Victor Mpofu

2023-04-24

setting up my environment

Notes:setting up my R environment by loading the 'tidyverse' and 'palmer penguins'packages

```
library("tidyverse")

## Warning: package 'tidyverse' was built under R version 4.2.3

## Warning: package 'ggplot2' was built under R version 4.2.3

## Warning: package 'tibble' was built under R version 4.2.3

## Warning: package 'tidyr' was built under R version 4.2.3

## Warning: package 'readr' was built under R version 4.2.3

## Warning: package 'purrr' was built under R version 4.2.3

## Warning: package 'dplyr' was built under R version 4.2.3

## Warning: package 'stringr' was built under R version 4.2.3

## Warning: package 'forcats' was built under R version 4.2.3

## Warning: package 'lubridate' was built under R version 4.2.3

## ── Attaching core tidyverse packages ──────────────────────── tidyverse
2.0.0 ──
## ✓ dplyr     1.1.1     ✓ readr     2.1.4
## ✓ forcats   1.0.0     ✓ stringr   1.5.0
## ✓ ggplot2   3.4.2     ✓ tibble    3.2.1
## ✓ lubridate 1.9.2     ✓ tidyr     1.3.0
## ✓ purrr     1.0.1
## ── Conflicts ──────────────────────────────────────────
tidyverse_conflicts() ──
## ✗ dplyr::filter() masks stats::filter()
## ✗ dplyr::lag()    masks stats::lag()
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all
conflicts to become errors

library("palmerpenguins")

## Warning: package 'palmerpenguins' was built under R version 4.2.3
```
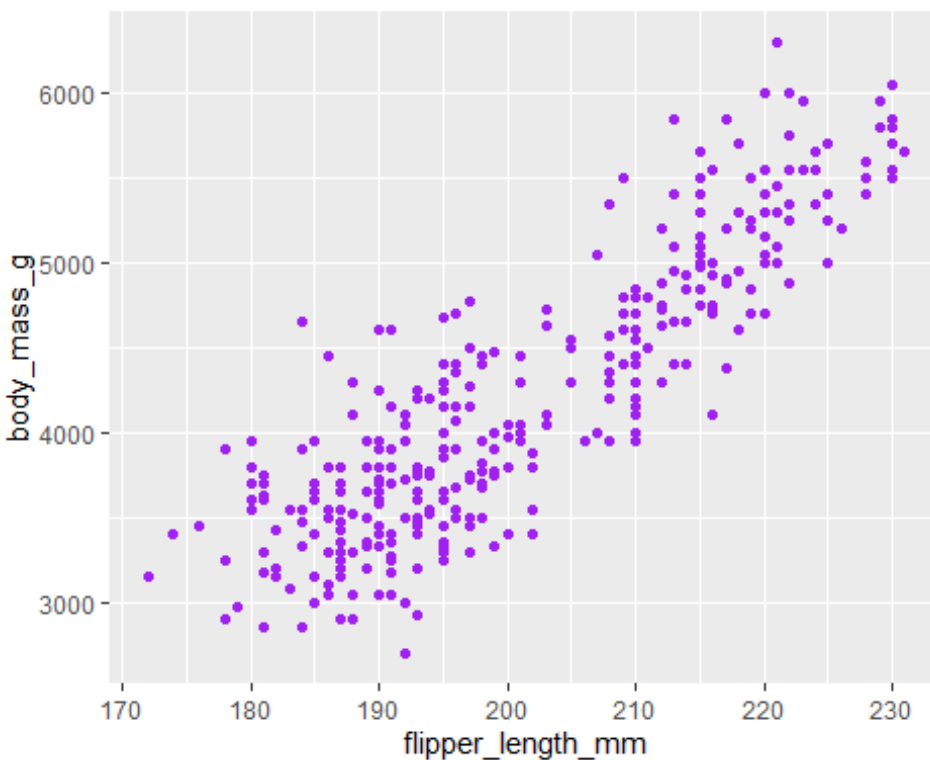
Visualizations

Here we will go through a series of visualizations

Flipper and body mass in purple
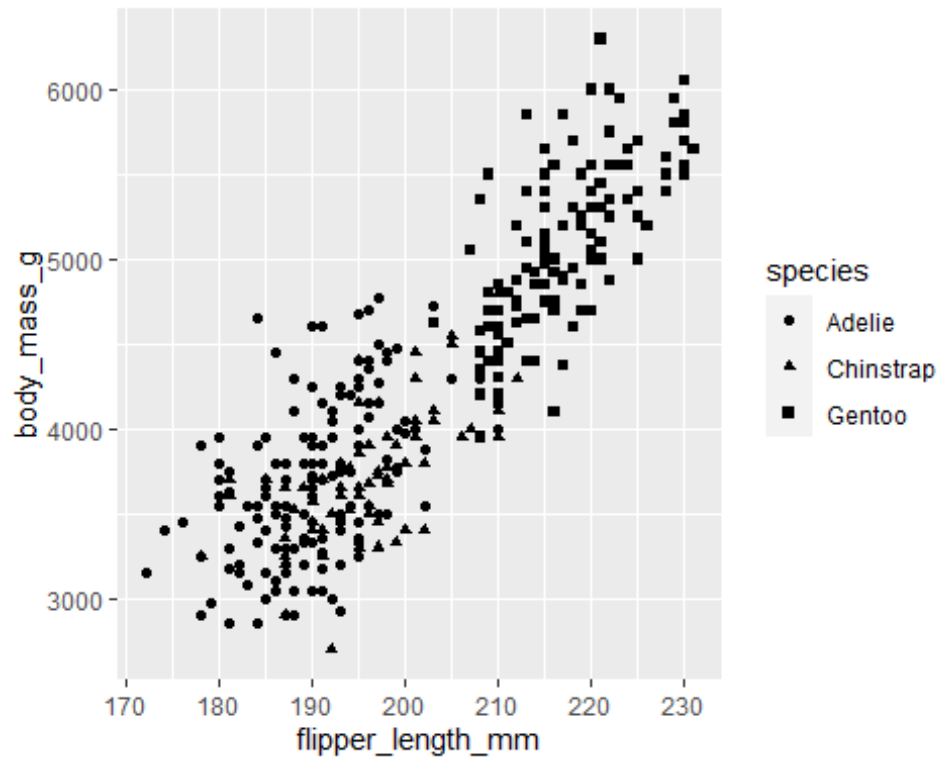
Here, we plot flipper length against body mass

```
ggplot(data=penguins,aes(x=flipper_length_mm,y=body_mass_g))+
  geom_point(color="purple")

## Warning: Removed 2 rows containing missing values (`geom_point()`).
```


Flipper and body mass by species

Here, we plot flipper length against body mass and look at the by species and sex

```
ggplot(data=penguins,aes(x=flipper_length_mm,y=body_mass_g))+
  geom_point(aes(shape=species))

## Warning: Removed 2 rows containing missing values (`geom_point()`).
```

Flipper and body mass by species and sex

Here,we plot flipper length against body mass and look at the breakdown by species and 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 (`geom_point()`).
```