Penguins

```
library(tidyverse)
library(tidytuesdayR)
library(scales)
library(dbplyr)
library(ggplot2)
theme_set(theme_light())
penguins <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/
```

```
penguins <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/
penguins <-
penguins %>%
filter(!is.na(bill_length_mm))
```

Does gender affect physical features?

```
## # A tibble: 2 x 5
    sex
         bill_length_mm bill_depth_mm flipper_length_mm body_mass_g
                                 <dbl>
                                                   <dbl>
##
    <chr>
                   <dbl>
                                                                <dbl>
## 1 female
                     42.1
                                   16.4
                                                     197.
                                                                3862.
## 2 male
                     45.9
                                   17.9
                                                     205.
                                                                4546.
```

There isn't much difference in their physical features except when it comes to body mass, male are heavier

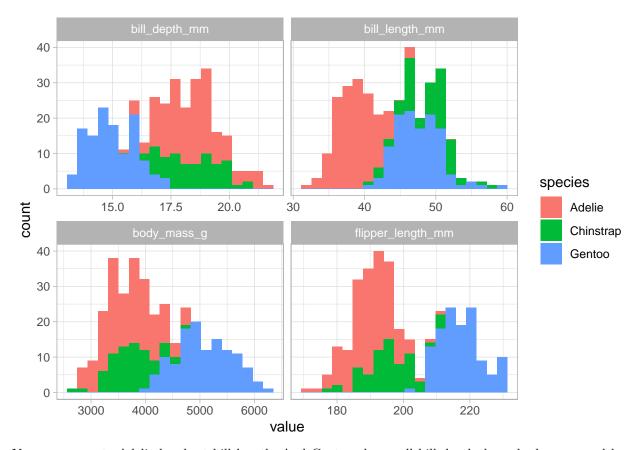
Does species affect physical features?

```
## # A tibble: 3 x 5
               bill_length_mm bill_depth_mm flipper_length_mm body_mass_g
##
     species
     <chr>
                         <dbl>
                                        <dbl>
                                                           <dbl>
                                                                        <dbl>
##
## 1 Adelie
                          38.8
                                         18.3
                                                            190.
                                                                        3701.
## 2 Chinstrap
                          48.8
                                         18.4
                                                            196.
                                                                        3733.
## 3 Gentoo
                          47.5
                                         15.0
                                                            217.
                                                                        5076.
```

Gentos seem much heavier

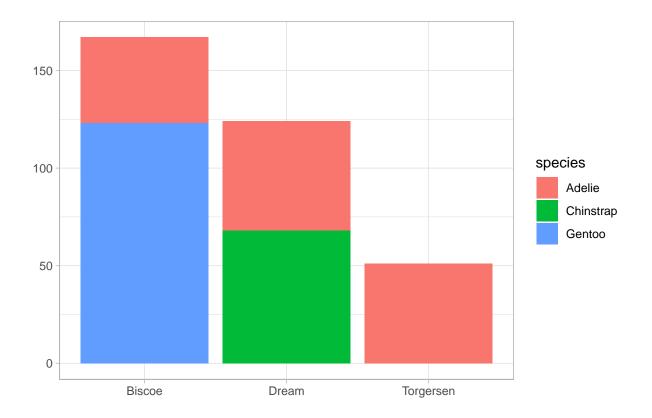
How to seperate species from one another?

```
# Try other way to draw the facet
penguins %>%
  pivot_longer(
    cols = bill_length_mm: body_mass_g,
    names_to = "metric",
    values_to = "value"
) %>%
  ggplot(aes(value , fill = species)) +
  geom_histogram(bins = 20) +
  facet_wrap(~metric, scale='free_x')
```



You can separate Adelie by short bill length, And Gentoos by small bill depth, large body mass and long flipper length

Does certain islands have certain species?



Yes, but they all have adelies in common