

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', 'Microsoft PowerPoint' documents from 'R Markdown' and as 'Grid Graphics' objects. 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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<https://davidgohel.github.io/flextable/>

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

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flextable-package *flextable: Functions for Tabular Reporting*

Description

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

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

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

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

See Also

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

 add_body

Add column values as new lines in body

Description

The function adds a list of values to be inserted as new rows in the body. The values are inserted in existing columns of the input data of the flextable. Rows can be inserted at the top or the bottom of the body.

If some columns are not provided, they will be replaced by NA and displayed as empty.

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.
...	named arguments (names are data colnames) of 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 makes possible to still format cell contents with the <code>colformat_*</code> functions, for example <code>colformat_num()</code> .
values	a list of name-value pairs of labels or values, names should be existing <code>col_key</code> values. This argument can be used instead of <code>...</code> for programming purpose (If values is supplied argument <code>...</code> is ignored).

See Also

[flextable\(\)](#)

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_header\(\)](#), [set_header_footer_df\(\)](#), [set_header_labels\(\)](#)

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_body_row	<i>Add body labels</i>
--------------	------------------------

Description

Add a row of new columns labels in body part. Labels can be spanned along multiple columns, as merged cells.

Labels are associated with a number of columns to merge that default to one if not specified. In this case, you have to make sure that the number of labels is equal to the number of columns displayed.

The function can add only one single row by call.

Labels can also be formatted with [as_paragraph\(\)](#).

Usage

```
add_body_row(x, top = TRUE, values = list(), colwidths = integer(0))
```

Arguments

x	a flextable object
top	should the row be inserted at the top or the bottom.
values	values to add. It can be a list, a character() vector or a call to as_paragraph() . If it is a list, it can be a named list with the names of the columns of the original data.frame or the colkeys; this is the recommended method because it allows to keep the original data types and therefore allows to perform conditional formatting. If a character, columns of the original data.frame stored in the flextable object are changed to character(); this is often not an issue with footer and header but can be inconvenient if adding rows into body as it will change data types to character and prevent efficient conditional formatting.
colwidths	the number of columns to merge in the row for each label

See Also

[flextable\(\)](#), [set_caption\(\)](#)

Other functions to add rows in a flextable: [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_header\(\)](#), [set_header_footer_df\(\)](#), [set_header_labels\(\)](#)

Examples

```

library(flextable)

ft01 <- fp_text_default(color = "red")
ft02 <- fp_text_default(color = "orange")

pars <- as_paragraph(
  as_chunk(c("(1)", "(2)"), props = ft02), " ",
  as_chunk(
    c(
      "My tailor is rich",
      "My baker is rich"
    ),
    props = ft01
  )
)

ft_1 <- flextable(head(mtcars))
ft_1 <- add_body_row(ft_1,
  values = pars,
  colwidths = c(5, 6), top = FALSE
)
ft_1 <- add_body_row(ft_1,
  values = pars,
  colwidths = c(3, 8), top = TRUE
)
ft_1 <- theme_box(ft_1)
ft_1

ft_2 <- flextable(head(airquality))
ft_2 <- add_body_row(ft_2,
  values = c("blah", "bleeeh"),
  colwidths = c(4, 2), top = TRUE
)
ft_2 <- theme_box(ft_2)
ft_2

```

add_footer

Add column values as new lines in footer

Description

The function adds a list of values to be inserted as new rows in the footer. The values are inserted in existing columns of the input data of the flextable. Rows can be inserted at the top or the bottom of the footer.

If some columns are not provided, they will be replaced by NA and displayed as empty.

Usage

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


Arguments

x	a flextable object
top	should the rows be inserted at the top or the bottom.
...	named arguments (names are data colnames) of 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 makes possible to still format cell contents with the <code>colformat_*</code> functions, for example <code>colformat_num()</code> .
values	a list of name-value pairs of labels or values, names should be existing <code>col_key</code> values. This argument can be used instead of <code>...</code> for programming purpose (If values is supplied argument <code>...</code> is ignored).

See Also

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_header\(\)](#), [set_header_footer_df](#), [set_header_labels\(\)](#)

Examples

```
new_row <- as.list(colMeans(iris[, -5]))
new_row$Species <- "Means"

formatter <- function(x) sprintf("%.1f", x)

ft <- flextable(data = head(iris))
ft <- add_footer(ft, values = new_row)

# cosmetics
ft <- compose(
  x = ft, j = 1:4,
  value = as_paragraph(
    as_chunk(., formatter = formatter)
  ),
  part = "footer", use_dot = TRUE
)
ft <- align(ft, part = "footer", align = "right", j = 1:4)
ft
```

add_footer_lines *Add labels as new rows in the footer*

Description

Add labels as new rows in the footer, where all columns are merged.

This is a sugar function to be used when you need to add labels in the footer, a footnote for example.

Usage

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

Arguments

x a flextable object

values a character vector or a call to [as_paragraph\(\)](#) to get formatted content, each element will be added as a new row.

top should the row be inserted at the top or the bottom. Default to TRUE.

Illustrations**See Also**

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_header\(\)](#), [set_header_footer_df\(\)](#), [set_header_labels\(\)](#)

Examples

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

add_footer_row	<i>Add footer labels</i>
----------------	--------------------------

Description

Add a row of new columns labels in footer part. Labels can be spanned along multiple columns, as merged cells.

Labels are associated with a number of columns to merge that default to one if not specified. In this case, you have to make sure that the number of labels is equal to the number of columns displayed.

The function can add only one single row by call.

Labels can be formatted with [as_paragraph\(\)](#).

Usage

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

Arguments

x	a flextable object
top	should the row be inserted at the top or the bottom.
values	values to add. It can be a list, a character() vector or a call to as_paragraph() . If it is a list, it can be a named list with the names of the columns of the original data.frame or the colkeys; this is the recommended method because it allows to keep the original data types and therefore allows to perform conditional formatting. If a character, columns of the original data.frame stored in the flextable object are changed to character(); this is often not an issue with footer and header but can be inconvenient if adding rows into body as it will change data types to character and prevent efficient conditional formatting.
colwidths	the number of columns to merge in the row for each label

See Also

[flextable\(\)](#), [set_caption\(\)](#)

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_header\(\)](#), [set_header_footer_df\(\)](#), [set_header_labels\(\)](#)

Examples

```
library(flextable)

ft01 <- fp_text_default(color = "red")
ft02 <- fp_text_default(color = "orange")

pars <- as_paragraph(
  as_chunk(c("(1)", "(2)"), props = ft02), " ",
  as_chunk(
    c(
      "My tailor is rich",
      "My baker is rich"
    ),
    props = ft01
  )
)

ft_1 <- flextable(head(mtcars))
ft_1 <- add_footer_row(ft_1,
  values = pars,
  colwidths = c(5, 6), top = FALSE
)
ft_1 <- add_footer_row(ft_1,
  values = pars,
  colwidths = c(3, 8), top = TRUE
)
ft_1
```

```
ft_2 <- flextable(head(airquality))
ft_2 <- add_footer_row(ft_2,
  values = c("Measure", "Time"),
  colwidths = c(4, 2), top = TRUE
)
ft_2 <- theme_box(ft_2)
ft_2
```

add_header

Add column values as new lines in header

Description

The function adds a list of values to be inserted as new rows in the header. The values are inserted in existing columns of the input data of the flextable. Rows can be inserted at the top or the bottom of the header.

If some columns are not provided, they will be replaced by NA and displayed as empty.

Usage

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

Arguments

x	a flextable object
top	should the rows be inserted at the top or the bottom.
...	named arguments (names are data colnames) of 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 makes possible to still format cell contents with the <code>colformat_*</code> functions, for example <code>colformat_num()</code> .
values	a list of name-value pairs of labels or values, names should be existing <code>col_key</code> values. This argument can be used instead of <code>...</code> for programming purpose (If values is supplied argument <code>...</code> is ignored).

Note

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

See Also

Other functions to add rows in a flextable: `add_body_row()`, `add_body()`, `add_footer_lines()`, `add_footer_row()`, `add_footer()`, `add_header_row()`, `separate_header()`, `set_header_footer_df`, `set_header_labels()`

Examples

```

library(flextable)

fun <- function(x) {
  paste0(
    c("min: ", "max: "),
    formatC(range(x))
  )
}

new_row <- list(
  Sepal.Length = fun(iris$Sepal.Length),
  Sepal.Width = fun(iris$Sepal.Width),
  Petal.Width = fun(iris$Petal.Width),
  Petal.Length = fun(iris$Petal.Length)
)

ft_1 <- flextable(data = head(iris))
ft_1 <- add_header(ft_1, values = new_row, top = FALSE)
ft_1 <- append_chunks(ft_1, part = "header", i = 2, )
ft_1 <- theme_booktabs(ft_1, bold_header = TRUE)
ft_1 <- align(ft_1, align = "center", part = "all")
ft_1

```

add_header_lines

Add labels as new rows in the header

Description

Add labels as new rows in the header, where all columns are merged.

This is a sugar function to be used when you need to add labels in the header, most of the time it will be used to adding titles on the top rows of the flextable.

Usage

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

Arguments

x	a flextable object
values	a character vector or a call to as_paragraph() to get formatted content, each element will be added as a new row.
top	should the row be inserted at the top or the bottom. Default to TRUE.

Illustrations

Examples

```

# ex 1----
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

# ex 2----
ft01 <- fp_text_default(color = "red")
ft02 <- fp_text_default(color = "orange")
ref <- c("(1)", "(2)")
pars <- as_paragraph(
  as_chunk(ref, props = ft02), " ",
  as_chunk(rep("My tailor is rich", length(ref)), props = ft01)
)

ft_2 <- flextable(head(mtcars))
ft_2 <- add_header_lines(ft_2, values = pars, top = FALSE)
ft_2 <- add_header_lines(ft_2, values = ref, top = TRUE)
ft_2 <- add_footer_lines(ft_2, values = "blah", top = TRUE)
ft_2 <- add_footer_lines(ft_2, values = pars, top = TRUE)
ft_2 <- add_footer_lines(ft_2, values = ref, top = FALSE)
ft_2 <- autofit(ft_2)
ft_2

```

add_header_row

Add header labels

Description

Add a row of new columns labels in header part. Labels can be spanned along multiple columns, as merged cells.

Labels are associated with a number of columns to merge that default to one if not specified. In this case, you have to make sure that the number of labels is equal to the number of columns displayed.

The function can add only one single row by call.

Labels can also be formatted with [as_paragraph\(\)](#).

Usage

```
add_header_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. Default to TRUE.
values	values to add, a character vector (as header rows contains only character values/columns), a list or a call to as_paragraph() .
colwidths	the number of columns used for each label

See Also

[flextable\(\)](#), [set_caption\(\)](#)

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header\(\)](#), [separate_header\(\)](#), [set_header_footer_df\(\)](#), [set_header_labels\(\)](#)

Examples

```
library(flextable)

ft01 <- fp_text_default(color = "red")
ft02 <- fp_text_default(color = "orange")

pars <- as_paragraph(
  as_chunk(c("(1)", "(2)"), props = ft02), " ",
  as_chunk(c("My tailor is rich",
            "My baker is rich"), props = ft01)
)

ft_1 <- flextable(head(mtcars))
ft_1 <- add_header_row(ft_1, values = pars,
  colwidths = c(5, 6), top = FALSE)
ft_1 <- add_header_row(ft_1, values = pars,
  colwidths = c(3, 8), top = TRUE)
ft_1

ft_2 <- flextable(head(airquality))
ft_2 <- add_header_row(ft_2, values = c("Measure", "Time"),
  colwidths = c(4, 2), top = TRUE)
ft_2 <- theme_box(ft_2)
ft_2
```

align

Set text alignment

Description

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

Usage

```
align(
  x,
  i = NULL,
  j = NULL,
  align = c("left", "center", "right", "justify"),
  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
```

append_chunks

append chunks to flextable content

Description

append chunks (for example chunk [as_chunk\(\)](#)) in a flextable.

Usage

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


Arguments

x	a flextable object
...	chunks to be appened, see as_chunk() , gg_chunk() and other chunk elements for paragraph.
i	rows selection
j	column selection
part	partname of the table (one of 'body', 'header', 'footer')

Illustrations**See Also**

[as_chunk\(\)](#), [as_sup\(\)](#), [as_sub\(\)](#), [colorize\(\)](#)

Other functions for mixed content paragraphs: [as_paragraph\(\)](#), [compose\(\)](#), [prepend_chunks\(\)](#)

Examples

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

ft_1 <- flextable(head(cars))

ft_1 <- append_chunks(ft_1,
  # where to append
  i = c(1, 3, 5),
  j = 1,
  # what to append
  as_chunk(" "),
  as_image(src = img.file, width = .20, height = .15)
)
ft_1 <- set_table_properties(ft_1, layout = "autofit")
ft_1
```

as_b

bold chunk

Description

The function is producing a chunk with bold font.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

