Assignment 1 - Penguins Dataset

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Purpose

Set up R/RStudio/GitHub and demonstrate basic data analysis steps in R using a dataset.

Dataset and Source

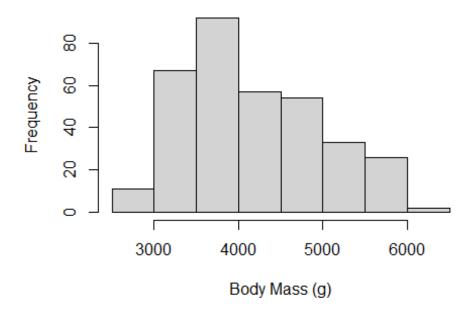
We use the Palmer Penguins dataset (with a mix of quantitative + categorical variables). **Source:**

https://raw.githubusercontent.com/allisonhorst/palmerpenguins/main/inst/extdata/penguins.csv

Import dataset

```
penguins <- read.csv(</pre>
"https://raw.githubusercontent.com/allisonhorst/palmerpenguins/main/inst/extd
ata/penguins.csv"
)
## Plot Points
summary(penguins$bill_length_mm) #Quantitative
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
                                                      NA's
##
     32.10
            39.23 44.45 43.92 48.50
                                             59.60
                                                         2
summary(penguins$body_mass_g) #Quantitative
##
     Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
                                                      NA's
##
     2700
             3550
                     4050
                              4202
                                     4750
                                              6300
                                                         2
table(penguins$species)
                                #Categorical
##
##
     Adelie Chinstrap
                          Gentoo
##
         152
                    68
                             124
table(penguins$sex)
                                #Categorical
##
## female
            male
     165
             168
##
# Transform Var
penguins$body_mass_z <- scale(penguins$body_mass_g)</pre>
head(penguins$body_mass_z)
```

Histogram of Penguin Body Mass



Scatterplot: Bill Length vs Flipper Length

