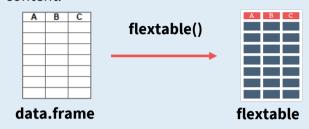
Tabular reporting with flextable:: cheat sheet

Basics

The **flextable** package provides a framework for easily create tables for reporting and publications.

Functions are provided to let users create tables, modify, format and define their content.



GENERAL FUNCTION'S STRUCTURE

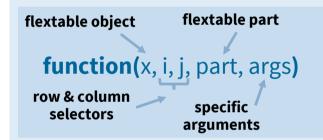
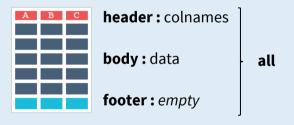


TABLE PARTS AND THEIRS DEFAULT VALUES



Selectors

i: row selector

i: column selector

FORMULA

i = ~ col %in% "xxx" col: column name

xxx: value $i = \sim col1 + col2$ col*: column name CHARACTER VECTOR j = c("col1", "col2") col*: column name

INTEGER VECTOR i = 1:3, j = 1:3

LOGICAL VECTOR

i = c(TRUE, FALSE), j = c(TRUE, FALSE)

Format

GENERAL Abc ft <- flextable(data)

get flextable defaults(): get flextable defaults formatting properties

set flextable defaults(): modify flextable defaults formatting properties

init flextable defaults(): re-init all values with the package defaults

style(pr_t, pr_p, pr_c**)** : modify flextable text, paragraphs and cells formatting properties (needs officer package)

pr t: object of class fp text pr_p object of class fp_par pr_c: object of class fp_cell

TEXT

font(ft, fontname = "Brush Script MT") Abc fontsize(ft, size = 7)Abc italic(ft, italic = TRUE) Abc bold(ft, bold = TRUE) Abc

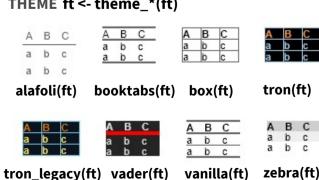
color(ft, color = "#eb5555") highlight(ft, color = "yellow") **Abc**

rotate(ft, rotation = "tbrl")

CELL

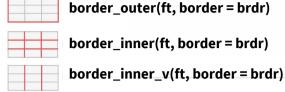
Abc	align(ft, align = "center")
Abc	valign(ft, valign = "top")
Abc	padding(ft, padding=10)
Abc	bg(ft, bg = "#475f77")
Abc	line_spacing(ft, space = 1.6)

THEME ft <- theme *(ft)



BORDER

brdr <- fp_border(color = "#eb5555", width = 1.5)</pre>



border inner h(ft, border = brdr)

border_remove(ft)

vline right(ft, border = brdr)

vline left(ft, border = brdr)

hline_top(ft, border = brdr)

hline_bottom(ft, border = brdr)

vline(ft, j=1:2, border = brdr)

hline(ft, i = 1:2, border = brdr)

Officer



fp text(): Text formatting properties color, font.size, bold, italic, underlined, font.family, vertical.align, shading.color

fp_par(): Paragraph formatting properties text.align, padding, line_spacing, border, shading.color, padding.bottom, padding.top, padding.left, padding.right, border.bottom, border.left, border.top, border.right

fp_cell(): Cell formatting properties

border, border.bottom, border.left, border.top, border.right, vertical.align, margin, margin.bottom, margin.top, margin.left, margin.right, background.color, text.direction

fp border(): border properties object color, style, width

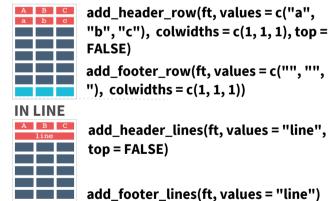
update(x, args): update an object of class fp_*



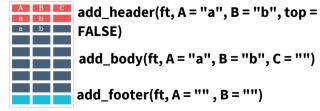
Layout

HEADER AND FOOTER

COLWIDTHS



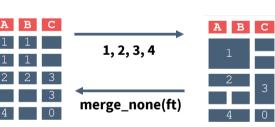
COLNAME



GENERAL

set_header_labels(ft, A = "Aaa", B = Aaa Bbb Ccc "Bbb", C = "Ccc") delete_part(ft, part = "body")

CELL MERGING



1: merge_at(ft, i = 1:2, j = 1:2)