Usage

```
as_b(x)
```

Arguments

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

Illustrations**See Also**

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_chunk\(\)](#), [as_equation\(\)](#), [as_highlight\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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 is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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 formatted text in flextable cells.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

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 fp_text_default() or 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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

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", props = NULL)
```

Arguments

<code>x</code>	values containing the 'MathJax' equations
<code>width, height</code>	size of the resulting equation
<code>unit</code>	unit for width and height, one of "in", "cm", "mm".
<code>props</code>	an fp_text_default() or <code>officer::fp_text()</code> object to be used to format the text. If not specified, it will be the default value corresponding to the cell.

See Also

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_chunk\(\)](#), [as_highlight\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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.data.frame\(\)](#), [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.kmeans\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.merMod\(\)](#), [as_flextable.pam\(\)](#), [as_flextable.summarizor\(\)](#), [as_flextable.tabulator\(\)](#), [as_flextable.xtable\(\)](#)

```
as_flextable.data.frame
```

Printing data.frame summary as a flextable

Description

It displays the first rows and shows the column types. If there is only one row, a simplified vertical table is produced.

Usage

```
## S3 method for class 'data.frame'
as_flextable(
  x,
  max_row = 10,
  split_colnames = FALSE,
  short_strings = FALSE,
  short_size = 35,
  short_suffix = "...",
  do_autofit = TRUE,
  show_coltype = TRUE,
  color_coltype = "#999999",
  ...
)
```

Arguments

x	a data.frame
max_row	The number of rows to print. Default to 10.
split_colnames	Should the column names be split (with non alpha-numeric characters). Default to FALSE.
short_strings	Should the character column be shorten. Default to FALSE.
short_size	Maximum length of character column if short_strings is TRUE. Default to 35.
short_suffix	Suffix to add when character values are shorten. Default to "...".
do_autofit	Use autofit() before rendering the table. Default to TRUE.
show_coltype	Show column types. Default to TRUE.
color_coltype	Color to use for column types. Default to "#999999".
...	unused arguments

See Also

Other `as_flextable` methods: [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.kmeans\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.merMod\(\)](#), [as_flextable.pam\(\)](#), [as_flextable.summarizor\(\)](#), [as_flextable.tabulator\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```
as_flextable(mtcars)
```

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

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.data.frame()`, `as_flextable.grouped_data()`, `as_flextable.htest()`, `as_flextable.kmeans()`, `as_flextable.lm()`, `as_flextable.merMod()`, `as_flextable.pam()`, `as_flextable.summarizor()`, `as_flextable.tabulator()`, `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.data.frame\(\)](#), [as_flextable.glm\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.kmeans\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.merMod\(\)](#), [as_flextable.pam\(\)](#), [as_flextable.summarizor\(\)](#), [as_flextable.tabulator\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

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

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

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

`as_flextable.htest` *tabular summary for htest object*

Description

produce a flextable describing an object oof class `htest`.

Usage

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

Arguments

`x` `htest` object
`...` unused argument

See Also

Other `as_flextable` methods: `as_flextable.data.frame()`, `as_flextable.glm()`, `as_flextable.grouped_data()`, `as_flextable.kmeans()`, `as_flextable.lm()`, `as_flextable.merMod()`, `as_flextable.pam()`, `as_flextable.summarizor()`, `as_flextable.tabulator()`, `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.kmeans` *tabular summary for kmeans*

Description

produce a flextable describing a `kmeans` object. The function is only using package 'broom' that provides the data presented in the resulting flextable.

Usage

```
## S3 method for class 'kmeans'
as_flextable(x, digits = 4, ...)
```

Arguments

<code>x</code>	a <code>kmeans()</code> object
<code>digits</code>	number of digits for the numeric columns
<code>...</code>	unused argument

See Also

Other `as_flextable` methods: `as_flextable.data.frame()`, `as_flextable.glm()`, `as_flextable.grouped_data()`, `as_flextable.htest()`, `as_flextable.lm()`, `as_flextable.merMod()`, `as_flextable.pam()`, `as_flextable.summarizor()`, `as_flextable.tabulator()`, `as_flextable.xtable()`, `as_flextable()`

Examples

```
if(require("stats")){
  cl <- kmeans(scale(mtcars[1:7]), 5)
  ft <- as_flextable(cl)
  ft
}
```

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

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.data.frame\(\)](#), [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.kmeans\(\)](#), [as_flextable.merMod\(\)](#), [as_flextable.pam\(\)](#), [as_flextable.summarizor\(\)](#), [as_flextable.tabulator\(\)](#), [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.merMod	<i>tabular summary for mixed model</i>
---------------------	--

Description

produce a flextable describing a mixed model. The function is only using package 'broom.mixed' that provides the data presented in the resulting flextable.

Usage

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

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

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

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

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

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

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

Arguments

x	a mixed model
...	unused argument

See Also

Other `as_flextable` methods: [as_flextable.data.frame\(\)](#), [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.kmeans\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.pam\(\)](#), [as_flextable.summarizor\(\)](#), [as_flextable.tabulator\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```
if(require("broom.mixed") && require("nlme")){
  m1 <- lme(distance ~ age, data = Orthodont)
  ft <- as_flextable(m1)
  ft
}
```

as_flextable.pam

tabular summary for pam

Description

produce a flextable describing a pam object. The function is only using package 'broom' that provides the data presented in the resulting flextable.

Usage

```
## S3 method for class 'pam'
as_flextable(x, digits = 4, ...)
```

Arguments

```
x                a cluster::pam() object
digits           number of digits for the numeric columns
...             unused argument
```

See Also

Other `as_flextable` methods: `as_flextable.data.frame()`, `as_flextable.glm()`, `as_flextable.grouped_data()`, `as_flextable.htest()`, `as_flextable.kmeans()`, `as_flextable.lm()`, `as_flextable.merMod()`, `as_flextable.summarizor()`, `as_flextable.tabulator()`, `as_flextable.xtable()`, `as_flextable()`

Examples

```
if(require("cluster")){
  dat <- as.data.frame(scale(mtcars[1:7]))
  cl <- pam(dat, 3)
  ft <- as_flextable(cl)
  ft
}
```

```
as_flextable.summarizor
```

summarizor to flextable

Description

summarizor object can be transformed as a flextable with method `as_flextable()`.

Usage

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

Arguments

```
x                result from summarizor()
...             arguments for as_flextable.tabulator()
```

See Also

Other `as_flextable` methods: `as_flextable.data.frame()`, `as_flextable.glm()`, `as_flextable.grouped_data()`, `as_flextable.htest()`, `as_flextable.kmeans()`, `as_flextable.lm()`, `as_flextable.merMod()`, `as_flextable.pam()`, `as_flextable.tabulator()`, `as_flextable.xtable()`, `as_flextable()`

Examples

```

z <- summarizor(CO2[-c(1, 4)],
  by = "Treatment",
  overall_label = "Overall"
)
ft_1 <- as_flextable(z, spread_first_col = TRUE)
ft_1 <- prepend_chunks(ft_1,
  i = ~ is.na(variable), j = 1,
  as_chunk("\t"))
ft_1 <- autofit(ft_1)
ft_1

```

as_flextable.tabulator

tabulator to flextable

Description

tabulator object can be transformed as a flextable with method `as_flextable()`.

Usage

```

## S3 method for class 'tabulator'
as_flextable(
  x,
  separate_with = character(0),
  big_border = fp_border_default(width = 1.5),
  small_border = fp_border_default(width = 0.75),
  rows_alignment = "left",
  columns_alignment = "center",
  label_rows = x$rows,
  spread_first_col = FALSE,
  expand_single = FALSE,
  sep_w = 0.05,
  unit = "in",
  ...
)

```

Arguments

`x` result from `tabulator()`

`separate_with` columns used to separate the groups with an horizontal line.

`big_border`, `small_border` big and small border properties defined by a call to `fp_border_default()` or `fp_border()`.

rows_alignment, columns_alignment	alignments to apply to columns corresponding to rows and columns; see arguments rows and columns in tabulator() .
label_rows	labels to use for the first column names, i.e. the <i>row</i> column names. It must be a named vector, the values will be matched based on the names.
spread_first_col	if TRUE, first row is spread as a new line separator instead of being a column. This helps to reduce the width and allows for clear divisions.
expand_single	if FALSE (the default), groups with only one row will not be expanded with a title row. If TRUE, single row groups and multi-row groups are all restructured.
sep_w	blank column separators'width to be used. If 0, blank column separators will not be used.
unit	unit of argument sep_w, one of "in", "cm", "mm".
...	unused argument

See Also

[summarizor\(\)](#), [as_grouped_data\(\)](#)

Other as_flextable methods: [as_flextable.data.frame\(\)](#), [as_flextable.glm\(\)](#), [as_flextable.grouped_data\(\)](#), [as_flextable.htest\(\)](#), [as_flextable.kmeans\(\)](#), [as_flextable.lm\(\)](#), [as_flextable.merMod\(\)](#), [as_flextable.pam\(\)](#), [as_flextable.summarizor\(\)](#), [as_flextable.xtable\(\)](#), [as_flextable\(\)](#)

Examples

```
library(flextable)

set_flextable_defaults(digits = 2, border.color = "gray")

if(require("stats")){
  dat <- aggregate(breaks ~ wool + tension,
    data = warpbreaks, mean)

  cft_1 <- tabulator(x = dat,
    rows = "wool",
    columns = "tension",
    `mean` = as_paragraph(as_chunk(breaks)),
    `(N)` = as_paragraph(
      as_chunk(length(breaks) ))
  )

  ft_1 <- as_flextable(cft_1, sep_w = .1)
  ft_1

  set_flextable_defaults(padding = 1, font.size = 9, border.color = "orange")
  ft_2 <- as_flextable(cft_1, sep_w = 0)
  ft_2

  set_flextable_defaults(padding = 6, font.size = 11,
    border.color = "white", font.color = "white",
```

```

                                background.color = "#333333")
ft_3 <- as_flextable(
  x = cft_1, sep_w = 0,
  rows_alignment = "center",
  columns_alignment = "right")
ft_3
}

init_flextable_defaults()

```

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

Description

Get a flextable object from a xtable object.

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),
  ...
)

```

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.data.frame()`, `as_flextable.glm()`, `as_flextable.grouped_data()`, `as_flextable.htest()`, `as_flextable.kmeans()`, `as_flextable.lm()`, `as_flextable.merMod()`, `as_flextable.pam()`, `as_flextable.summarizor()`, `as_flextable.tabulator()`, `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|c|r|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	<i>grouped data transformation</i>
-----------------	------------------------------------

Description

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

Usage

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

Arguments

x	dataset
groups	columns names to be used as row separators.
columns	columns names to keep
expand_single	if FALSE, groups with only one row will not be expanded with a title row. If TRUE (the default), single row groups and multi-row groups are all restructured.

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	<i>highlight chunk</i>
--------------	------------------------

Description

The function is producing a chunk with an highlight chunk.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

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.

See Also

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_chunk\(\)](#), [as_equation\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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	<i>italic chunk</i>
------	---------------------

Description

The function is producing a chunk with italic font.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

Usage

```
as_i(x)
```

Arguments

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

Illustrations**See Also**

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_chunk\(\)](#), [as_equation\(\)](#), [as_highlight\(\)](#), [as_image\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_chunk\(\)](#), [hyperlink_text\(\)](#), [linrange\(\)](#), [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 functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#)

Usage

```
as_image(src, width = NULL, height = NULL, unit = "in", guess_size = TRUE, ...)
```

Arguments

src	image filename
width, height	size of the image file. It can be ignored if parameter guess_size=TRUE, see parameter guess_size.
unit	unit for width and height, one of "in", "cm", "mm".
guess_size	If package 'magick' is installed, this option can be used (set it to TRUE and don't provide values for parameters width and height). When the flextable will be printed, the images will be read and width and height will be guessed. This should be avoided if possible as it can be an extensive task when several images.
...	unused argument

Note

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting to PowerPoint format.

