

W8 Examples 1

Till Krenz

12/4/2019

```
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 look that nice though!)

```
library(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)
```

```
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

```
mtcars %>%
  count(cyl) %>%
  mutate(percent = n / sum(n) * 100) %>%
  kable()
```

cyl	n	percent
4	11	34.375
6	7	21.875
8	14	43.750