Problem set 1

Put your name here

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library(tidyverse)

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

# 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`.