See Also

`compose()`, `as_paragraph()`

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

Examples

```
img.file <- file.path( R.home("doc"),
  "html", "logo.jpg" )
if (require("magick")) {
  myft <- flextable( head(iris))
  myft <- compose( myft, i = 1:3, j = 1,
    value = as_paragraph(
      as_image(src = img.file),
      " ",
      as_chunk(Sepal.Length,
        props = fp_text_default(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 functions such as `compose()`, `add_header_lines()`, `add_footer_lines()`.

This allows the concatenation of formatted pieces of text (chunks) that represent the content of a paragraph.

The cells of a flextable contain each a single paragraph. This paragraph is made of chunks that can be text, images or plots, equations and links.

Usage

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

Arguments

... chunk elements that are defining paragraph. If a character is used, it is transformed to a chunk object with function `as_chunk()`.

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\(\)](#)

Other functions for mixed content paragraphs: [append_chunks\(\)](#), [compose\(\)](#), [prepend_chunks\(\)](#)

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".

... additional arguments passed to other functions

Note

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

See Also

Other flextable print function: `df_printer()`, `flextable_to_rmd()`, `gen_grob()`, `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.

It is used to add it to the content of a cell of the flextable with the functions `compose()`, `append_chunks()` or `prepend_chunks()`.

Usage

```
as_sub(x)
```

Arguments

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

Illustrations**See Also**

Other chunk elements for paragraph: `as_bracket()`, `as_b()`, `as_chunk()`, `as_equation()`, `as_highlight()`, `as_image()`, `as_i()`, `as_sup()`, `as_word_field()`, `colorize()`, `gg_chunk()`, `grid_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.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

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 formatings. It should be used inside a call to [as_paragraph\(\)](#).

See Also

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_chunk\(\)](#), [as_equation\(\)](#), [as_highlight\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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
```

as_word_field	<i>'Word' computed field</i>
---------------	------------------------------

Description

This function is used to insert 'Word' computed field into flextable.

It is used to add it to the content of a cell of the flextable with the functions [compose\(\)](#), [append_chunks\(\)](#) or [prepend_chunks\(\)](#).

This has only effect on 'Word' output. If you want to condition its execution only for Word output, you can use it in the post processing step (see `set_flextable_defaults(post_process_docx = ...)`)

Do not forget to update the computed field in Word. Fields are defined but are not computed, this computing is an operation that has to be made by 'Microsoft Word' (select all text and hit F9 when on mac os).

Usage

```
as_word_field(x, props = NULL, width = 0.1, height = 0.15, unit = "in")
```

Arguments

x	computed field strings
props	text properties (see fp_text_default() or officer::fp_text()) object to be used to format the text. If not specified, it will use the default text properties of the cell(s).
width, height	size computed field
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_equation\(\)](#), [as_highlight\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_chunk\(\)](#), [hyperlink_text\(\)](#), [linerange\(\)](#), [lollipop\(\)](#), [minibar\(\)](#), [plot_chunk\(\)](#)

Examples

```

library(flextable)

# define some default values ----
set_flextable_defaults(font.size = 22, border.color = "gray")

# an example with append_chunks ----
pp_docx = function(x) {
  x <- add_header_lines(x, "Page ")
  x <- append_chunks(
    x = x, i = 1, part = "header", j = 1,
    as_word_field(x = "Page")
  )
  align(x, part = "header", align = "left")
}
ft_1 <- flextable(cars)
ft_1 <- autofit(ft_1)
ft_1 <- pp_docx(ft_1)

## or:
# set_flextable_defaults(post_process_docx = pp_docx)
## to prevent this line addition when output is not docx

# print(ft_1, preview = "docx")

# an example with compose ----

library(officer)
ft_2 <- flextable(head(cars))
ft_2 <- add_footer_lines(ft_2, "temp text")
ft_2 <- compose(
  x = ft_2, part = "footer", i = 1, j = 1,
  as_paragraph("p. ",
    as_word_field(x = "Page", width = .05),
    " on ", as_word_field(x = "NumPages", width = .05))
)
ft_2 <- autofit(ft_2, part = c("header", "body"))

doc <- read_docx()
doc <- body_add_flextable(doc, ft_2)
doc <- body_add_break(doc)
doc <- body_add_flextable(doc, ft_2)
outfile <- print(doc, target = tempfile(fileext = ".docx"))

# reset default values ----
init_flextable_defaults()

```

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 be adjusted to fit the size of the content.

The function does not let you adjust a content that is too wide in a paginated document. It simply calculates the width of the columns so that each content has the minimum width necessary to display the content on one line.

Note that this function is not related to 'Microsoft Word' *Autofit* feature.

There is an alternative to fixed-width layouts that works well with HTML and Word output that can be set with `set_table_properties(layout = "autofit")`, see `set_table_properties()`.

Usage

```
autofit(
  x,
  add_w = 0.1,
  add_h = 0.1,
  part = c("body", "header"),
  unit = "in",
  hspans = "none"
)
```

Arguments

<code>x</code>	flextable object
<code>add_w</code>	extra width to add in inches
<code>add_h</code>	extra height to add in inches
<code>part</code>	partname of the table (one of 'all', 'body', 'header' or 'footer')
<code>unit</code>	unit for <code>add_h</code> and <code>add_w</code> , one of "in", "cm", "mm".
<code>hspans</code>	specifies how cells that are horizontally are included in the calculation. It must be one of the following values "none", "divided" or "included". If "none", widths of horizontally spanned cells is set to 0 (then do not affect the widths); if "divided", widths of horizontally spanned cells is divided by the number of spanned cells; if "included", all widths (included horizontally spanned cells) will be used in the calculation.

Illustrations

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	<i>Set background color</i>
----	-----------------------------

Description

Change background color of selected rows and columns of a flextable. A function can be used instead of fixed colors.

When `bg` is a function, it is possible to color cells based on values located in other columns, using hidden columns (those not used by argument `colkeys`) is a common use case. The argument `source` has to be used to define what are the columns to be used for the color definition and the argument `j` has to be used to define where to apply the colors and only accept values from `colkeys`.

Usage

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

Arguments

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

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 = NULL,
  pos = "after",
  split = NULL,
  topcaption = TRUE,
  keepnext = NULL
)

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.
keepnext	default to FALSE, 'keep with next' binds the table to the first line of the next block (a paragraph or a table). It ensures no page break happens between the two blocks.
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	<i>set vertical & horizontal inner borders</i>
--------------	--

Description

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

Usage

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

Arguments

x	a flextable object
border	border 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	<i>set inner borders</i>
----------------	--------------------------

Description

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

Usage

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

Arguments

x	a flextable object
border	border 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	<i>set vertical inner borders</i>
----------------	-----------------------------------

Description

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

Usage

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

Arguments

x	a flextable object
border	border 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	<i>set outer borders</i>
--------------	--------------------------

Description

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

Usage

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

Arguments

x	a flextable object
border	border 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

See Also

Other cells formatters: [colformat_datetime\(\)](#), [colformat_date\(\)](#), [colformat_double\(\)](#), [colformat_image\(\)](#), [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [set_formatter\(\)](#)

Examples

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

colformat_date	<i>format date cells</i>
----------------	--------------------------

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, nan_str	string to be used for NA and NaN values
prefix, suffix	string to be used as prefix or suffix

See Also

Other cells formatters: [colformat_char\(\)](#), [colformat_datetime\(\)](#), [colformat_double\(\)](#), [colformat_image\(\)](#), [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [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, nan_str string to be used for NA and NaN values
prefix, suffix string to be used as prefix or suffix

See Also

Other cells formatters: [colformat_char\(\)](#), [colformat_date\(\)](#), [colformat_double\(\)](#), [colformat_image\(\)](#), [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [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 formatC()
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_char\(\)](#), [colformat_datetime\(\)](#), [colformat_date\(\)](#), [colformat_image\(\)](#), [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [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	<i>format cells as images</i>
-----------------	-------------------------------

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, 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_char\(\)](#), [colformat_datetime\(\)](#), [colformat_date\(\)](#), [colformat_double\(\)](#), [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#), [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, nan_str	string to be used for NA and NaN values
prefix, 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\(\)](#), [set_formatter\(\)](#)

Examples

```

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

```

colformat_lgl	<i>format logical cells</i>
---------------	-----------------------------

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, nan_str	string to be used for NA and NaN values
prefix, 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\(\)](#), [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	<i>format numeric cells</i>
---------------	-----------------------------

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 and NA are replaced).

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 <code>format()</code>
na_str, nan_str	string to be used for NA and NaN values
prefix, suffix	string to be used as prefix or suffix
...	additional argument for function <code>format()</code> , scientific and digits can not be used.

format call

Function `format()` is called with the following values:

- trim is set to TRUE,
- scientific is set to FALSE,
- big.mark is set to the value of big.mark argument,

- `decimal.mark` is set to the value of `decimal.mark` argument,
- other arguments are passed 'as is' to the `format` function.

argument `digits` is ignored as it is not the same `digits` that users want, this one will be used by `format()` and not `formatC()`. To change the digit argument use `options(digits=4)` instead.

This argument will not be changed because `colformat_num()` is supposed to format things roughly as what you see on the R console.

If these functions does not fit your needs, use `set_formatter()` that lets you use any format function.

Illustrations

See Also

Other cells formatters: `colformat_char()`, `colformat_datetime()`, `colformat_date()`, `colformat_double()`, `colformat_image()`, `colformat_int()`, `colformat_lgl()`, `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 text color of selected rows and columns of a flextable. A function can be used instead of fixed colors.

When `color` is a function, it is possible to color cells based on values located in other columns, using hidden columns (those not used by argument `colkeys`) is a common use case. The argument `source` has to be used to define what are the columns to be used for the color definition and the argument `j` has to be used to define where to apply the colors and only accept values from `colkeys`.

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 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 other columns.

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	<i>colorize chunk</i>
----------	-----------------------

Description

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

It is used to add it to the content of a cell of the flextable with the functions `compose()`, `append_chunks()` or `prepend_chunks()`.

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.

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()`, `as_word_field()`, `gg_chunk()`, `grid_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	<i>Define displayed values and mixed content</i>
---------	--

Description

Modify flextable displayed values with eventually mixed content paragraphs.

Function is handling complex formatting as image insertion with `as_image()`, superscript with `as_sup()`, formatted text with `as_chunk()` and several other *chunk* functions.

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

If you only need to add some content at the end or the beginning of paragraphs and keep existing content as it is, functions `append_chunks()` and `prepend_chunks()` should be preferred.

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**

[fp_text_default\(\)](#), [as_chunk\(\)](#), [as_b\(\)](#), [as_word_field\(\)](#), [labelizer\(\)](#)

Other functions for mixed content paragraphs: [append_chunks\(\)](#), [as_paragraph\(\)](#), [prepend_chunks\(\)](#)

Examples

```
ft_1 <- flextable(head(cars, n = 5), col_keys = c("speed", "dist", "comment"))
ft_1 <- mk_par(
  x = ft_1, j = "comment",
  i = ~ dist > 9,
  value = as_paragraph(
    colorize(as_i("speed: "), color = "gray"),
    as_sup(sprintf("%.0f", speed))
  )
)
ft_1 <- set_table_properties(ft_1, layout = "autofit")
ft_1

# using `use_dot = TRUE` ----
set.seed(8)
dat <- iris[sample.int(n = 150, size = 10),]
dat <- dat[order(dat$Species),]

ft_2 <- flextable(dat)
ft_2 <- mk_par(ft_2, j = ~ . -Species,
  value = as_paragraph(
    minibar(., barcol = "white",
      height = .1)
  )
)
```



```
    ), use_dot = TRUE
  )
ft_2 <- theme_vader(ft_2)
ft_2 <- autofit(ft_2)
ft_2
```

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

Examples

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

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

Description

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

Usage

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

Arguments

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

Illustrations

Examples

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

df_printer	<i>data.frame automatic printing as a flextable</i>
------------	---

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\(\)](#), [gen_grob\(\)](#), [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.flextableGrob *Get optimal width and height of a flextable grob*

Description

returns the optimal width and height for the grob, according to the grob generation parameters.

Usage

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

Arguments

x a flextableGrob object

Value

a named list with two elements, width and height. Values are expressed in inches.

Examples

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

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

Description

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

Usage

```
dim_pretty(x, part = "all", unit = "in", hspans = "none")
```

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".
hspans	specifies how cells that are horizontally are included in the calculation. It must be one of the following values "none", "divided" or "included". If "none", widths of horizontally spanned cells is set to 0 (then do not affect the widths); if "divided", widths of horizontally spanned cells is divided by the number of spanned cells; if "included", all widths (included horizontally spanned cells) will be used in the calculation.

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

Description

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

Usage

```
empty_blanks(x, width = 0.05, unit = "in", part = "all")
```

Arguments

x	a flextable object
width	width of blank columns (.1 inch by default).
unit	unit for width, one of "in", "cm", "mm".
part	partname of the table (one of 'all', 'body', 'header', 'footer')

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 easily be defined, rows heights and columns widths can be manually set or automatically computed.

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

Usage

```

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

```

```
qflextable(data)
```

Arguments

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

Reuse frequently used parameters

Some default formatting properties are automatically applied to every flextable you produce.

It is highly recommended to use this function because its use will minimize the code. For example, instead of calling the `fontsize()` function over and over again for each new flextable, set the font size default value by calling (before creating the flextables) `set_flextable_defaults(font.size = 11)`. This is also a simple way to have homogeneous arrays and make the documents containing them easier to read.

You can change these default values with function `set_flextable_defaults()`. You can re-set them with function `init_flextable_defaults()`. You can access these values by calling `get_flextable_defaults()`.

new lines and tabulations

The 'flextable' package will translate for you the new lines expressed in the form `\n` and the tabs expressed in the form `\t`.

