W8 Examples

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library(tidyverse)

data(mtcars)

We can include R code inline as well like this: The average amount of cylinders of the cars in the mtcars dataset is 6.1875.

## Nice Tables

Now let’s create some better looking tables. The following looks good in RStudio, but after rendering not that much.

head(mtcars)

## mpg cyl disp hp drat wt qsec vs am gear carb  
## Mazda RX4 21.0 6 160 110 3.90 2.620 16.46 0 1 4 4  
## Mazda RX4 Wag 21.0 6 160 110 3.90 2.875 17.02 0 1 4 4  
## Datsun 710 22.8 4 108 93 3.85 2.320 18.61 1 1 4 1  
## Hornet 4 Drive 21.4 6 258 110 3.08 3.215 19.44 1 0 3 1  
## Hornet Sportabout 18.7 8 360 175 3.15 3.440 17.02 0 0 3 2  
## Valiant 18.1 6 225 105 2.76 3.460 20.22 1 0 3 1

knitr::kable() creates an actual table in the target format (In RStudio it doesn’t lool that nice though!)

knitr::kable(head(mtcars))

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
| Mazda RX4 | 21.0 | 6 | 160 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 | 4 | 4 |
| Mazda RX4 Wag | 21.0 | 6 | 160 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 | 4 | 4 |
| Datsun 710 | 22.8 | 4 | 108 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 | 4 | 1 |
| Hornet 4 Drive | 21.4 | 6 | 258 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 | 3 | 1 |
| Hornet Sportabout | 18.7 | 8 | 360 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 | 3 | 2 |
| Valiant | 18.1 | 6 | 225 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 | 3 | 1 |

The kableExtra package allows us to manipulate the output tables in detail:

library(kableExtra)  
  
knitr::kable(head(mtcars)) %>%  
 kable\_styling(bootstrap\_options = c("striped", "hover", "condensed", "responsive")) %>%  
 row\_spec(0, angle = -45)

mpg

cyl

disp

hp

drat

wt

qsec

vs

am

gear

carb

Mazda RX4

21.0

6

160

110

3.90

2.620

16.46

0

1

4

4

Mazda RX4 Wag

21.0

6

160

110

3.90

2.875

17.02

0

1

4

4

Datsun 710

22.8

4

108

93

3.85

2.320

18.61

1

1

4

1

Hornet 4 Drive

21.4

6

258

110

3.08

3.215

19.44

1

0

3

1

Hornet Sportabout

18.7

8

360

175

3.15

3.440

17.02

0

0

3

2

Valiant

18.1

6

225

105

2.76

3.460

20.22

1

0

3

1

## Regression Tables

with sjPlot:

library(sjPlot)  
  
mod1 <- lm(mpg ~ cyl + vs + gear, data = mtcars)  
  
tab\_model(mod1)

mpg

Predictors

Estimates

CI

p

(Intercept)

35.93

20.78 – 51.08

<0.001

cyl

-2.87

-4.21 – -1.52

<0.001

vs

-0.47

-4.71 – 3.77

0.830

gear

0.57

-1.38 – 2.52

0.571

Observations

32

R2 / R2 adjusted

0.731 / 0.703