2: merge_h(ft)

3: merge_v(ft)

4: merge_h_range(ft, i = ~ C %in% "0", j1 = "A", j2 = "B")

fix_border_issues(ft): fix border issues when cell are merged

CAPTIONS & FOOTNOTES



set_caption(ft, caption = "my caption")

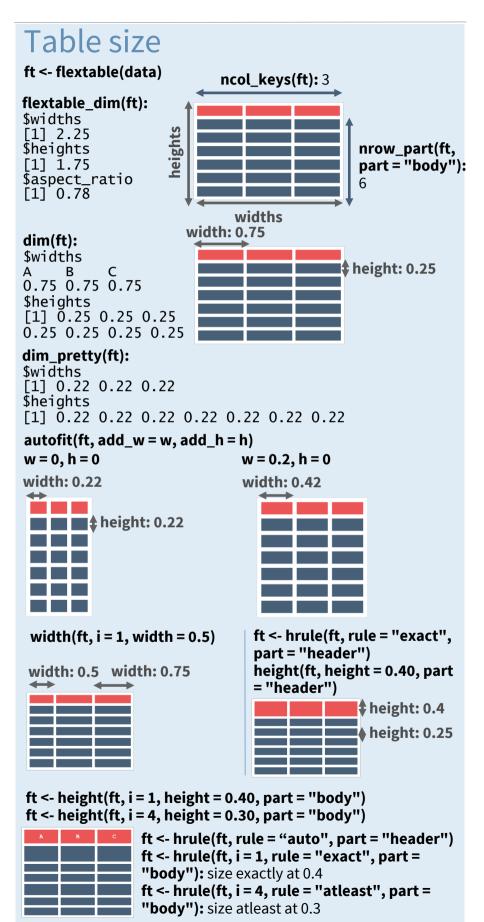


footnote(ft, j = 1, value = as_paragraph(c("footnote 1")), ref_symbols = c("1"), part = "header")



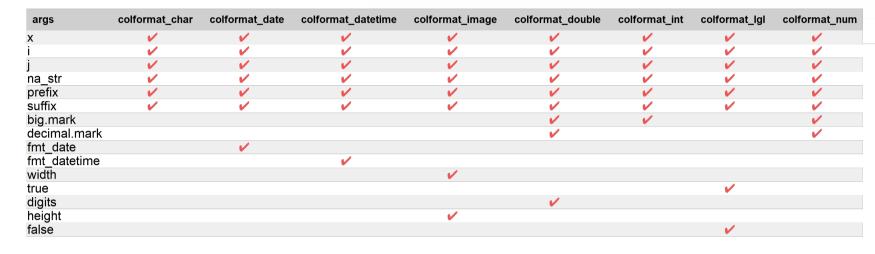
Tabular reporting with flextable:: cheat sheet





Cell content

SIMPLE FORMATTING



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

ft <- flextable(data) ft <- compose(ft, value = as_paragraph()</pre>

as_chunk("chunk"),
as_bracket("bracket")
as_b("bold"),
as_hithlight("highlight", color = "yellow")
as_i("italic"),
as_sub("sub"),

as_sup("sup"),
colorize("colorize", color = "#eb5555"),
hyperlink_text(hyperlink, url = "http://link"),
as_image(src, width = 0.2, height = 0.2)))



Rendering

flextable default format is HTML output printed in the rstudio viewer pane. flextable objects can be rendered in HTML format, Microsoft Word, Microsoft PowerPoint and PDF.









SIMPLE EXPORT

save_as_html(ft, "ft.html")
save_as_docx(ft, "ft.docx")
save_as_pptx(ft, "ft.pptx")
save_as_image(ft, "ft.png")

INTERACTIVE SESSION

print(ft, preview = "docx")
print(ft, preview = "pptx")

RMARKDOWN DOCUMENTS

```{r} library(flextable) ft <- flextable(ft) ft

LOOPING IN RMARKDOWN WITH FOR flextable to rmd(ft)

#### WITH OFFICER

ph\_with(ppt, value = ft) (PowerPoint)
ppt : an rpptx object
body\_add\_flextable(value = ft) (Word)

#### **IN SHINY**

library(shiny)
library(flextable)
ft <- flextable(data)
# In UI
uiOutput("ft")

# In server output\$ft <- renderUI({ htmltools\_value(ft) })

