

Data Visualization with ggplot2 in R

Activity #1: Creating Base Plots

0.0 Getting Started

Install and load the **palmerpenguins** package. You should notice that you now have access to the **penguins** dataset, even though it does not appear in the global environment.

```
install.packages("palmerpenguins")
```

```
library(ggplot2)
library(palmerpenguins)
head(penguins)
```

```
# A tibble: 6 × 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>
```

1.0 Creating a Base Plot

Using the `penguins` dataset, create a scatterplot (using `geom_point()`) of `flipper_length_mm` (Y axis) by `body_mass_g` (X axis). Your plot should include *each* of the following:

- Title
- Subtitle
- X-axis title
- Y-axis title

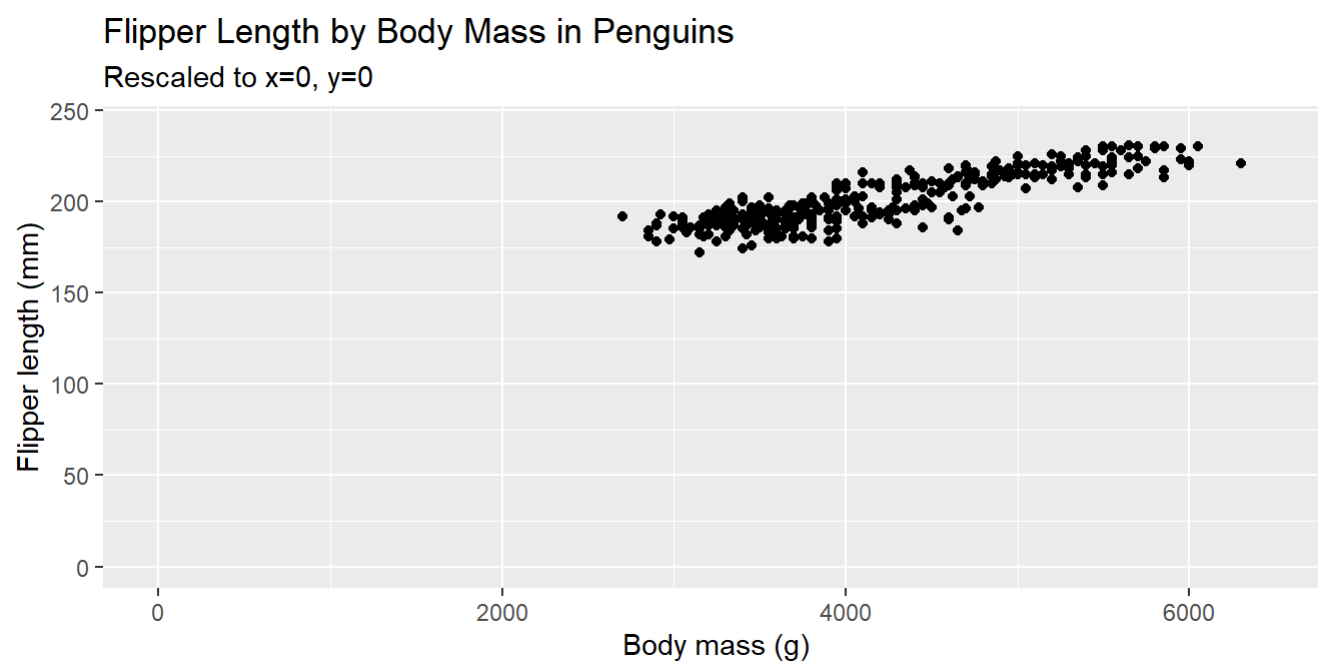
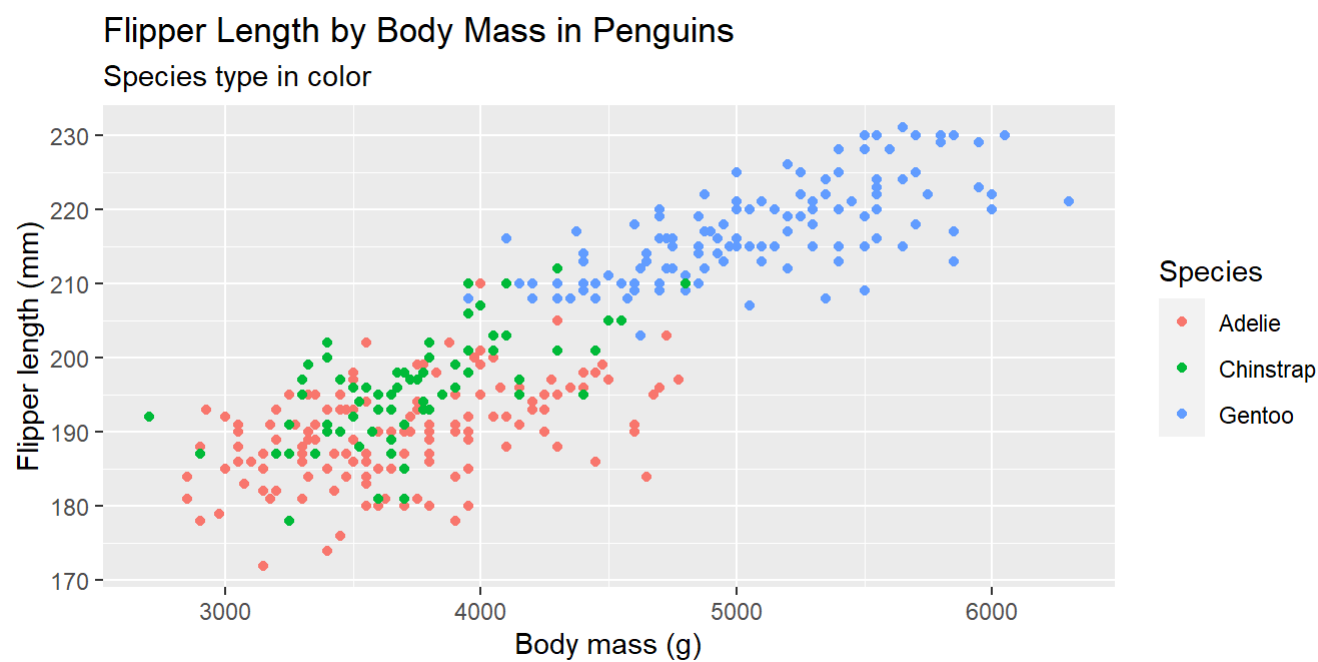
NOTE: Reference the code available to you in the slides or the code-along .R file.

2.0 Adding a Layer

Add a layer to your base plot with any *one* of the following:

- Mapped aesthetic
- Scale change (axis, color, size, etc.)
- Facet

3.0 Examples



Flipper Length by Body Mass in Penguins

faceted by species

