

Exploring Palmer Penguins Dataset

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Exploring the Palmer Penguins dataset

Objectives:

1. Is there a correlation between flipper length and body mass?
2. Which penguin species is the largest?
3. Does sex affect body mass?

Environment Setup Loading the following packages

- tidyverse
- ggplot2
- palmerpenguins
- gridExtra

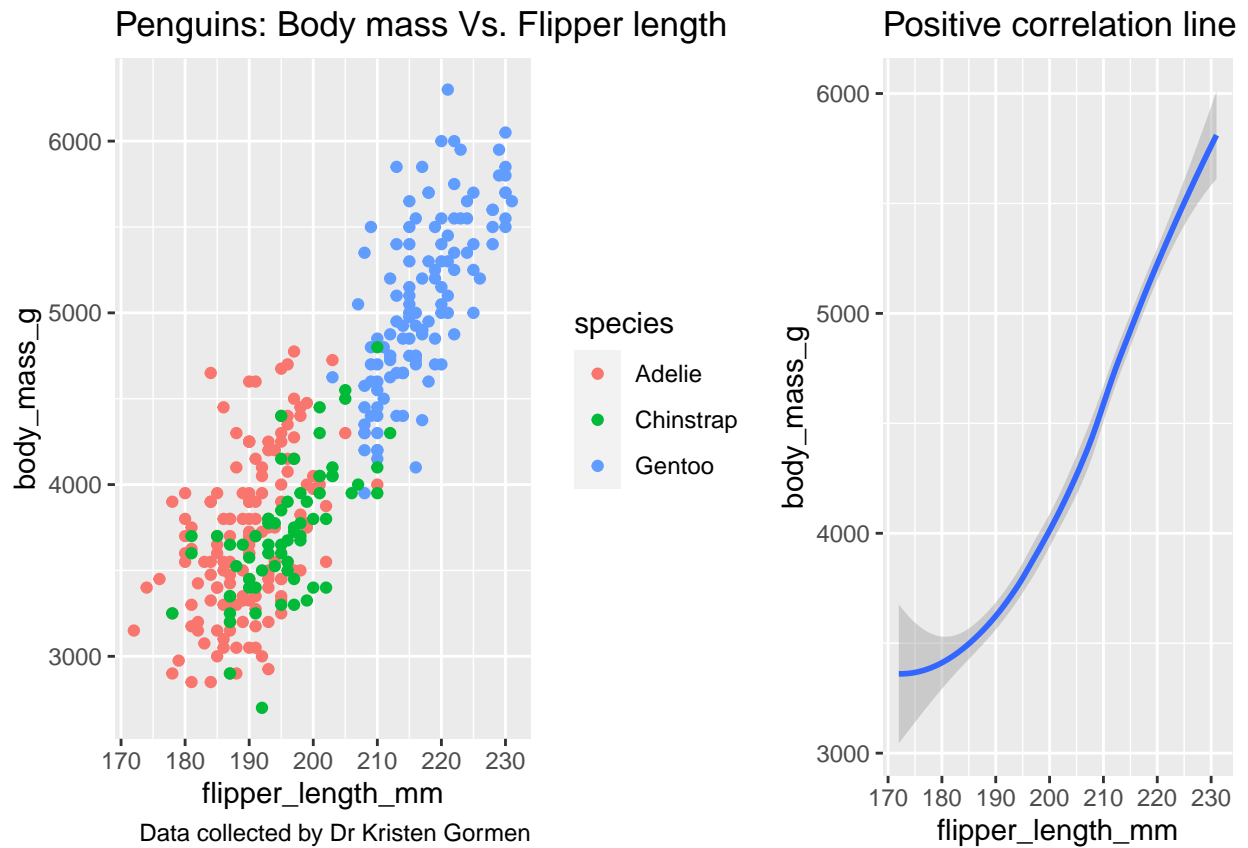
```
library(tidyverse)
library(ggplot2)
library(palmerpenguins)
library(gridExtra)
```

