Weekly Practice 1

Problems

Libraries

1. Load the `tidyverse` package.

2. Provide the code needed to install the `estimatr` package and the `here` package. You should also install this package on your machine for the future.

Plotting Practice

On bCourses is a csv file called `wpData.csv`

Question 1

a. Read in this file to R as a tibble. Name your tibble "img" (without quotes).

b. Using `ggplot2` make a scatterplot of the data. Set the color aesthetic to the z column. In your chain add the functions `scale_color_identity()` and `theme_void()`. Using the function to give your plot a title, set the title to "How Learning Often Feels." (Note, this may take a little bit of time to run).

Question 2

a. Set the RNG seed to 42, and run it to make sure that your random number generator starts in the right place.

b. Create a tibble named `practice` with five variables:

- id: the sequential set of numbers beginning at 100 and ending at 200 inclusive.

- x: a set of observations from a uniform distribution with a minimum of 7 and a maximum of 42

- y: a set of observations from a standard normal distribution

- u: a set of observation from a normal distribution centered at 100 with variance 100

- d: a set of binomial observations from a fair coin.

c. What is the number of rows of the data frame you made? What is the number of columns?

d. Use a function to print the first six rows of your data frame.

Question 3

For each of the following code blocks, explain why will result in an error. Fix the error to make the code run.

a.

```
A_VARIABLE <- 25
A_VAR1ABLE
```

b.

```
multNum <- function(arg1, arg2){
  out <- arg1 * arg2
  return(out)
}

multNum(2) == 10
```

c.

```
myTibble <- tibble(
  x = c(1,2,4,6),
  y = c("John", "Paul", "George, "Ringo"),
  z = c(TRUE, FALSE, TRUE, FALSE)
)
```