*, 57, *69*, *73*, *89, 90*, *110*, *127*
flextable_html_dependency, 58
flextable_to_rmd, *26*, *52*, 58, *74*, *78*, *93*, *95*, *98–101*
font, *10*, *30*, *33*, *47*, *54*, 60, *61*, *70*, *76*, *81*, *91*, *97*, *122*
fontsize, *10*, *30*, *33*, *47*, *54*, *61*, 61, *70*, *76*, *81*, *91*, *97*, *122*
footers_flextable_at_bkm, 62
footnote, 62
footnote(), *57*
format(), *41*, *44–46*
formatC, *104*
fp_border(), *33–36*, *64*, *70–72*, *123–125*
fp_border_default, 64, *65*
fp_text(), *64*
fp_text_default, *64*, 64

get_flextable_defaults, 66, *105*, *114–121*
get_flextable_defaults(), *103*
gg_chunk, *10–13*, *22–24*, *26, 27*, *48*, 66, *75*, *81*, *83*, *88*, *94*

headers_flextable_at_bkm, 67
height, *29*, *52, 53*, *55*, *57*, 68, *73*, *89, 90*, *110*, *127*
height(), *92*
height_all *(*height*)*, 68
highlight, *10*, *30*, *33*, *47*, *54*, *61*, 69, *76*, *81*, *91*, *97*, *122*
hline, *33–37*, 70, *71, 72*, *112*, *123–125*
hline(), *29*, *64*, *111*
hline_bottom, *33–37*, *71*, 71, *72*, *112*, *123–125*
hline_top, *33–37*, *71*, 72, *112*, *123–125*
hline_top(), *111*
hrule, *29*, *52, 53*, *55*, *57*, *69*, 73, *89, 90*, *110*, *127*
hrule(), *69*
HTML, *74*
htmltools_value, *26*, *52*, *59*, 74, *78*, *93*, *95*, *98–101*

hyperlink_text, *10–13*, *22–24*, *26*, *27*, *48*, *67*, 74, *81*, *83*, *88*, *94*
hyperlink_text(), *25*

init_flextable_defaults (set_flextable_defaults), 103
italic, *10*, *30*, *33*, *47*, *54*, *61*, *70*, 75, *81*, *91*, *97*, *122*

knit_print.flextable, *26*, *52*, *58*, *59*, *74*, 76, *93*, *95*, *98–102*
knit_print.flextable(), *56*, *57*, *95*

line_spacing, *10*, *30*, *33*, *47*, *54*, *61*, *70*, *76*, 81, *91*, *97*, *122*
linerange, *10–13*, *22–24*, *26*, *27*, *48*, *67*, *75*, 80, *83*, *88*, *94*
lollipop, *10–13*, *22–24*, *26*, *27*, *48*, *67*, *75*, *81*, 82, *88*, *94*

merge_at, 83, *84–87*
merge_h, *84*, 84, *85–87*
merge_h(), *6*
merge_h_range, *84*, 85, *86*, *87*
merge_none, *84*, *85*, 85, *87*
merge_v, *84–86*, 86
merge_v(), *6*
minibar, *10–13*, *22–24*, *26*, *27*, *48*, *67*, *75*, *81*, *83*, 88, *94*
minibar(), *25*
mk_par (compose), 48

ncol_keys, *29*, *52*, *53*, *55*, *57*, *69*, *73*, 89, *90*, *110*, *127*
nrow_part, *29*, *52*, *53*, *55*, *57*, *69*, *73*, *89*, 90, *110*, *127*

officer::fp_text(), *12*, *75*
officer::ph_location_type(), *92*
officer::read_pptx(), *91*
officer::run_autonum(), *102*
officer::styles_info(), *102*

padding, *10*, *30*, *33*, *47*, *54*, *61*, *70*, *76*, *81*, 90, *97*, *122*
par(), *93*
ph_with.flextable, 91
plot.flextable, *26*, *52*, *59*, *74*, *78*, 92, *95*, *98–101*
plot_chunk, *10–13*, *22–24*, *26*, *27*, *48*, *67*, *75*, *81*, *83*, *88*, 93
print.flextable, *26*, *52*, *59*, *74*, *78*, *93*, 94, *98–101*
proc_freq, 95
prop_section, *98*

qflextable (flextable), 56

regulartable (flextable), 56
rotate, *10*, *30*, *33*, *47*, *54*, *61*, *70*, *76*, *81*, *91*, 96, *122*

save_as_docx, *26*, *52*, *59*, *74*, *78*, *93*, *95*, 98, *99–101*
save_as_html, *26*, *52*, *59*, *74*, *78*, *93*, *95*, *98*, 99, *100*, *101*
save_as_image, *26*, *52*, *59*, *74*, *78*, *93*, *95*, *98*, *99*, 100, *101*
save_as_pptx, *26*, *52*, *59*, *74*, *78*, *93*, *95*, *98–100*, 101
set_caption, 101
set_caption(), *57*
set_flextable_defaults, *66*, 103, *114–121*
set_flextable_defaults(), *56*, *64*, *113–119*, *121*
set_footer_df (set_header_footer_df), 107
set_formatter, *38–40*, *42–46*, *49*, 105
set_formatter_type (set_formatter), 105
set_header_df (set_header_footer_df), 107
set_header_footer_df, *6*, *8*, *9*, 107, *109*
set_header_labels, *6*, *8*, *9*, *107*, 108
set_table_properties, *29*, *52*, *53*, *55*, *57*, *69*, *73*, *89*, *90*, 109, *127*
strptime(), *39*, *40*, *104*
style, 110
style(), *57*
surround, *33–37*, *71*, *72*, 111, *123–125*

theme_alafoli, *66*, *105*, 113, *115–121*
theme_booktabs, *66*, *105*, *114*, 114, *116–121*
theme_booktabs(), *57*
theme_box, *66*, *105*, *114*, *115*, 115, *117–121*
theme_tron, *66*, *105*, *114–116*, 116, *118–121*
theme_tron_legacy, *66*, *105*, *114–117*, 117, *119–121*
theme_vader, *66*, *105*, *114–118*, 118, *120*, *121*

theme_vanilla, *66*, *105*, *114–119*, 119, *121*
theme_zebra, *66*, *105*, *114–120*, 120

use_df_printer, 121
use_df_printer(), *51*

valign, *10*, *30*, *33*, *47*, *54*, *61*, *70*, *76*, *81*, *91*, *97*, 122
vline, *33–37*, *71, 72*, *112*, 123, *124, 125*
vline(), *64*, *111*
vline_left, *33–37*, *71, 72*, *112*, *123*, 124, *125*
vline_left(), *111*
vline_right, *33–37*, *71, 72*, *112*, *123, 124*, 125
void, 126

width, *29*, *52, 53*, *55*, *57*, *69*, *73*, *89, 90*, *97*, *110*, 126
width(), *92*

xtable_to_flextable *(*as_flextable.xtable*)*, 19