The new lines will be transformed into "soft-return", that is to say a simple carriage return and not a new paragraph.

Tabs are different depending on the output format:

- HTML is using entity *em space*
- Word - a Word 'tab' element
- PowerPoint - a PowerPoint 'tab' element
- latex - tag `"\quad "`

flextable parts

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

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

qflextable

`qflextable` is a convenient tool to produce quickly a flextable for reporting where layout is fixed (see `set_table_properties()`) and columns widths are adjusted with `autofit()`.

See Also

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

Examples

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

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

Description

Returns the width, height and aspect ratio of a flextable in a named list. The 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_to_rmd	<i>flextable raw code</i>
------------------	---------------------------

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.keepnext = opts_current$get("ft.keepnext"),
  ft.tabcolsep = opts_current$get("ft.tabcolsep"),
  ft.arraystretch = opts_current$get("ft.arraystretch"),
  ft.latex.float = mcoalesce_options(opts_current$get("ft.latex.float"),
  opts_current$get("ft-latex-float")),
  ft.left = opts_current$get("ft.left"),
  ft.top = opts_current$get("ft.top"),
  text_after = "",
  webshot = opts_current$get("webshot"),
  ft.htmlscroll = opts_current$get("ft.htmlscroll"),
  ft.shadow = opts_current$get("ft.shadow"),
  bookdown = FALSE,
  quarto = FALSE,
  pandoc2 = TRUE,
  print = TRUE,
  ...
)

```

Arguments

<code>x</code>	a flextable object
<code>ft.align</code>	flextable alignment, supported values are 'left', 'center' and 'right'.
<code>ft.split</code>	Word option 'Allow row to break across pages' can be activated when TRUE.
<code>ft.keepnext</code>	default FALSE. Word option 'keep rows together' is activated when TRUE. It avoids page break within tables. This is handy for small tables, i.e. less than a page height. Be careful, if you print long tables, you should rather set its value to FALSE to avoid that the tables also generate a page break before being placed in the Word document. Since Word will try to keep it with the next paragraphs that follow the tables .
<code>ft.tabcolsep</code>	space between the text and the left/right border of its containing cell, the default value is 0 points.
<code>ft.arraystretch</code>	height of each row relative to its default height, the default value is 1.5.
<code>ft.latex.float</code>	type of floating placement in the document, one of: <ul style="list-style-type: none"> 'none' (the default value), table is placed after the preceding paragraph. 'float', table can float to a place in the text where it fits best 'wrap-r', wrap text around the table positioned to the right side of the text 'wrap-l', wrap text around the table positioned to the left side of the text 'wrap-i', wrap text around the table positioned inside edge-near the binding

- 'wrap-o', wrap text around the table positioned outside edge-far from the binding

<code>ft.left, ft.top</code>	Position should be defined with options <code>ft.left</code> and <code>ft.top</code> . These are the top left coordinates in inches of the placeholder that will contain the table. Their default values are 1 and 2 inches.
<code>text_after</code>	The string you put here will be added after printing the content of the flextable. For example, you can put <code>"\\pagebreak"</code> here to have tables produced with page breaks.
<code>websiteshot</code>	websiteshot package as a scalar character, one of "websiteshot" or "websiteshot2".
<code>ft.htmlscroll</code>	TRUE or FALSE (default) to enable horizontal scrolling.
<code>ft.shadow</code>	TRUE (default) or FALSE to use shadow dom (for HTML only), this option is existing to disable shadow dom (set to FALSE) for pagedown and Quarto that can not support it for now.
<code>bookdown</code>	TRUE or FALSE (default) to support cross referencing with bookdown.
<code>quarto</code>	TRUE or FALSE (default) to indicate the source document is a 'Quarto' file (ending with *.qmd).
<code>pandoc2</code>	TRUE (default) or FALSE to get the string in a pandoc raw HTML attribute (only valid when pandoc version is >= 2).
<code>print</code>	print output if TRUE
<code>...</code>	unused arguments

See Also

Other flextable print function: [as_raster\(\)](#), [df_printer\(\)](#), [gen_grob\(\)](#), [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")
}
```

fmt_2stats	<i>format content for data generated with summarizor()</i>
------------	--

Description

This function was written to allow easy demonstrations of flextable's ability to produce table summaries (with `summarizor()`). It assumes that we have either a quantitative variable, in which case we will display the mean and the standard deviation, or a qualitative variable, in which case we will display the count and the percentage corresponding to each modality.

Usage

```
fmt_2stats(  
  stat,  
  num1,  
  num2,  
  cts,  
  pcts,  
  num1_mask = "%.01f",  
  num2_mask = "(%.01f)",  
  cts_mask = "%.0f",  
  pcts_mask = "(%.02f%)"  
)
```

```
fmt_summarizor(  
  stat,  
  num1,  
  num2,  
  cts,  
  pcts,  
  num1_mask = "%.01f",  
  num2_mask = "(%.01f)",  
  cts_mask = "%.0f",  
  pcts_mask = "(%.02f%)"  
)
```

Arguments

stat	a character column containing the name of statistics
num1	a numeric statistic to display such as a mean or a median
num2	a numeric statistic to display such as a standard deviation or a median absolute deviation.
cts	a count to display
pcts	a percentage to display
num1_mask	format associated with num1, a format string used by <code>sprintf()</code> .

num2_mask format associated with num2, a format string used by `sprintf()`.
 cts_mask format associated with cts, a format string used by `sprintf()`.
 pcts_mask format associated with pcts, a format string used by `sprintf()`.

See Also

`summarizor()`, `tabulator()`, `mk_par()`

Other text formatter functions: `fmt_avg_dev()`, `fmt_header_n()`, `fmt_n_percent()`

Examples

```
library(flextable)
z <- summarizor(iris, by = "Species")

tab_1 <- tabulator(
  x = z,
  rows = c("variable", "stat"),
  columns = "Species",
  blah = as_paragraph(
    as_chunk(
      fmt_summarizor(
        stat = stat,
        num1 = value1, num2 = value2,
        cts = cts, pcts = percent
      )
    )
  )
)

ft_1 <- as_flextable(x = tab_1, separate_with = "variable")
ft_1 <- labelizor(
  x = ft_1, j = "stat",
  labels = c(mean_sd = "Moyenne (ecart-type)",
             median_iqr = "Mediane (IQR)",
             range = "Etendue",
             missing = "Valeurs manquantes"
  )
)
ft_1 <- autofit(ft_1)
ft_1
```

fmt_avg_dev

format content for mean and sd

Description

The function formats means and standard deviations as mean (sd).

Usage

```
fmt_avg_dev(avg, dev, digit1 = 1, digit2 = 1)
```

Arguments

avg, dev mean and sd values
digit1, digit2 number of digits to show when printing 'mean' and 'sd'.

See Also

[tabulator\(\)](#), [mk_par\(\)](#)

Other text formatter functions: [fmt_2stats\(\)](#), [fmt_header_n\(\)](#), [fmt_n_percent\(\)](#)

Examples

```
library(flextable)

df <- data.frame(avg = 1:3*3, sd = 1:3)

ft_1 <- flextable(df, col_keys = "avg")
ft_1 <- mk_par(
  x = ft_1, j = 1, part = "body",
  value = as_paragraph(fmt_avg_dev(avg = avg, dev = sd)))
ft_1 <- autofit(ft_1)
ft_1
```

fmt_header_n	<i>format count data for headers</i>
--------------	--------------------------------------

Description

The function formats counts as $\backslash n(N=XX)$. This helper function is used to add counts in columns titles.

Usage

```
fmt_header_n(n)
```

Arguments

n count values

See Also

[tabulator\(\)](#), [mk_par\(\)](#)

Other text formatter functions: [fmt_2stats\(\)](#), [fmt_avg_dev\(\)](#), [fmt_n_percent\(\)](#)

Examples

```
library(flextable)

df <- data.frame(zz = 1)

ft_1 <- flextable(df)
ft_1 <- append_chunks(
  x = ft_1, j = 1, part = "header",
  value = as_chunk(fmt_header_n(200)))
ft_1 <- autofit(ft_1)
ft_1
```

fmt_n_percent	<i>format content for count data</i>
---------------	--------------------------------------

Description

The function formats counts and percentages as n (xx.x%). If percentages are missing, they are not printed.

Usage

```
fmt_n_percent(n, pct, digit = 1)
```

Arguments

n	count values
pct	percent values
digit	number of digits for the percentages

See Also

[tabulator\(\)](#), [mk_par\(\)](#)

Other text formatter functions: [fmt_2stats\(\)](#), [fmt_avg_dev\(\)](#), [fmt_header_n\(\)](#)

Examples

```
library(flextable)

df <- structure(
  list(
    cut = structure(
      .Data = 1:5, levels = c(
        "Fair", "Good", "Very Good", "Premium", "Ideal"),
      class = c("ordered", "factor")),
    n = c(1610L, 4906L, 12082L, 13791L, 21551L),
    pct = c(0.0299, 0.0909, 0.2239, 0.2557, 0.3995)
  ),
```



```

row.names = c(NA, -5L),
class = "data.frame")

ft_1 <- flextable(df, col_keys = c("cut", "txt"))
ft_1 <- mk_par(
  x = ft_1, j = "txt",
  value = as_paragraph(fmt_n_percent(n, pct)))
ft_1 <- align(ft_1, j = "txt", part = "all", align = "right")
ft_1 <- autofit(ft_1)
ft_1

```

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,
  hans.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.
hans.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("gdttools")
fontname <- "Brush Script MT"

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

fontsize

Set font size

Description

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

Usage

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

Arguments

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

Illustrations

See Also

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

The function let add footnotes to a flextable object by adding some symbols in the flextable and associated notes in the footer of the flextable.

Symbols are added to the cells designated by the selection *i* and *j*. If you use *i* = `c(1,3)` and *j* = `c(2,5)`, then you will add the symbols (or the repeated symbol) to cells [1,2] and [3,5].

Usage

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

Arguments

<code>x</code>	a flextable object
<code>i, j</code>	cellwise rows and columns selection
<code>value</code>	a call to function <code>as_paragraph()</code> .
<code>ref_symbols</code>	character value, symbols to append that will be used as references to notes.
<code>part</code>	partname of the table (one of 'body', 'header', 'footer')
<code>inline</code>	whether to add footnote on same line as previous footnote or not
<code>sep</code>	used only when <code>inline = TRUE</code> , 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

ft_3 <- flextable(head(iris))
ft_3 <- autofit(ft_3)
ft_3 <- footnote(
  x = ft_3, i = 1:3, j = 1:3,
  ref_symbols = "a",
  value = as_paragraph("This is footnote one")
)
ft_3

```

fp_border_default *Border formatting properties*

Description

Create a `fp_border()` object that uses default 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

```
library(flextable)

set_flextable_defaults(
  border.color = "orange")

z <- flextable(head(cars))
z <- theme_vanilla(z)
z <- vline(
  z, j = 1, part = "all",
  border = officer::fp_border())
z <- vline(
  z, j = 2, part = "all",
  border = fp_border_default())
z

init_flextable_defaults()
```

fp_text_default

Text formatting properties

Description

Create a [fp_text\(\)](#) object that uses default values defined in the flextable it applies to.

[fp_text_default\(\)](#) is a handy function that will allow you to specify certain formatting values to be applied to a piece of text, the formatting values that are not specified will simply be the existing formatting values.

For example, if you set the text in the cell to red previously, using the code [fp_text_default\(bold = TRUE\)](#), the formatting will be 'bold' but it will also be 'red'.

On the other hand, the [fp_text\(\)](#) function forces you to specify all the parameters, so we strongly recommend working with [fp_text_default\(\)](#) which was created to replace the use of the former.

See also [set_flextable_defaults\(\)](#) to modify flextable defaults formatting properties.

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,
  hanshi.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.
hanshi.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\(\)](#), [compose\(\)](#), [append_chunks\(\)](#), [prepend_chunks\(\)](#)

Other functions for defining formatting properties: [fp_border_default\(\)](#)

Examples

```

library(flextable)

set_flextable_defaults(
  font.size = 11, font.color = "#303030",
  padding = 3, table.layout = "autofit")
z <- flextable(head(cars))

z <- compose(
  x = z,
  i = ~ speed < 6,
  j = "speed",
  value = as_paragraph(
    as_chunk("slow... ", props = fp_text_default(color = "red")),
    as_chunk(speed, props = fp_text_default(italic = TRUE))
  )
)
z

init_flextable_defaults()

```

`gen_grob`*Convert a flextable to a grid grob object*

Description

It uses Grid Graphics (package `grid`) to Convert a flextable into a grob object with scaling and text wrapping capabilities.

This method can be used to insert a flextable inside a `ggplot2` plot, it can also be used with package 'patchwork' or 'cowplot' to combine ggplots and flextables into the same graphic.

User can vary the size of the elements according to the size of the graphic window. The text behavior is controllable, user can decide to make the paragraphs (texts and images) distribute themselves correctly in the available space of the cell. It is possible to define resizing options, for example by using only the width, or by distributing the content so that it occupies the whole graphic space. It is also possible to freeze or not the size of the columns.

It is not recommended to use this function for large tables because the calculations can be long.

Limitations: equations (see `as_equation()`) and hyperlinks (see `hyperlink_ftext()`) will not be displayed.

Usage

