## New RMD file DH

## Dylan

## 2025-06-12

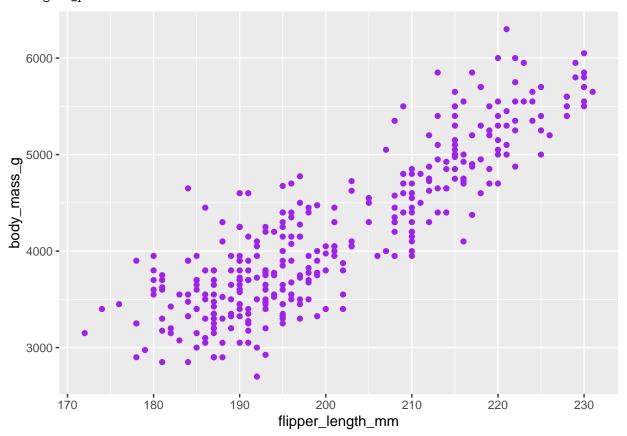
## Setting up my environment

## \$ sex

```
Notes: setting up my R environment by loading the 'tidyverse' and 'plamerpenguins' packages
install.packages("tidyverse")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
install.packages("palmerpenguins")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.3'
## (as 'lib' is unspecified)
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
                                1.1.4
                                                          v readr
                                                                                       2.1.4
                                1.0.0
## v forcats
                                                          v stringr
                                                                                       1.5.0
## v ggplot2 3.5.2
                                                                                       3.2.1
                                                          v tibble
## v lubridate 1.9.2
                                                          v tidyr
                                                                                       1.3.1
## v purrr
                                   1.0.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                                                masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(palmerpenguins)
# Load packages
library(tidyverse)
library(palmerpenguins)
# Preview dataset
glimpse(penguins)
## Rows: 344
## Columns: 8
## $ species
                                                      <fct> Adelie, 
## $ island
                                                      <fct> Torgersen, Torgersen, Torgersen, Torgersen, Torgerse~
## $ bill_length_mm
                                                      <dbl> 39.1, 39.5, 40.3, NA, 36.7, 39.3, 38.9, 39.2, 34.1, ~
                                                      <dbl> 18.7, 17.4, 18.0, NA, 19.3, 20.6, 17.8, 19.6, 18.1, ~
## $ bill_depth_mm
## $ flipper_length_mm <int> 181, 186, 195, NA, 193, 190, 181, 195, 193, 190, 186~
## $ body_mass_g
                                                      <int> 3750, 3800, 3250, NA, 3450, 3650, 3625, 4675, 3475, ~
```

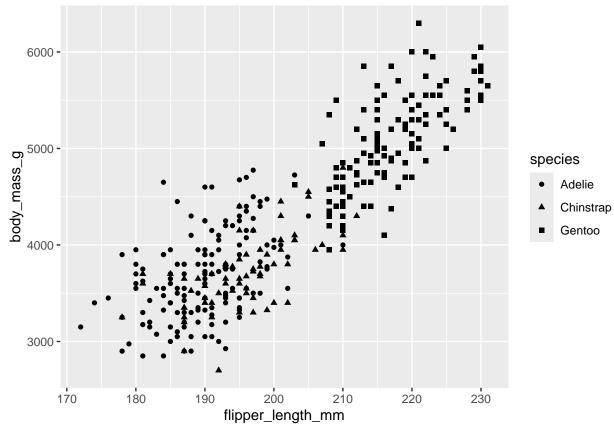
<fct> male, female, female, NA, female, male, female, male~

## Warning: Removed 2 rows containing missing values or values outside the scale range
## (`geom\_point()`).



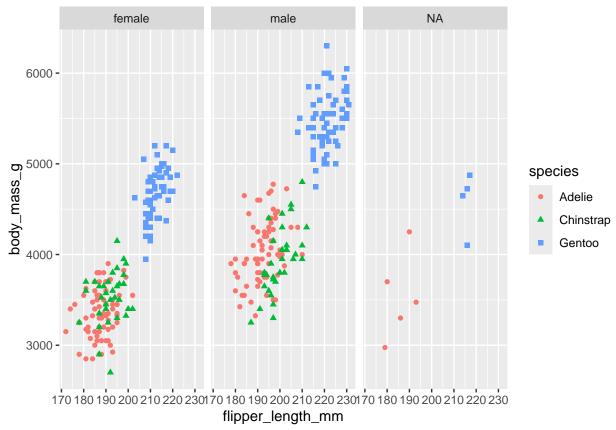
```
# Plot 2: Scatterplot with shape mapped to species
ggplot(data = penguins, aes(x = flipper_length_mm, y = body_mass_g)) +
geom_point(aes(shape = species))
```

## Warning: Removed 2 rows containing missing values or values outside the scale range
## (`geom\_point()`).



```
# Plot 3: Scatterplot with color and shape mapped to species, faceted by sex
ggplot(data = penguins, aes(x = flipper_length_mm, y = body_mass_g)) +
geom_point(aes(color = species, shape = species)) +
facet_wrap(~sex)
```

## Warning: Removed 2 rows containing missing values or values outside the scale range
## (`geom\_point()`).



```
# Plot 4: Same as above, but with missing 'sex' values dropped
penguins %>%
  drop_na(sex) %>%
  ggplot(aes(x = flipper_length_mm, y = body_mass_g)) +
  geom_point(aes(color = species, shape = species)) +
  facet_wrap(~sex)
```

