R Notebook

# Your Turn 1

Visualize the mpg dataset 3 times: 1. First as just the normal mpg. 2. Then by piping it into the gt() function 3. Then by piping it into the gt() function, but setting the rowname\_col parameter to model.

Note that plots now appear in the “Viewer” tab, not the “Plots” tab

mpg %>%   
 gt( rowname\_col = "model")

manufacturer

displ

year

cyl

trans

drv

cty

hwy

fl

class

a4

audi

1.8

1999

4

auto(l5)

f

18

29

p

compact

a4 quattro

audi

1.8

1999

4

manual(m5)

4

18

26

p

compact

a6 quattro

audi

2.8

1999

6

auto(l5)

4

15

24

p

midsize

c1500 suburban 2wd

chevrolet

5.3

2008

8

auto(l4)

r

14

20

r

suv

corvette

chevrolet

5.7

1999

8

manual(m6)

r

16

26

p

2seater

k1500 tahoe 4wd

chevrolet

5.3

2008

8

auto(l4)

4

14

19

r

suv

malibu

chevrolet

2.4

1999

4

auto(l4)

f

19

27

r

midsize

caravan 2wd

dodge

2.4

1999

4

auto(l3)

f

18

24

r

minivan

dakota pickup 4wd

dodge

3.7

2008

6

manual(m6)

4

15

19

r

pickup

durango 4wd

dodge

3.9

1999

6

auto(l4)

4

13

17

r

suv

# Your Turn 2

Copy the gt table from the previous exercise Add a title and subtitle with tab\_header. Add a footer with tab\_source\_note. Extra credit: use md at least once to use markdown

mpg %>%   
 gt( rowname\_col = "model") %>%   
 tab\_header( title = md("\*\*title\*\*"), subtitle = md("\*subtitle\*" ) ) %>%   
 tab\_source\_note( "source note") %>%   
 tab\_footnote( footnote = "footnote", locations = cells\_column\_labels(columns = vars(trans) ) )

title

subtitle

manufacturer

displ

year

cyl

trans1

drv

cty

hwy

fl

class

a4

audi

1.8

1999

4

auto(l5)

f

18

29

p

compact

a4 quattro

audi

1.8

1999

4

manual(m5)

4

18

26

p

compact

a6 quattro

audi

2.8

1999

6

auto(l5)

4

15

24

p

midsize

c1500 suburban 2wd

chevrolet

5.3

2008

8

auto(l4)

r

14

20

r

suv

corvette

chevrolet

5.7

1999

8

manual(m6)

r

16

26

p

2seater

k1500 tahoe 4wd

chevrolet

5.3

2008

8

auto(l4)

4

14

19

r

suv

malibu

chevrolet

2.4

1999

4

auto(l4)

f

19

27

r

midsize

caravan 2wd

dodge

2.4

1999

4

auto(l3)

f

18

24

r

minivan

dakota pickup 4wd

dodge

3.7

2008

6

manual(m6)

4

15

19

r

pickup

durango 4wd

dodge

3.9

1999

6

auto(l4)

4

13

17

r

suv

source note

1

footnote

# Your Turn 3

Use tab\_row\_group to add two groups to mpg: \* A group called “Older Cars” that has cars from 1999 \* A group called “Newer Cars” that has cars from 2008

mpg %>%   
 gt( rowname\_col = "model" ) %>%   
 tab\_header( title = md("\*\*title\*\*"), subtitle = md("\*subtitle\*" ) ) %>%   
 tab\_source\_note( "source note") %>%   
 tab\_footnote( footnote = "footnote", locations = cells\_column\_labels(columns = vars(trans) ) ) %>%   
 tab\_row\_group( group = "Older Cars", rows = year == 1999, others = "Newer Cars" )

title

subtitle

manufacturer

displ

year

cyl

trans1

drv

cty

hwy

fl

class

Older Cars

a4

audi

1.8

1999

4

auto(l5)

f

18

29

p

compact

a4 quattro

audi

1.8

1999

4

manual(m5)

4

18

26

p

compact

a6 quattro

audi

2.8

1999

6

auto(l5)

4

15

24

p

midsize

corvette

chevrolet

5.7

1999

8

manual(m6)

r

16

26

p

2seater

malibu

chevrolet

2.4

1999

4

auto(l4)

f

19

27

r

midsize

caravan 2wd

dodge

2.4

1999

4

auto(l3)

f

18

24

r

minivan

durango 4wd

dodge

3.9

1999

6

auto(l4)

4

13

17

r

suv

Newer Cars

c1500 suburban 2wd

chevrolet

5.3

2008

8

auto(l4)

r

14

20

r

suv

k1500 tahoe 4wd

chevrolet

5.3

2008

8

auto(l4)

4

14

19

r

suv

dakota pickup 4wd

dodge

3.7

2008

6

manual(m6)

4

15

19

r

pickup

source note

1

footnote

# Your Turn 4

Use the tbl\_summary function in the gtsummary package to create a summary table of the data below.

Then set the by parameter to trt.

Read the help (?tbl\_summary) to familiarize yourself with other options.

library(gtsummary)  
  
# view this variable, and then create a summary table of it  
trial2 <- trial %>% select(trt, age, grade, response)   
  
tbl\_summary( trial2)

## 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 = 2001 |
| --- | --- |
| Chemotherapy Treatment |  |
| Drug A | 98 (49%) |
| Drug B | 102 (51%) |
| Age | 47 (38, 57) |
| Unknown | 11 |
| Grade |  |
| I | 68 (34%) |
| II | 68 (34%) |
| III | 64 (32%) |
| Tumor Response | 61 (32%) |
| Unknown | 7 |
| 1Statistics presented: n (%); Median (IQR) | |

tbl\_summary( trial2, by = trt)

## 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 | Drug A, N = 981 | Drug B, N = 1021 |
| --- | --- | --- |
| Age | 46 (37, 59) | 48 (39, 56) |
| Unknown | 7 | 4 |
| Grade |  |  |
| I | 35 (36%) | 33 (32%) |
| II | 32 (33%) | 36 (35%) |
| III | 31 (32%) | 33 (32%) |
| Tumor Response | 28 (29%) | 33 (34%) |
| Unknown | 3 | 4 |
| 1Statistics presented: Median (IQR); n (%) | | |