```

gen_grob(
  x,
  ...,
  fit = c("auto", "width", "fixed"),
  scaling = c("min", "full", "fixed"),

```



```

    wrapping = TRUE,
    autowidths = TRUE,
    just = NULL
)

```

Arguments

x	A flextable object
...	Reserved for extra arguments
fit	Determines the fitting/scaling of the grob on its parent viewport. One of auto, width, fixed, TRUE, FALSE: <ul style="list-style-type: none"> • auto or TRUE (default): The grob is resized to fit in the parent viewport. The table row heights and column widths are resized proportionally. • width: The grob is resized horizontally to fit the width of the parent viewport. The column widths are resized proportionally. The row heights are unaffected and the table height may be smaller or larger than the height of the parent viewport. • fixed or FALSE: The grob will have fixed dimensions, as determined by the column widths and the row heights.
scaling	Determines the scaling of the table contents. One of min, full, fixed, TRUE, FALSE: <ul style="list-style-type: none"> • min or TRUE (default): When the parent viewport is smaller than the necessary, the various content sizes (text font size, line width and image dimensions) will decrease accordingly so that the content can still fit. When the parent viewport is larger than the necessary, the content sizes will remain the same, they will not increase. • full: Same as min, except that the content sizes are scaled fully, they will increase or decrease, according to the size of the drawing surface. • fixed or FALSE: The content sizes will not be scaled.
wrapping	Determines the soft wrapping (line breaking) method for the table cell contents. One of TRUE, FALSE: <ul style="list-style-type: none"> • TRUE: Text content may wrap into separate lines at normal word break points (such as a space or tab character between two words) or at newline characters anywhere in the text content. If a word does not fit in the available cell width, then the text content may wrap at any character. Non-text content (such as images) is also wrapped into new lines, according to the available cell width. • FALSE: Text content may wrap only with a newline character. Non-text content is not wrapped. <p>Superscript and subscript chunks do not wrap. Newline and tab characters are removed from these chunk types.</p>
autowidths	If TRUE (default) the column widths are adjusted in order to fit the contents of the cells (taking into account the wrapping setting).
just	Justification of viewport layout, same as just argument in <code>grid::grid.layout()</code> . When set to NULL (default), it is determined according to the fit argument.

Value

a grob (gTree) object made with package grid

size

The size of the flextable can be known by using the method `dim` on the grob.

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()`, `save_as_pptx()`

Examples

```
ft <- flextable(head(mtcars))
ft <- autofit(ft)
gr <- gen_grob(ft)
if (interactive()) plot(gr)

# get the size
dims <- dim(gr)
dims
# svglite::svglite(filename = "hello-grid-graphics.svg",
#   width = dims$width + .1,
#   height = dims$height + .1)
# gr <- gen_grob(ft, scaling = "fixed", fit = "fixed", just = "center")
# plot(gr)
# dev.off()
```

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_apa\(\)](#), [theme_booktabs\(\)](#), [theme_box\(\)](#), [theme_tron_legacy\(\)](#), [theme_tron\(\)](#), [theme_vader\(\)](#), [theme_vanilla\(\)](#), [theme_zebra\(\)](#)

Examples

```
get_flextable_defaults()
```

 gg_chunk

ggplots chunk wrapper

Description

This function is used to insert mini gg plots into flextable with functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#).

Usage

```
gg_chunk(value, width = 1, height = 0.2, unit = "in", res = 300)
```

Arguments

value	gg objects, stored in a list column; or a list of 'ggplot' objects.
width, height	size of the resulting png file.
unit	unit for width and height, one of "in", "cm", "mm".
res	resolution of the png image in ppi

Illustrations**Note**

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting to PowerPoint format.

See Also

Other chunk elements for paragraph: [as_bracket\(\)](#), [as_b\(\)](#), [as_chunk\(\)](#), [as_equation\(\)](#), [as_highlight\(\)](#), [as_image\(\)](#), [as_i\(\)](#), [as_sub\(\)](#), [as_sup\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [grid_chunk\(\)](#), [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
}

```

grid_chunk

'Grid Graphics' chunk wrapper

Description

This function is used to insert grid objects into flextable with functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#).

Usage

```
grid_chunk(value, width = 1, height = 0.2, unit = "in", res = 300)
```

Arguments

value	grid objects, stored in a list column; or a list of grid objects.
width, height	size of the resulting png file
unit	unit for width and height, one of "in", "cm", "mm".
res	resolution of the png image in ppi

Note

This chunk option requires package `officedown` in a R Markdown context with Word output format. PowerPoint cannot mix images and text in a paragraph, images are removed when outputting to PowerPoint format.

See Also

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

Examples

```
library(flextable)
ft_1 <- flextable(head(cars))
if(require("grid")){
  ft_1 <- prepend_chunks(
    x = ft_1, i = 2, j = 2,
    grid_chunk(
      list(
        grid.circle(gp = gpar(fill="#ec11c2",
          col = "transparent")),
        width = .15, height = .15)
      )
    )
  }
ft_1
```

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

<code>x</code>	an rdocx object
<code>bookmark</code>	bookmark id
<code>value</code>	a flextable object

height	<i>Set flextable rows height</i>
--------	----------------------------------

Description

control rows height for a part of the flextable when the line height adjustment is "atleast" or "exact" (see [hrule\(\)](#)).

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	<i>Text highlight color</i>
-----------	-----------------------------

Description

Change text highlight color of selected rows and columns of a flextable. A function can be used instead of fixed colors.

When `color` is a function, it is possible to color cells based on values located in other columns, using hidden columns (those not used by argument `colkeys`) is a common use case. The argument `source` has to be used to define what are the columns to be used for the color definition and the argument `j` has to be used to define where to apply the colors and only accept values from `colkeys`.

Usage

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

Arguments

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

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
```

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

Description

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

Usage

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

Arguments

<code>x</code>	a flextable object
<code>i</code>	rows selection
<code>j</code>	columns selection
<code>border</code>	border properties defined by a call to fp_border()
<code>part</code>	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	<i>set bottom horizontal border</i>
--------------	-------------------------------------

Description

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

Usage

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

Arguments

x	a flextable object
j	columns selection
border	border 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	<i>set top horizontal border</i>
-----------	----------------------------------

Description

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

Usage

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

Arguments

x	a flextable object
j	columns selection
border	border 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	<i>Set flexible rule for rows heights</i>
-------	---

Description

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

For PDF see the `ft.arraystretch` chunk option.

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	<i>flextable as an HTML object</i>
-----------------	------------------------------------

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 = NULL, ft.shadow = NULL)
```

Arguments

<code>x</code>	a flextable object
<code>ft.align</code>	flextable alignment, supported values are 'left', 'center' and 'right'.
<code>ft.shadow</code>	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()`, `gen_grob()`, `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	<i>Chunk of text with hyperlink</i>
----------------	-------------------------------------

Description

The function lets add hyperlinks within flextable objects.

It is used to add it to the content of a cell of the flextable with the functions `compose()`, `append_chunks()` or `prepend_chunks()`.

URL are not encoded, they are preserved 'as is'.

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 <code>formatter</code> .
props	an <code>fp_text_default()</code> or <code>officer::fp_text()</code> 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 <code>formatter</code> 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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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.

R Markdown outputs can be :

- HTML
- 'Microsoft Word'
- 'Microsoft PowerPoint'
- PDF

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.

For Word, it's recommended to work with package 'officetext' that supports all features of flextable.

Usage

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

Arguments

```
x          a flextable object
...        arguments passed to flextable\_to\_rmd\(\).
```

Chunk options

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

chunk option	property
ft.align	flextable alignment, supported values are 'left', 'center' and 'right'
ft.shadow	HTML option, disable shadow dom (set to FALSE) for pagedown.
ft.split	Word option 'Allow row to break across pages' can be activated when TRUE.
ft.keepnext	Word option 'keep rows together' can be desactivated when FALSE
ft.tabcolsep	space between the text and the left/right border of its containing cell
ft.arraystretch	height of each row relative to its default height
ft.latex.float	type of floating placement in the document, one of 'none', 'float', 'wrap-r', 'wrap-l', 'wrap-i', 'wrap-o'
ft.left	left coordinates in inches
ft.top	top coordinates in inches

If some values are to be used all the time in the same document, it is recommended to set these values in a 'knitr r chunk' by using function `knitr::opts_chunk$set(ft.split=FALSE, ft.keepnext = FALSE, ...)`.

See [flextable_to_rmd\(\)](#) for more details about these options.

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`. Note that in a bookdown and when not using `officedown::rdocx_document()`, the usual numbering feature of bookdown is used.

```
tab.id='my_id'.
```

Some options are available to customise captions for any output:

label	name	value
Word stylename to use for table captions.	tab.cap.style	NULL
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 when `officedown::rdocx_document()` is used is coming with more options such as ability to choose the prefix for numbering chunk for example. The table below expose these options:

label	name	value
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.

It is recommended to set these values in a 'knitr r chunk' so that they are permanent all along the document: `knitr::opts_chunk$set(ft.tabcolsep=0, ft.latex.float = "none")`.

Background color and merged cells does not work well together with PDF format. Authors are hoping to fix this issue in the future.

See [add_latex_dep\(\)](#) if caching flextable results in 'R Markdown' documents.

PowerPoint output

Auto-adjust Layout is not available for PowerPoint, PowerPoint only support fixed layout. It's then often necessary to call function [autofit\(\)](#) so that the columns' widths are adjusted if user does not provide the withs.

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\(\)](#), [gen_grob\(\)](#), [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))

```

labelizor

change displayed labels

Description

The function replace text values in a flextable with labels. The labels are defined with character named vector.

The function is not written to be fast but to be handy. It does not replace the values in the underlying dataset but replace the defined content in the flextable (as defined with [compose\(\)](#)).

Usage

```
labelizor(x, j = NULL, labels, part = "all")
```

Arguments

x	a flextable object
j	columns selection
labels	a named vector whose names will be used to identify values to replace and values will be used as labels.
part	partname of the table (one of 'all', 'body', 'header', 'footer')

See Also

[mk_par\(\)](#), [append_chunks\(\)](#), [prepend_chunks\(\)](#)

Examples

```
z <- summarizor(  
  x = CO2[-c(1, 4)],  
  by = "Treatment",  
  overall_label = "Overall")  
  
ft_1 <- as_flextable(z, separate_with = "variable")  
  
ft_1 <- labelizor(  
  x = ft_1, j = c("stat"),  
  labels = c(Missing = "Kouign amann")  
)  
  
ft_1 <- labelizor(  
  x = ft_1, j = c("variable"),  
  labels = toupper  
)  
  
ft_1
```

linrange

mini linrange chunk wrapper

Description

This function is used to insert linranges into flextable with functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#).

Usage

```
linrange(  
  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 outputting 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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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")
```

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')

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 functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#).

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 outputting 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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_chunk\(\)](#), [hyperlink_text\(\)](#), [linrange\(\)](#), [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	<i>Merge flextable cells horizontally</i>
---------	---

Description

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

Usage

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

Arguments

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

See Also

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

Examples

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

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

Description

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

Usage

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

Arguments

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

Illustrations**See Also**

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

Examples

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

merge_none

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 original dataset can also be used.
target	columns names where cells have to be merged.
part	partname of the table where merge has to be done.
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 = "srd_r_id",
  target = c("srd_r_id", "substances"))
ft_2

```

minibar

mini barplots chunk wrapper

Description

This function is used to insert bars into flextable with functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#).

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 outputting 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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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

```
nrow_part(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 <- qflexible(head(cars))
nrow_part(ft)
```

nrow_part	<i>Number of rows of a part</i>
-----------	---------------------------------

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

Examples

```
library(flextable)
ft <- qflexible(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 <code>officer::ph_location_type()</code> 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

plots a flextable, either as a grid grob object or as a raster image and display the result in a new graphics window.

Usage

```
## S3 method for class 'flextable'  
plot(x, method = c("grob", "webshot"), ...)
```

Arguments

x	a flextable object
method	the method to use for the plot, one of grob or webshot
...	additional arguments passed to gen_grob() if method is 'grob' and passed to as_raster() if method is 'webshot'.

Details

- method grob, uses method [gen_grob\(\)](#) to convert the flextable into a grid graphics grob object.
- method webshot, uses method [as_raster\(\)](#) to convert the flextable into a raster object. In that case packages webshot and magick are required.

See Also

Other flextable print function: [as_raster\(\)](#), [df_printer\(\)](#), [flextable_to_rmd\(\)](#), [gen_grob\(\)](#), [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:  
plot(ftab)  
if (require("webshot")) {  
  plot(ftab, method = "webshot")  
}  
  
## End(Not run)
```

plot.flextableGrob *plot a flextable grob*

Description

plot a flextable grob

Usage

```
## S3 method for class 'flextableGrob'  
plot(x, ...)
```

Arguments

x a flextableGrob object
... additional arguments passed to other functions

plot_chunk *mini plots chunk wrapper*

Description

This function is used to insert mini plots into flextable with functions:

- [compose\(\)](#) and [as_paragraph\(\)](#),
- [append_chunks\(\)](#),
- [prepend_chunks\(\)](#).

