

Problem set 1

Put your name here

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```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.5.1      v tibble     3.2.1
v lubridate  1.9.3      v tidyr      1.3.1
v purrr      1.0.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

Learning R

Read the data

Read the `cars.csv` data into R. Make sure to use the correct path (“data/cars.csv”). Name the data frame “cars” when reading it in. You don’t need to understand what all the variables mean.

```
cars <- read_csv("../data/cars.csv")
```

```
Rows: 234 Columns: 11
```

```
-- Column specification -----
```

```
Delimiter: ","
```

```
chr (6): manufacturer, model, trans, drv, fl, class
```

```
dbl (5): displ, year, cyl, cty, hwy
```

i Use ``spec()`` to retrieve the full column specification for this data.

i Specify the column types or set ``show_col_types = FALSE`` to quiet this message.

What's the class of the model and the year variable?

```
class(cars$model)
```

```
[1] "character"
```

```
class(cars$year)
```

```
[1] "numeric"
```

Subset the cars data by selecting only rows that correspond to the manufacturer “honda” and that shows only the columns for models and the year. Name that subset “honda_data” and print it.

```
honda_data <- cars[cars$manufacturer == "honda", c("model", "year")]
```

```
# alternative
```

```
honda_data <- cars %>%
```

```
  filter(manufacturer == "honda") %>%
```

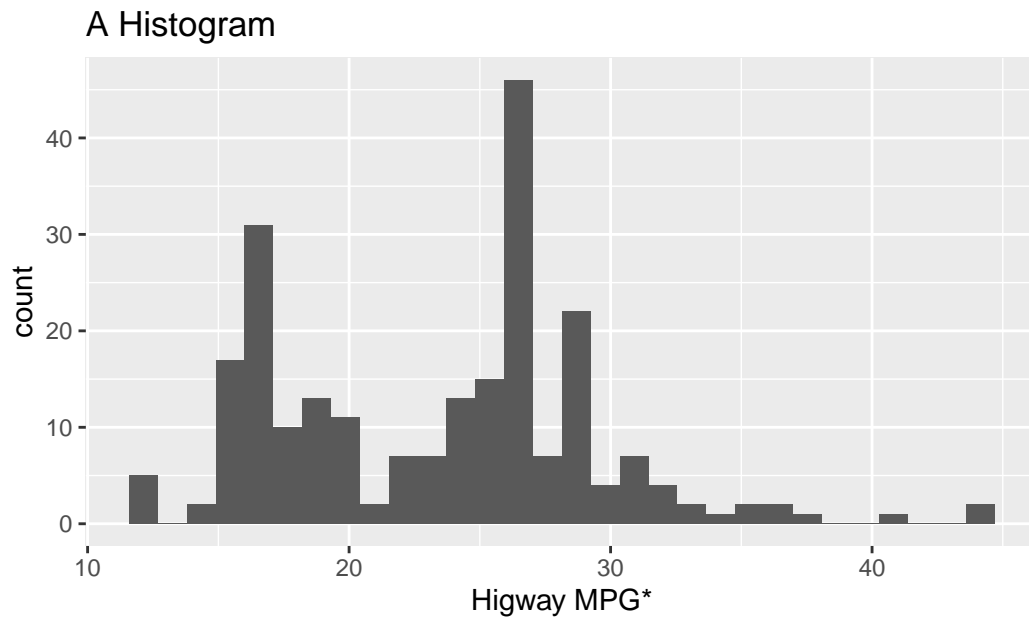
```
  select(model, year)
```

My first plots

You haven't learned about plots yet. But to give you a taste for what's coming, execute the code chunk below and let the magic happen. Make sure your data frame is named "cars" for this to work

A plot on the distance that cars can travel per gallon. Note that we will hide the code when rendering by setting `echo: false`.

```
`stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



*miles per gallon, is the distance, measured in miles, that a car can travel per gallon of fuel.