

# Week 3 DS Recitation

SIBDS 2023@ Columbia

14 June, 2023

## 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: "14 June, 2023"
author: "SIBDS 2023@ 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.

```
# Your answer starts here:
```

2. Produce a histogram of the absolute value variable just created.

```
# Your answer starts here:
```

4. 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

## Data Import

### Tasks:

1. Load the `FAS_pups.csv` dataset. Use both absolute and relative paths

```
# Your answer starts here:
```