The Penguins Dataset:-

```
## # A tibble: 6 x 8
##   species island   bill_length_mm bill_depth_mm flipper_length_mm body_mass_g
##   <fct>   <fct>         <dbl>         <dbl>         <int>         <int>
## 1 Adelie  Torgersen         39.1          18.7          181          3750
## 2 Adelie  Torgersen         39.5          17.4          186          3800
## 3 Adelie  Torgersen         40.3          18           195          3250
## 4 Adelie  Torgersen         NA           NA            NA            NA
## 5 Adelie  Torgersen         36.7          19.3          193          3450
## 6 Adelie  Torgersen         39.3          20.6          190          3650
## # i 2 more variables: sex <fct>, year <int>
```

Objective 1:

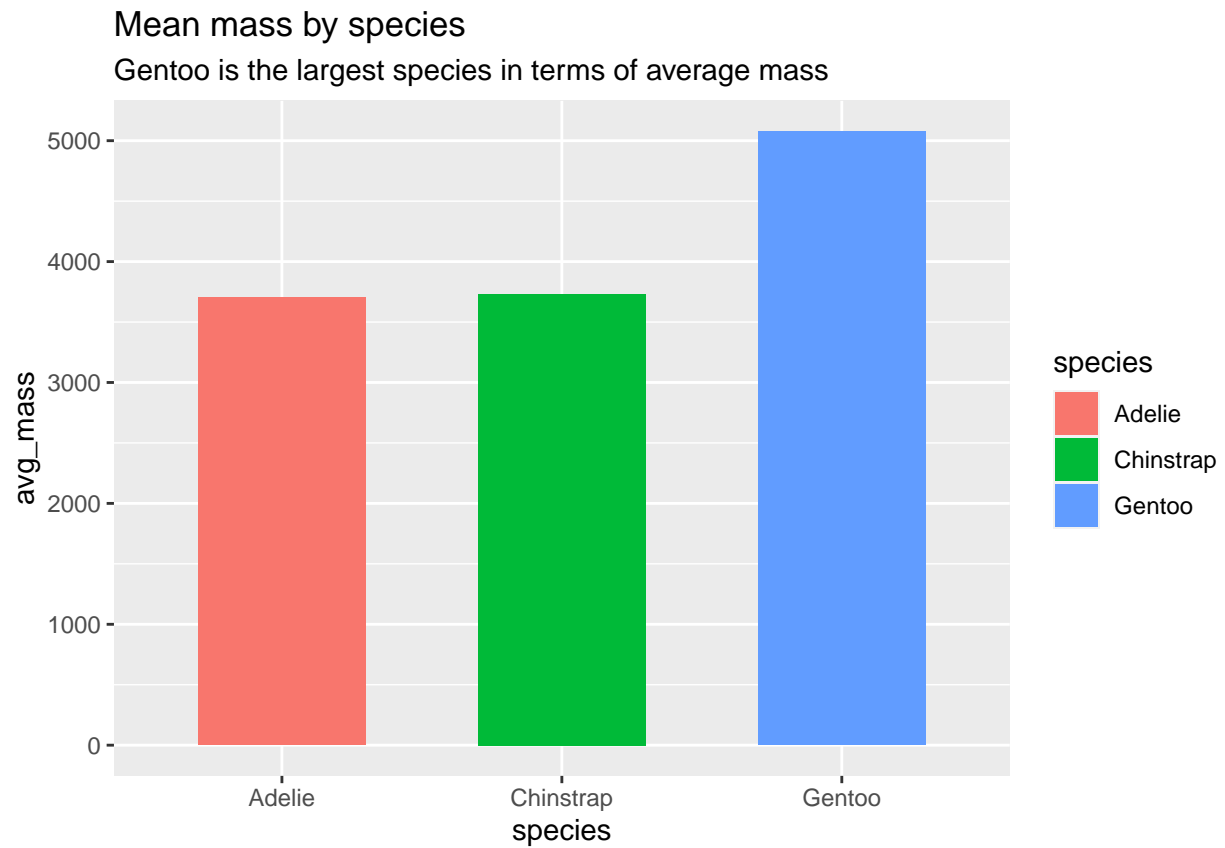
Finding if there is a correlation between mass & flipper length.



Postive correlation between the two variables. as one variable changes, so does the other!

Objective 2

Finding out which species of penguins is the heaviest.



Objective 3

Does sex play a role on weight?

Mass difference between males & females

Males tend to have more mass than females