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 outputting 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\(\)](#), [as_word_field\(\)](#), [colorize\(\)](#), [gg_chunk\(\)](#), [grid_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)
```

```
prepend_chunks      prepend chunks to flextable content
```

Description

prepend chunks (for example chunk [as_chunk\(\)](#)) in a flextable.

Usage

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

Arguments

x	a flextable object
...	chunks to be prepended, see as_chunk() , gg_chunk() and other chunk elements for paragraph.
i	rows selection
j	column selection
part	partname of the table (one of 'body', 'header', 'footer')

See Also

Other functions for mixed content paragraphs: [append_chunks\(\)](#), [as_paragraph\(\)](#), [compose\(\)](#)

Examples

```
x <- flextable(head(iris))
x <- prepend_chunks(
  x,
  i = 1, j = 1,
  colorize(as_b("Hello "), color = "red"),
  colorize(as_i("World"), color = "magenta")
)
x
```

```
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", align = "center", ...)
```

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.
align	left, center (default) or right. Only for docx/html/pdf.
...	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\(\)](#), [gen_grob\(\)](#), [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	character column names for row
col	character column names for column
main	character title
include.row_percent	boolean whether to include the row percents; defaults to TRUE
include.column_percent	boolean whether to include the column percents; defaults to TRUE
include.table_percent	boolean whether to include the table percents; defaults to TRUE
include.column_total	boolean whether to include the row of column totals; defaults to TRUE
include.row_total	boolean whether to include the column of row totals; defaults to TRUE
include.header_row	boolean whether to include the header row; defaults to TRUE
weight	character column name for weight

Author(s)

Titouan Robert

Examples

```

proc_freq(mtcars, "vs", "gear")
proc_freq(mtcars, "gear", "vs", weight = "wt")

```

Description

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. The function change cell text direction. By default, it is "lrbt" which mean from left to right and top to bottom.

'Word' and 'PowerPoint' don't handle auto height with rotated headers. So you need to set header heights (with function [height\(\)](#)) and set rule "exact" for rows heights (with function [hrule\(\)](#)) otherwise Word and PowerPoint outputs will have small height not corresponding to the necessary height to display the text.

flextable doesn't do the rotation by any angle. It only rotates by a number of right angles. This choice is made to ensure the same rendering between Word, PowerPoint (limited to angles 0, 270 and 90) HTML and PDF.

Usage

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

Arguments

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

Details

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_1 <- flextable(head(iris))

ft_1 <- rotate(ft_1, j = 1:4, align = "bottom", rotation = "tbrl", part = "header")
ft_1 <- rotate(ft_1, j = 5, align = "bottom", rotation = "btlr", part = "header")
```

```

# if output is docx or pptx, think about (1) set header heights
# and (2) set rule "exact" for rows heights because Word
# and PowerPoint don't handle auto height with rotated headers
ft_1 <- height(ft_1, height = 1.2, part = "header")
ft_1 <- hrule(ft_1, i = 1, rule = "exact", part = "header")

ft_1

dat <- data.frame(
  a = c("left-top", "left-middle", "left-bottom"),
  b = c("center-top", "center-middle", "center-bottom"),
  c = c("right-top", "right-middle", "right-bottom")
)

ft_2 <- flextable(dat)
ft_2 <- theme_box(ft_2)
ft_2 <- height_all(x = ft_2, height = 1.3, part = "body")
ft_2 <- hrule(ft_2, rule = "exact")
ft_2 <- rotate(ft_2, rotation = "tbr1")
ft_2 <- width(ft_2, width = 1.3)

ft_2 <- align(ft_2, j = 1, align = "left")
ft_2 <- align(ft_2, j = 2, align = "center")
ft_2 <- align(ft_2, j = 3, align = "right")

ft_2 <- valign(ft_2, i = 1, valign = "top")
ft_2 <- valign(ft_2, i = 2, valign = "center")
ft_2 <- valign(ft_2, i = 3, valign = "bottom")

ft_2

```

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, align = "center")
```

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.
align	left, center (default) or right.

See Also

Other flextable print function: [as_raster\(\)](#), [df_printer\(\)](#), [flextable_to_rmd\(\)](#), [gen_grob\(\)](#), [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 recommended 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\(\)](#), [gen_grob\(\)](#), [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 preferred** as 'webshot' can have issues with some properties (i.e. bold are not rendered for some users).

The image is coming from a screenshot of the 'HTML' output. `save_as_image()` is a tool to make life easier for users. Nevertheless, the features have some limitations that can't be solved with `flextable` because they are not related to `flextable`:

- `png` does support transparency,
- `jpeg` does not support transparency,
- `webshot2` does not allow transparent background,
- `webshot` does allow transparent background.

Usage

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

Arguments

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

Note

This function requires package `webshot` or `webshot2`. The screenshot process is rather slow because it is managed by an external program (see `webshot` or `webshot2` documentation).

See Also

Other `flextable` print function: [as_raster\(\)](#), [df_printer\(\)](#), [flextable_to_rmd\(\)](#), [gen_grob\(\)](#), [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.

This feature is available to simplify the work of users by avoiding the need to use the 'officer' package. If it doesn't suit your needs, then use the API offered by 'officer' which allows simple and complicated things.

Usage

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

Arguments

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

Note

The PowerPoint format ignores captions (see [set_caption\(\)](#)).

See Also

Other flextable print function: [as_raster\(\)](#), [df_printer\(\)](#), [flextable_to_rmd\(\)](#), [gen_grob\(\)](#), [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)
```

separate_header	<i>Separate collapsed colnames into multiple rows</i>
-----------------	---

Description

If your variable names contain multiple delimited labels, they will be separated and placed in their own rows.

Usage

```
separate_header(
  x,
  opts = c("span-top", "center-hspan", "bottom-vspan", "default-theme"),
  split = "[_\\.]",
  fixed = FALSE
)
```

Arguments

x	a flextable object
opts	optional treatments to apply to the resulting header part as a character vector with multiple supported values. The supported values are: <ul style="list-style-type: none"> • "span-top": span empty cells with the first non empty cell, this operation is made column by column. • "center-hspan": center the cells that are horizontally spanned. • "bottom-vspan": bottom align the cells treated when "span-top" is applied. • "default-theme": apply to the new header part the theme set in <code>set_flextable_defaults(theme_f = ...)</code>.
split	a regular expression (unless <code>fixed = TRUE</code>) to use for splitting.
fixed	logical. If <code>TRUE</code> match <code>split</code> exactly, otherwise use regular expressions.

See Also

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [set_header_footer_df](#), [set_header_labels\(\)](#)

Examples

```
library(flextable)

x <- data.frame(
  Species = as.factor(c("setosa", "versicolor", "virginica")),
  Sepal.Length_mean = c(5.006, 5.936, 6.588),
  Sepal.Length_sd = c(0.35249, 0.51617, 0.63588),
```

```

    Sepal.Width_mean = c(3.428, 2.77, 2.974),
    Sepal.Width_sd = c(0.37906, 0.3138, 0.3225),
    Petal.Length_mean = c(1.462, 4.26, 5.552),
    Petal.Length_sd = c(0.17366, 0.46991, 0.55189),
    Petal.Width_mean = c(0.246, 1.326, 2.026),
    Petal.Width_sd = c(0.10539, 0.19775, 0.27465)
  )

ft_1 <- flextable(x)
ft_1 <- colformat_double(ft_1, digits = 2)
ft_1 <- theme_box(ft_1)
ft_1 <- separate_header(
  x = ft_1,
  opts = c("span-top", "bottom-vspan")
)
ft_1

```

set_caption

Set Caption

Description

Set caption value in a flextable. The function can also be used to define formattings that will be applied if possible to Word and HTML outputs.

- 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. PowerPoint documents are not structured and do not behave as HTML documents and paginated documents (word, pdf), and it's not possible to know where we should create a shape to contain the caption (technically it can't be in the PowerPoint shape containing the table).

When working with 'R Markdown' or 'Quarto', the caption settings defined with `set_caption()` will be prioritized over knitr chunk options.

Caption value can be a single string or the result to a call to `as_paragraph()`. With the latter, the caption is made of formatted chunks whereas with the former, caption will not be associated with any formatting.

Usage

```

set_caption(
  x,
  caption = NULL,
  autonum = NULL,
  word_stylename = "Table Caption",
  style = word_stylename,
  fp_p = NULL,
  align_with_table = TRUE,

```

```

    html_classes = NULL,
    html_escape = TRUE
  )

```

Arguments

x	flextable object
caption	caption value. The caption can be either a string either a call to <code>as_paragraph()</code> . In the latter case, users are free to format the caption with colors, italic fonts, also mixed with images or equations. Note that Quarto does not allow the use of this feature. Caption as a string does not support 'Markdown' syntax. If you want to add a bold text in the caption, use <code>as_paragraph('a ', as_b('bold'), ' text')</code> when providing caption.
autonum	an autonum representation. See <code>officer::run_autonum()</code> . This has an effect only when the output is "Word" (in which case the object is used to define the Word auto-numbering), "html" and "pdf" (in which case only the bookmark identifier will be used). If used, the caption is preceded by an auto-number sequence.
word_stylename, style	'Word' style name to associate with caption paragraph. These names are available with function <code>officer::styles_info()</code> when output is Word. Argument style is deprecated in favor of word_stylename. If the caption is defined with <code>as_paragraph()</code> , some of the formatings of the paragraph style will be replaced by the formatings associated with the chunks (such as the font).
fp_p	paragraph formatting properties associated with the caption, see <code>fp_par()</code> . It applies when possible, i.e. in HTML and 'Word' but not with bookdown.
align_with_table	if TRUE, caption is aligned as the flextable, if FALSE, fp_p will not be updated and alignment is as defined with fp_p. It applies when possible, i.e. in HTML and 'Word' but not with bookdown.
html_classes	css class(es) to apply to associate with caption paragraph when output is 'Word'.
html_escape	should HTML entities be escaped so that it can be safely included as text or an attribute value within an HTML document.

Details

The values defined by `set_caption()` will be preferred when possible, i.e. the caption ID, the associated paragraph style, etc. Why specify "where possible"? Because the principles differ from tool to tool. Here is what we have noticed and tried to respect (if you think we are wrong, let us know):

- Word and HTML documents made with 'rmarkdown', i.e. with `rmarkdown::word_document()` and `rmarkdown::html_document()` are not supposed to have numbered and cross-referenced captions.
- PDF documents made with 'rmarkdown' `rmarkdown::pdf_document()` automatically add numbers before the caption.

- Word and HTML documents made with 'bookdown' are supposed to have numbered and cross-referenced captions. This is achieved by 'bookdown' but for technical reasons, the caption must not be defined in an HTML or XML block. So with flextable we lose the ability to format the caption content; surprisingly this is not the case with PDF.
- HTML and PDF documents created with Quarto will manage captions and cross-references differently; Quarto will replace captions with `tbl-cap` and `label` values.
- Word documents made with Quarto are another specific case, Quarto does not inject captions from the `tbl-cap` and `label` values. This is a temporary situation that should evolve later. flextable' will evolve according to the evolution of Quarto.

Using `body_add_flextable()` enable all options specified with `set_caption()`.

R Markdown

flextable captions can be defined from R Markdown documents by using `knitr::opts_chunk$set()`. User don't always have to call `set_caption()` to set a caption, he can use knitr chunk options instead. A typical call would be:

```
```{r}
#| tab.id: bookmark_id
#| tab.cap: caption text
flextable(head(cars))
```
```

`tab.id` is the caption id or bookmark, `tab.cap` is the caption text. There are many options that can replace `set_caption()` features. The following knitr chunk options are available:

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

See [knit_print.flextable](#) for more details.

Formatting the caption

You can build your caption with `as_paragraph()`. This is recommended if your captions need complex content. The caption is build with a paragraph made of chunks (for example, a red bold text + Arial italic text).

The user will then have the ability to format text and to add images and equations. If no format

is specified (using "a string" or `as_chunk("a string")`), `fp_text_default()` is used to define font settings (font family, bold, italic, color, etc...). The default values can be changed with `set_flextable_defaults()`. It is recommended to explicitly use `as_chunk()`.

