Examples with {gt}

November 23, 2021

# Print a Plain Dataframe

df <- penguins %>%   
 head(n =10)  
  
df %>% gt()

# {gtsummary} Example: Default Print Engine

Example where we don’t specify print engine:

penguins %>%   
 tbl\_summary() %>%  
 bold\_labels() %>%  
 italicize\_levels()

## Table printed with {flextable}, not {gt}. Learn why at  
## http://www.danieldsjoberg.com/gtsummary/articles/rmarkdown.html  
## To suppress this message, include `message = FALSE` in the code chunk header.

| Characteristic | N = 3441 |
| --- | --- |
| **Species** |  |
| *Adelie* | 152 (44%) |
| *Chinstrap* | 68 (20%) |
| *Gentoo* | 124 (36%) |
| **Island** |  |
| *Biscoe* | 168 (49%) |
| *Dream* | 124 (36%) |
| *Torgersen* | 52 (15%) |
| **Bill Length Mm** | 44.5 (39.2, 48.5) |
| *Unknown* | 2 |
| **Bill Depth Mm** | 17.30 (15.60, 18.70) |
| *Unknown* | 2 |
| **Flipper Length Mm** | 197 (190, 213) |
| *Unknown* | 2 |
| **Body Mass G** | 4,050 (3,550, 4,750) |
| *Unknown* | 2 |
| **Sex** |  |
| *female* | 165 (50%) |
| *male* | 168 (50%) |
| *Unknown* | 11 |
| **Year** |  |
| *2007* | 110 (32%) |
| *2008* | 114 (33%) |
| *2009* | 120 (35%) |
| 1n (%); Median (IQR) | |

# {gtsummary} Example: Specify Print Engine

penguins %>%   
 tbl\_summary() %>%  
 bold\_labels() %>%  
 italicize\_levels() %>%  
 as\_gt()

# {gtsummary} Example: With Compact Theme

theme\_gtsummary\_compact()

## Setting theme `Compact`

penguins %>%   
 tbl\_summary() %>%  
 bold\_labels() %>%  
 italicize\_levels() %>%  
 as\_gt()

reset\_gtsummary\_theme()

# {gtsummary} Example: Add Title

penguins %>%   
 tbl\_summary() %>%  
 bold\_labels() %>%  
 italicize\_levels() %>%  
 as\_gt() %>%  
 tab\_header("Title")

# {gtsummary} Example: Highlight Specific Values

x <- penguins %>%   
 tbl\_summary(by = species) %>%  
 add\_p() %>%  
 bold\_labels() %>%  
 italicize\_levels() %>%  
 as\_gt() %>%  
 tab\_header("Title")  
  
# To inspect internals of gt object you can do:  
#x$`\_data`  
  
x$`\_data` <- x$`\_data` %>%  
 mutate(new\_cond = parse\_number(stat\_1))   
  
x %>%  
 gt::tab\_style(  
 style = list(  
 cell\_fill(color = "purple")  
 ),  
 locations = cells\_body(  
 columns = stat\_1,  
 rows = new\_cond >= 50   
 )  
 ) %>%  
 gt::tab\_style(  
 style = list(  
 cell\_fill(color = "red")  
 ),  
 locations = cells\_body(  
 columns = everything(),  
 rows = p.value <= 0.05   
 )  
 )

x %>%  
 mutate(new\_cond = parse\_number(stat\_0)) %>%  
 set\_text\_color(row = .$new\_cond >= 100, 2, "purple") %>%  
 select(-new\_cond)

# {gtsummary} Example: Merged Tables with Spanning Headers

sum <- penguins %>%  
 select(species, island, sex) %>%  
 tbl\_summary(by = species) %>%  
 add\_p()  
  
  
reg <- glm(species ~ island + sex,  
 family = binomial(), data = penguins) %>%  
 tbl\_regression(exponentiate = TRUE)

## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred  
  
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reg2 <- penguins %>%  
 # species limited to certain islands  
 select(-island) %>%  
 tbl\_uvregression(  
 method = glm,  
 y = species,   
 exponentiate = TRUE,   
 method.args = list(family = binomial())  
)  
  
x <- tbl\_merge(list(sum, reg, reg2),  
 tab\_spanner =   
 c("\*\*Summary Statistics\*\*", "\*\*Univariate\*\*\*",   
 "\*\*Multivariate\*\*\*")) %>%   
   
 as\_gt()   
  
# another spanner not possible yet  
# x %>%  
# tab\_spanner(  
# label = "performance",  
# columns = everything()  
# )  
  
  
x

# Add Footnotes

x <- penguins %>%   
 head(n = 10) %>%  
 gt()   
  
  
x %>%  
 tab\_footnote(  
 footnote = "island Custom Footnote",  
 locations = cells\_column\_labels(  
 columns = island  
 )) %>%  
 tab\_footnote(  
 footnote = "species Custom Footnote",  
 locations = cells\_column\_labels(  
 columns = species  
 ))

# Saving Quickly

Produces either an HTML, PDF, PNG, LaTeX, or RTF file.

gtsave(x,  
 filename = here::here("outputs",   
 "gt-quick-table.pdf"))

## PhantomJS not found. You can install it with webshot::install\_phantomjs(). If it is installed, please make sure the phantomjs executable can be found via the PATH variable.

## NULL