Homework1

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library("jpeg")  
library("patchwork")  
library("tidyverse")

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.1 ──

## ✓ ggplot2 3.3.5 ✓ purrr 0.3.4  
## ✓ tibble 3.1.2 ✓ dplyr 1.0.7  
## ✓ tidyr 1.1.3 ✓ stringr 1.4.0  
## ✓ readr 1.4.0 ✓ forcats 0.5.1

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

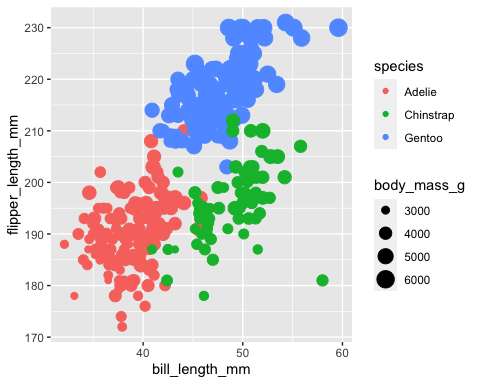
penguin\_gd <- read.csv('w02-penguins.csv')

head(penguin\_gd)

## X species island bill\_length\_mm bill\_depth\_mm flipper\_length\_mm  
## 1 1 Adelie Torgersen 39.1 18.7 181  
## 2 2 Adelie Torgersen 39.5 17.4 186  
## 3 3 Adelie Torgersen 40.3 18.0 195  
## 4 4 Adelie Torgersen NA NA NA  
## 5 5 Adelie Torgersen 36.7 19.3 193  
## 6 6 Adelie Torgersen 39.3 20.6 190  
## body\_mass\_g sex year  
## 1 3750 male 2007  
## 2 3800 female 2007  
## 3 3250 female 2007  
## 4 NA <NA> 2007  
## 5 3450 female 2007  
## 6 3650 male 2007

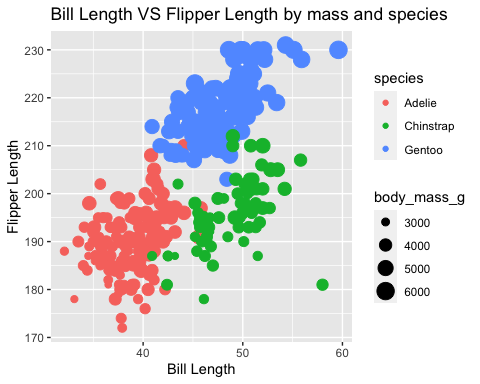
peng\_plot\_gd <- ggplot(data = penguin\_gd)+  
 geom\_point(mapping = aes(bill\_length\_mm, flipper\_length\_mm,color=species,size=body\_mass\_g))  
peng\_plot\_gd

## Warning: Removed 2 rows containing missing values (geom\_point).



ppl\_gd <- peng\_plot\_gd+labs(x="Bill Length",y="Flipper Length",  
 title = "Bill Length VS Flipper Length by mass and species")  
ppl\_gd

## Warning: Removed 2 rows containing missing values (geom\_point).



download.file("https://github.com/gditaranto/STA553/blob/main/30TB-PENGUINS04-mediumSquareAt3X.jpg?raw=true",  
 "penguin.jpg",  
 mode = "wb")  
  
my\_image\_pen<- readJPEG("penguin.jpg")   
raster.penguine <- as.raster(my\_image\_pen)

img\_graph\_gd <- ppl\_gd +   
 inset\_element(p = raster.penguine,  
 left = 0.05,  
 bottom = 0.65,  
 right = 0.25,  
 top = 0.95)   
img\_graph\_gd

## Warning: Removed 2 rows containing missing values (geom\_point).