The counterpart is that the style properties of the caption will not take precedence over those of the formatted elements. You will have to specify the font to use:

```
ftab <- flextable(head(cars)) %>%
  set_caption(
    as_paragraph(
      as_chunk("caption", props = fp_text_default(font.family = "Cambria"))
    ), word_stylename = "Table Caption")
print(ftab, preview = "docx")
```

Using 'Quarto'

'Quarto' manage captions and cross-references instead of flextable. That's why `set_caption()` is not that useful in a 'Quarto' document except for Word documents where 'Quarto' does not manage captions yet (when output is raw xml which is the case for flextable).

knitr options are almost the same than those detailed in the R Markdown section (see upper), but be aware that 'Quarto' manage captions and it can be overwrite what has been defined by flextable. See Quarto documentation for more information.

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,  
  hansj.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,  
  shadow = NULL,  
  scroll = NULL,  
  split = NULL,  
  keep_with_next = NULL,  
  tabcolsep = NULL,  
  arraystretch = NULL,  
  float = 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, na_str, nan_str | formatC arguments used by colformat_num() , colformat_double() , and colformat_int() . |
| digits | formatC argument used by colformat_double() . |
| 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. |
| shadow | TRUE or FALSE, use shadow dom (for HTML only), this option is existing to disable shadow dom (set to FALSE) for pagedown and Quarto that can not support it for now. |
| scroll | NULL or a list if you want to add a scroll-box. See scroll element of argument <code>opts_html</code> in function set_table_properties() . |
| split | Word option 'Allow row to break across pages' can be activated when TRUE. |
| keep_with_next | Word option 'keep rows together' is activated when TRUE. It avoids page break within tables. This is handy for small tables, i.e. less than a page height. |
| tabcolsep | space between the text and the left/right border of its containing cell. |
| arraystretch | height of each row relative to its default height, the default value is 1.5. |
| float | type of floating placement in the PDF document, one of: <ul style="list-style-type: none"> 'none' (the default value), table is placed after the preceding paragraph. 'float', table can float to a place in the text where it fits best |

- 'wrap-r', wrap text around the table positioned to the right side of the text
 - 'wrap-l', wrap text around the table positioned to the left side of the text
 - 'wrap-i', wrap text around the table positioned inside edge-near the binding
 - 'wrap-o', wrap text around the table positioned outside edge-far from the binding
- 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_apa\(\)](#), [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 |

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\(\)](#)

Other cells formatters: [colformat_char\(\)](#), [colformat_datetime\(\)](#), [colformat_date\(\)](#), [colformat_double\(\)](#), [colformat_image\(\)](#), [colformat_int\(\)](#), [colformat_lgl\(\)](#), [colformat_num\(\)](#)

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

| | |
|----------------------|---|
| <code>x</code> | a flextable object |
| <code>mapping</code> | a data.frame specifying for each colname content of the column. |
| <code>key</code> | column to use as key when joining data_mapping. |

Illustrations**See Also**

Other functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_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 *Change headers labels*

Description

This function set labels for specified columns in the bottom 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 functions to add rows in a flextable: [add_body_row\(\)](#), [add_body\(\)](#), [add_footer_lines\(\)](#), [add_footer_row\(\)](#), [add_footer\(\)](#), [add_header_row\(\)](#), [add_header\(\)](#), [separate_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,
  align = "center",
  opts_html = list(),
  opts_word = list(),
  opts_pdf = list(),
  word_title = NULL,
  word_description = NULL
)

```

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. |
| align | alignment in document (only Word, HTML and PDF), supported values are 'left', 'center' and 'right'. |
| opts_html | html options as a list. Supported elements are: <ul style="list-style-type: none"> • 'shadow' TRUE or FALSE, use shadow dom, this option is existing to disable shadow dom (set to FALSE) for pagedown and Quarto that can not support it for now. • 'extra_css': extra css instructions to be integrated with the HTML code of the table. • 'scroll': NULL or a list if you want to add a scroll-box. <ul style="list-style-type: none"> – Use an empty list to add an horizontal scroll. The with is fixed, corresponding to the container's width. – If the list has a value named height it will be used as height and the scroll will happen also vertically. The height will be in pixel if numeric, if a string it should be a valid css measure. – If the list has a value named freeze_first_column set to TRUE, the first column is set as a <i>sticky</i> column. – If the list has a value named add_css it will be used as extra css to add, .i.e: border:1px solid red;. |
| opts_word | Word options as a list. Supported elements are: <ul style="list-style-type: none"> • 'split': Word option 'Allow row to break across pages' can be activated when TRUE. |

- 'keep_with_next': Word option 'keep rows together' is activated when TRUE. It avoids page break within tables. This is handy for small tables, i.e. less than a page height.
- opts_pdf PDF options as a list. Supported elements are:
- 'tabcolsep': space between the text and the left/right border of its containing cell.
 - 'arraystretch': height of each row relative to its default height, the default value is 1.5.
 - 'float': type of floating placement in the PDF document, one of:
 - 'none' (the default value), table is placed after the preceding paragraph.
 - 'float', table can float to a place in the text where it fits best
 - 'wrap-r', wrap text around the table positioned to the right side of the text
 - 'wrap-l', wrap text around the table positioned to the left side of the text
 - 'wrap-i', wrap text around the table positioned inside edge-near the binding
 - 'wrap-o', wrap text around the table positioned outside edge-far from the binding
 - '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.
 - 'default_line_color': default line color, restored globally after the flextable is produced.
- word_title alternative text for Word table (used as title of the table)
- word_description alternative text for Word table (used as description of the table)

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 <- flextable(head(cars))
ft_1 <- autofit(ft_1)
```

```

ft_2 <- set_table_properties(ft_1, width = .5, layout = "autofit")
ft_2
ft_3 <- set_table_properties(ft_1, width = 1, layout = "autofit")

# add scroll for HTML ----
set.seed(2)
dat <- lapply(1:14, function(x) rnorm(n = 20))
dat <- setNames(dat, paste0("colname", 1:14))
dat <- as.data.frame(dat)

ft_4 <- flextable(dat)
ft_4 <- colformat_double(ft_4)
ft_4 <- bg(ft_4, j = 1, bg = "#DDDDDD", part = "all")
ft_4 <- bg(ft_4, i = 1, bg = "#DDDDDD", part = "header")
ft_4 <- autofit(ft_4)
ft_4 <- set_table_properties(
  x = ft_4,
  opts_html = list(
    shadow = FALSE,
    scroll = list(
      height = "500px",
      freeze_first_column = TRUE
    )
  )
)
ft_4

```

shift_table

Create a shift table

Description

Create a shift table ready to be used with `tabulator()`.

The function is transforming a dataset representing some 'Laboratory Tests Results' structured as *CDISC clinical trial data sets* format to a dataset representing the shift table.

Shift tables are tables used in clinical trial analysis. They show the progression of change from the baseline, with the progression often being along time; the number of subjects is displayed in different range (e.g. low, normal, or high) at baseline and at selected time points or intervals.

Usage

```

shift_table(
  x,
  cn_visit = "VISIT",
  cn_visit_num = "VISITNUM",
  cn_grade = "LBNRIND",
  cn_usubjid = "USUBJID",
  cn_lab_cat = NA_character_,

```

```

  cn_is_baseline = "LBBLFL",
  baseline_identifier = "Y",
  cn_treatment = NA_character_,
  grade_levels = c("LOW", "NORMAL", "HIGH"),
  grade_labels = c("Low", "Normal", "High")
)

```

Arguments

| | |
|----------------------------------|---|
| <code>x</code> | Laboratory Tests Results data frame. |
| <code>cn_visit</code> | column name containing visit names, default to "VISIT". |
| <code>cn_visit_num</code> | column name containing visit numbers, default to "VISITNUM". |
| <code>cn_grade</code> | column name containing reference range indicators, default to "LBNRIND". |
| <code>cn_usubjid</code> | column name containing unique subject identifiers, default to "USUBJID". |
| <code>cn_lab_cat</code> | column name containing lab tests or examination names, default to "LBTEST". |
| <code>cn_is_baseline</code> | column name containing baseline flags, default to "LBBLFL". |
| <code>baseline_identifier</code> | baseline flag value to use for baseline identification. Its default is "Y". |
| <code>cn_treatment</code> | column name containing treatment names, default to NA. |
| <code>grade_levels</code> | levels to use for reference range indicators |
| <code>grade_labels</code> | labels to use for reference range indicators |

Value

the shift table as a data.frame. Additional elements are provided in attributes:

- "VISIT_N": count of unique subject id per visits, labs and eventually treatments. This element is supposed to be used as value for argument `hidden_data` of function `tabulator()`.
- "FUN_VISIT": a utility function to easily turn *visit* column as a factor column. It should be applied after the shift table creation.
- "FUN_GRADE": a utility function to easily turn *grade* column as a factor column. It adds "MISSING/Missing" and "SUM/Sum" at the end of the set of values specified in arguments `grade_levels` and `grade_labels`. It should be applied after the shift table creation.

Examples

```

library(data.table)
library(flextable)

# data simulation ----
USUBJID <- sprintf("01-ABC-%04.0f", 1:200)
VISITS <- c("SCREENING 1", "WEEK 2", "MONTH 3")
LBTEST <- c("Albumin", "Sodium")

VISITNUM <- seq_along(VISITS)
LBBLFL <- rep(NA_character_, length(VISITNUM))
LBBLFL[1] <- "Y"

```

```

VISIT <- data.frame(VISIT = VISITS, VISITNUM = VISITNUM,
  LBBLFL = LBBLFL, stringsAsFactors = FALSE)
labdata <- expand.grid(USUBJID = USUBJID, LBTEST = LBTEST,
  VISITNUM = VISITNUM,
  stringsAsFactors = FALSE)

setDT(labdata)

labdata <- merge(labdata, VISIT, by = "VISITNUM")

subject_elts <- unique(labdata[, .SD, .SDcols = "USUBJID"])
subject_elts <- unique(subject_elts)
subject_elts[, c("TREAT")] := list(
  sample(x = c("Treatment", "Placebo"), size = .N, replace = TRUE))
subject_elts[, c("TREAT")] := list(
  factor(.SD$TREAT, levels = c("Treatment", "Placebo")))
setDF(subject_elts)
labdata <- merge(labdata, subject_elts,
  by = "USUBJID", all.x = TRUE, all.y = FALSE)
labdata[, c("LBNRIND")] := list(
  sample(x = c("LOW", "NORMAL", "HIGH"), size = .N,
  replace = TRUE, prob = c(.03, .9, .07)))

setDF(labdata)

# shift table calculation ----

SHIFT_TABLE <- shift_table(
  x = labdata, cn_visit = "VISIT",
  cn_grade = "LBNRIND",
  cn_usubjid = "USUBJID",
  cn_lab_cat = "LBTEST",
  cn_treatment = "TREAT",
  cn_is_baseline = "LBBLFL",
  baseline_identifier = "Y",
  grade_levels = c("LOW", "NORMAL", "HIGH"))

# get attrs for post treatment ----
SHIFT_TABLE_VISIT <- attr(SHIFT_TABLE, "VISIT_N")
visit_as_factor <- attr(SHIFT_TABLE, "FUN_VISIT")
range_as_factor <- attr(SHIFT_TABLE, "FUN_GRADE")

# post treatments ----
SHIFT_TABLE$VISIT = visit_as_factor(SHIFT_TABLE$VISIT)
SHIFT_TABLE$BASELINE = range_as_factor(SHIFT_TABLE$BASELINE)
SHIFT_TABLE$LBNRIND = range_as_factor(SHIFT_TABLE$LBNRIND)

SHIFT_TABLE_VISIT$VISIT = visit_as_factor(SHIFT_TABLE_VISIT$VISIT)

# tabulator ----

```

```

my_format <- function(z) {
  formatC(z * 100, digits = 1, format = "f",
          flag = "0", width = 4)
}

tab <- tabulator(
  x = SHIFT_TABLE,
  hidden_data = SHIFT_TABLE_VISIT,
  row_compose = list(
    VISIT = as_paragraph(VISIT, "\n(N=", N_VISIT, ")")
  ),
  rows = c("LBTEST", "VISIT", "BASELINE"),
  columns = c("TREAT", "LBNRIND"),
  `n` = as_paragraph(N),
  `%` = as_paragraph(as_chunk(PCT, formatter = my_format))
)

# as_flextable ----

ft_1 <- as_flextable(
  x = tab, separate_with = "VISIT",
  label_rows = c(LBTEST = "Lab Test", VISIT = "Visit",
                 BASELINE = "Reference Range Indicator"))

ft_1

```

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
```

 summarizor

data summary preparation

Description

It performs a univariate statistical analysis of a dataset by group and formats the results so that they can be used with the [tabulator\(\)](#) function.

Usage

```
summarizor(x, by = character(), overall_label = NULL)
```

Arguments

| | |
|---------------|--|
| x | dataset |
| by | columns names to be used as grouping columns |
| overall_label | label to use as overall label |

Note

This is very first version of the function; be aware it can evolve or change.

See Also

[fmt_summarizor\(\)](#), [labelizor\(\)](#)

Examples

