Week 3 DS Recitation Part 1

SIBDS 2024 @ Columbia

11 June, 2024

Getting Started

Tasks:

- 1. Create a new R project and named it Week 3 DS Recitation
- 2. Put the week_3_DS_recitation.Rmd file into the same folder of the R project you just created.
- 3. Modify the YAML header as follows:

```
title: "Week 3 DS Recitation"
date: "11 June, 2024"
author: "SIBDS 2024 @ Columbia"
output:
   html_document:
     toc: true
     code_folding: "show"
---
```

Now, knit this .Rmd file to make sure it runs as expected.

4. Finally, create a folder within the project folder named data. Put the data files we downloaded in Tuesday's class in to this folder.

Writing with Data

Tasks:

- 1. Write a named code chunk names sample_df that creates a dataframe comprised of
 - random_vec: A numeric variable containing a random sample of size 500 from a normal variable with mean 1 and standard deviation 3.
 - logical_vec: A logical vector indicating whether each sampled value is greater than zero, can you do it in the simplest way?
 - abs_vec: A numeric vector containing the absolute value (using abs()) of each element.
- 2. Produce a histogram of the absolute value variable just created.
- 3. Fill in the blank using the in-line code giving the mean, median, and standard deviation of random_vec (*Hint*: you may need to use the pull() function in tidyverse):

- Mean: REPLACE THIS BY YOUR CODE
- Median: REPLACE THIS BY YOUR CODE
- SD: REPLACE THIS BY YOUR CODE