My First Bookdown

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Contents

Chapter 1

Introduction

This example book will show how to use bookdown to put together digital books. We are going to use some work we did on the Palmer Penquins dataset for this project.

Chapter 2 is about making some exploratory plots.

Chapter 2

Palmer Penguins

Chapter 3

Palmer Penguins

3.1 Subtitle

3.1.1 Subheading

Today we are going to work with the **Palmer Penguins** dataset from the `palmerpenguins` package. Install the package as follows:

```
#Eval = False means that it does not get run every time the document is knitted
#echo = TRUE  means it shows up but that it is not evaluated
install.packages("palmerpenguins") # add a comment
```

Figure 3.1: Logo of the palmerpenguins R package

We are writing this in R Markdown because you can do all sorts of things in R Markdown, such as embedding code in text: 2 + 2 = 4 #Shows up in your document as 2 + 2 = 4 because you but the ‘ around the code that you wanted to execute

```
#this runs the chunk but doesn't show the weird message every time you load it
library(palmerpenguins)
```

```
## Warning: package 'palmerpenguins' was built under R version 4.0.4
```

```
library(tidyverse)
```

```
## Warning: package 'tibble' was built under R version 4.0.4
```

```
## Warning: package 'tidyr' was built under R version 4.0.4
```

```
## Warning: package 'dplyr' was built under R version 4.0.4
```

3.2 The dataset

Let's take a look at the datasets available in the `palmerpenguins` package:

```
head(penguins)
```

```
## # A tibble: 6 x 8
##   species island bill_length_mm bill_depth_mm flipper_length_~ body_mass_g sex
##   <fct>   <fct>           <dbl>         <dbl>            <int>       <int> <fct>
## 1 Adelie  Torge~           39.1          18.7              181        3750 male
## 2 Adelie  Torge~           39.5          17.4              186        3800 fema~
## 3 Adelie  Torge~           40.3          18                195        3250 fema~
## 4 Adelie  Torge~           NA            NA                 NA          NA <NA>
## 5 Adelie  Torge~           36.7          19.3              193        3450 fema~
## 6 Adelie  Torge~           39.3          20.6              190        3650 male
## # ... with 1 more variable: year <int>
```

> "Capturing and measuring penguins was a lot of fun!" (Anonymous technician) #formatted in a different way so that it clearly looks like a quote

3.2.1 Penguin measurements

#This makes it into a bulletted list

The table `penguins` includes the following measurements:

1. Bill length;

2. Bill depth;
3. Flipper length;
4. Body mass. #a number 1 then a . signals that this is the beginning of a numbered list #even if you put all 1's in the list in the knitted document they will show up correctly

3.2.1.1 Relationship between flipper length and bill length by species

We are going to make a plot showing how flipper length and bill length vary in different species of penguin:

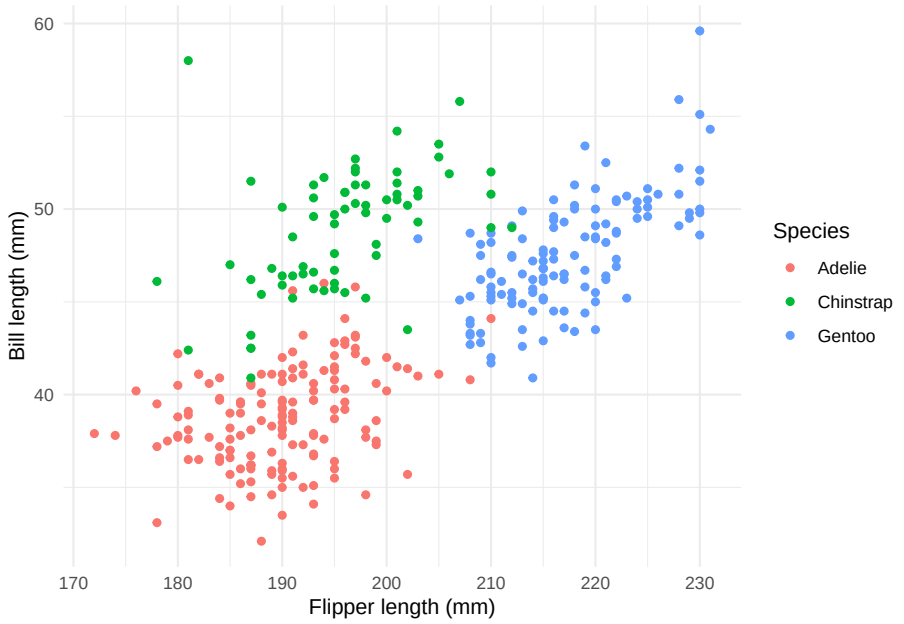

Figure 3.2: My plot

For more information about the `palmerpenguins` package, visit their website. #this is how you embed a link

This is a paragraph.

This is a new paragraph.

Referencing Figure 3.1 and Figure 3.2

Building our own database: -do it through R sql lite -eval = false for the chunks that build the database and echo = true -all chunks should have different names, unless they are unnamed