```
z <- summarizor(CO2[-c(1, 4)],
  by = "Treatment",
  overall_label = "Overall"
)
ft_1 <- as_flextable(z)
ft_1

# version 2 with your own functions ----
n_format <- function(n, percent) {
  z <- character(length = length(n))
  wcts <- !is.na(n)
  z[wcts] <- sprintf("%.0f (%.01f %%)",
    n[wcts], percent[wcts] * 100)
  z
}

stat_format <- function(stat, num1, num2,
  num1_mask = "%.01f",
  num2_mask = "(%.01f)") {
  z_num <- character(length = length(num1))

  is_mean_sd <- !is.na(num1) & !is.na(num2) & stat %in% "mean_sd"
  is_median_iqr <- !is.na(num1) & !is.na(num2) &
    stat %in% "median_iqr"
  is_range <- !is.na(num1) & !is.na(num2) & stat %in% "range"
  is_num_1 <- !is.na(num1) & is.na(num2)

  z_num[is_num_1] <- sprintf(num1_mask, num1[is_num_1])

  z_num[is_mean_sd] <- paste0(
    sprintf(num1_mask, num1[is_mean_sd]),
    " ",
    sprintf(num2_mask, num2[is_mean_sd])
  )
  z_num[is_median_iqr] <- paste0(
    sprintf(num1_mask, num1[is_median_iqr]),
    " ",
    sprintf(num2_mask, num2[is_median_iqr])
  )
  z_num[is_range] <- paste0(
    "[",
    sprintf(num1_mask, num1[is_range]),
    " - ",

```

```

    sprintf(num1_mask, num2[is_range]),
    "]"
  )

  z_num
}

tab_2 <- tabulator(z,
  rows = c("variable", "stat"),
  columns = "Treatment",
  `Est.` = as_paragraph(
    as_chunk(stat_format(stat, value1, value2))),
  `N` = as_paragraph(as_chunk(n_format(cts, percent)))
)

ft_2 <- as_flextable(tab_2, separate_with = "variable")
ft_2

```

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")

```

tabulator

Tabulation of aggregations

Description

It tabulates a data.frame representing an aggregation which is then transformed as a flextable. The function allows to define any display with the syntax of flextable in a table whose layout is showing dimensions of the aggregation across rows and columns.

Usage

```

tabulator(
  x,
  rows,
  columns,
  datasup_first = NULL,
  datasup_last = NULL,
  hidden_data = NULL,
  row_compose = list(),
  ...
)

## S3 method for class 'tabulator'
summary(object, ...)

```

Arguments

| | |
|---------------|--|
| x | an aggregated data.frame |
| rows | column names to use in rows dimensions |
| columns | column names to use in columns dimensions |
| datasup_first | additional data that will be merged with table and placed after the columns presenting the row dimensions. |
| datasup_last | additional data that will be merged with table and placed at the end of the table. |
| hidden_data | additional data that will be merged with table, the columns are not presented but can be used with <code>compose()</code> or <code>mk_par()</code> function. |
| row_compose | a list of call to <code>as_paragraph()</code> - these calls will be applied to the row dimensions (the name is used to target the displayed column). |
| ... | named arguments calling function <code>as_paragraph()</code> . The names are used as labels and the values are evaluated when the flextable is created. |
| object | an object returned by function <code>tabulator()</code> . |

Value

an object of class `tabulator`.

Methods (by generic)

- `summary(tabulator)`: call `summary()` to get a `data.frame` describing mappings between variables and their names in the flextable. This `data.frame` contains a column named `col_keys` where are stored the names that can be used for further selections.

Note

This is very first version of the function; be aware it can evolve or change.

See Also

[as_flextable.tabulator\(\)](#), [summarizor\(\)](#), [as_grouped_data\(\)](#), [tabulator_colnames\(\)](#)

Examples

```
n_format <- function(z){
  x <- sprintf("%.0f", z)
  x[is.na(z)] <- "-"
  x
}

set_flextable_defaults(digits = 2, border.color = "gray")

if(require("stats")){
  dat <- aggregate(breaks ~ wool + tension,
    data = warpbreaks, mean)

  cft_1 <- tabulator(
    x = dat, rows = "wool",
    columns = "tension",
    `mean` = as_paragraph(as_chunk(breaks)),
    `(N)` = as_paragraph(
      as_chunk(length(breaks), formatter = n_format ))
  )

  ft_1 <- as_flextable(cft_1)
  ft_1
}

if(require("data.table") && require("ggplot2")){

  multi_fun <- function(x) {
    list(mean = mean(x),
         sd = sd(x))
  }

  myformat <- function(z){
    x <- sprintf("%.1f", z)
    x[is.na(z)] <- ""
  }
}
```

```

    x
  }

  grey_txt <- fp_text_default(color = "gray")

  dat <- as.data.table(ggplot2::diamonds)
  dat <- dat[cut %in% c("Fair", "Good", "Very Good")]
  dat <- dat[clarity %in% c("I1", "SI1", "VS2")]

  dat <- dat[, unlist(lapply(.SD, multi_fun,
                           recursive = FALSE,
                           .SDcols = c("z", "y"),
                           by = c("cut", "color", "clarity")))]

  tab_2 <- tabulator(
    x = dat, rows = c("cut", "color"),
    columns = "clarity",
    `z stats` = as_paragraph(
      as_chunk(z.mean, formatter = myformat)),
    `y stats` = as_paragraph(
      as_chunk(y.mean, formatter = myformat),
      as_chunk(" (\u00B1 ", props = grey_txt),
      as_chunk(y.sd, formatter = myformat, props = grey_txt),
      as_chunk(")", props = grey_txt)
    )
  )
  ft_2 <- as_flextable(tab_2)
  ft_2 <- autofit(x = ft_2, add_w = .05)
  ft_2
}

if(require("data.table")){
  #' # data.table version
  dat <- melt(as.data.table(iris),
             id.vars = "Species",
             variable.name = "name", value.name = "value")[,
             list(avg = mean(value, na.rm = TRUE),
                  sd = sd(value, na.rm = TRUE)),
             by = c("Species", "name")
             ]
  # dplyr version
  # library(dplyr)
  # dat <- iris %>%
  #   pivot_longer(cols = -c(Species)) %>%
  #   group_by(Species, name) %>%
  #   summarise(avg = mean(value, na.rm = TRUE),
  #             sd = sd(value, na.rm = TRUE),
  #             .groups = "drop")

  tab_3 <- tabulator(
    x = dat, rows = c("Species"),
    columns = "name",
    `mean (sd)` = as_paragraph( as_chunk(avg),

```

```

      "(", as_chunk(sd), ")")
    )
ft_3 <- as_flextable(tab_3, separate_with = character(0))
ft_3
}

init_flextable_defaults()

```

tabulator_colnames *column keys of tabulator objects*

Description

The function provides a way to get column keys associated with the flextable corresponding to a [tabulator\(\)](#) object. It helps in customizing or programming with tabulator.

The function is using column names from the original dataset, eventually filters and returns the names corresponding to the selection.

Usage

```
tabulator_colnames(x, columns, ..., type = NULL)
```

Arguments

| | |
|---------|--|
| x | a tabulator() object |
| columns | column names to look for |
| ... | any filter conditions that use variables names, the same than the argument columns of function tabulator() (<code>tabulator(columns = c("col1", "col2"))</code>). |
| type | the type of column to look for, it can be: <ul style="list-style-type: none"> • 'columns': visible columns, corresponding to names provided in the '...' arguments of your call to 'tabulator()' • 'hidden': invisible columns, corresponding to names of the original dataset columns. • 'rows': visible columns used as 'row' content • 'rows_supp': visible columns used as 'rows_supp' content • NULL: any type of column |

See Also

[tabulator\(\)](#), [as_flextable.tabulator\(\)](#)

Examples

```

library(flextable)

cancer_dat <- data.frame(
  count = c(
    9L, 5L, 1L, 2L, 2L, 1L, 9L, 3L, 1L, 10L, 2L, 1L, 1L, 2L, 0L, 3L,
    2L, 1L, 1L, 2L, 0L, 12L, 4L, 1L, 7L, 3L, 1L, 5L, 5L, 3L, 10L,
    4L, 1L, 4L, 2L, 0L, 3L, 1L, 0L, 4L, 4L, 2L, 42L, 28L, 19L, 26L,
    19L, 11L, 12L, 10L, 7L, 10L, 5L, 6L, 5L, 0L, 3L, 4L, 3L, 3L,
    1L, 2L, 3L
  ),
  risktime = c(
    157L, 77L, 21L, 139L, 68L, 17L, 126L, 63L, 14L, 102L, 55L,
    12L, 88L, 50L, 10L, 82L, 45L, 8L, 76L, 42L, 6L, 134L, 71L,
    22L, 110L, 63L, 18L, 96L, 58L, 14L, 86L, 42L, 10L, 66L,
    35L, 8L, 59L, 32L, 8L, 51L, 28L, 6L, 212L, 130L, 101L,
    136L, 72L, 63L, 90L, 42L, 43L, 64L, 21L, 32L, 47L, 14L,
    21L, 39L, 13L, 14L, 29L, 7L, 10L
  ),
  time = rep(as.character(1:7), 3),
  histology = rep(as.character(1:3), 21),
  stage = rep(as.character(1:3), each = 21)
)

datasup_first <- data.frame(
  time = factor(1:7, levels = 1:7),
  zzz = runif(7)
)

z <- tabulator(cancer_dat,
  rows = "time",
  columns = c("histology", "stage"),
  datasup_first = datasup_first,
  n = as_paragraph(as_chunk(count))
)

j <- tabulator_colnames(
  x = z, type = "columns",
  columns = c("n"),
  stage %in% 1
)

src <- tabulator_colnames(
  x = z, type = "hidden",
  columns = c("count"),
  stage %in% 1
)

if (require("scales")) {
  colourer <- col_numeric(
    palette = c("wheat", "red"),
    domain = c(0, 45)
  )
}

```

```
)
ft_1 <- as_flextable(z)
ft_1 <- bg(
  ft_1,
  bg = colourer, part = "body",
  j = j, source = src
)
ft_1
}
```

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_apa\(\)](#), [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_apa | <i>Apply APA theme</i> |
|-----------|------------------------|

Description

Apply theme APA (the stylistic style of the American Psychological Association) to a flextable

Usage

```
theme_apa(x, ...)
```

Arguments

| | |
|-----|--------------------|
| x | a flextable object |
| ... | unused |

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 additional 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\(\)](#), [theme_zebra\(\)](#)

Examples

```
ft <- flextable(head(mtcars*22.22))
ft <- theme_apa(ft)
ft
```

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

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 additional 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_apa\(\)](#), [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 additional 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_apa\(\)](#), [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 | <i>Apply tron theme</i> |
|------------|-------------------------|

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 additional 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_apa\(\)](#), [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 | <i>Apply tron legacy theme</i> |
|-------------------|--------------------------------|

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 additional 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_apa()`, `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 additional 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_apa()`, `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 | <i>Apply vanilla theme</i> |
|---------------|----------------------------|

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_apa\(\)](#), [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 | <i>Apply zebra theme</i> |
|-------------|--------------------------|

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 additional 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_apa\(\)](#), [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 *set data.frame automatic printing 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\(\)](#)

use_model_printer *set model automatic printing as a flextable*

Description

Define [as_flextable\(\)](#) as print method in an R Markdown document for models of class:

- lm
- glm
- models from package 'lme' and 'lme4'
- htest (t.test, chisq.test, ...)
- gam
- kmeans and pam

In a setup run chunk:

```
flextable::use_model_printer()
```


Usage

```
use_model_printer()
```

See Also

```
use_df_printer(), flextable()
```

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

Description

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

Usage

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

Arguments

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

Illustrations**See Also**

Other sugar functions for table style: [align\(\)](#), [bg\(\)](#), [bold\(\)](#), [color\(\)](#), [empty_blanks\(\)](#), [fontsize\(\)](#), [font\(\)](#), [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 | <i>set vertical borders</i> |
|-------|-----------------------------|

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

Description

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

Usage

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

Arguments

| | |
|--------|--|
| x | a flextable object |
| i | rows selection |
| border | border 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 | <i>set flextable right vertical borders</i> |
|-------------|---|

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

Description

Set content display as a blank " ".

Usage

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

Arguments

| | |
|------|-----------------------|
| x | flextable object |
| j | columns selection |
| part | partname of the table |

Examples

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

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

Description

Defines the widths of one or more columns in the table. This function will have no effect if you have used `set_table_properties(layout = "autofit")`.

[set_table_properties\(\)](#) can provide an alternative to fixed-width layouts that is supported with HTML and Word output that can be set with `set_table_properties(layout = "autofit")`.

Usage

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

Arguments

| | |
|-------|--|
| x | a <code>flextable()</code> 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
```

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