

PSY6422 Quarto Practice

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1 Introduction

2 Including an Image

3 Introduction

This report demonstrates basic Quarto functionality for data analysis and visualisation. It includes an image, loads a dataset from the web, and produces a scatter plot and a summary table using R and the tidyverse.

4 Including an Image

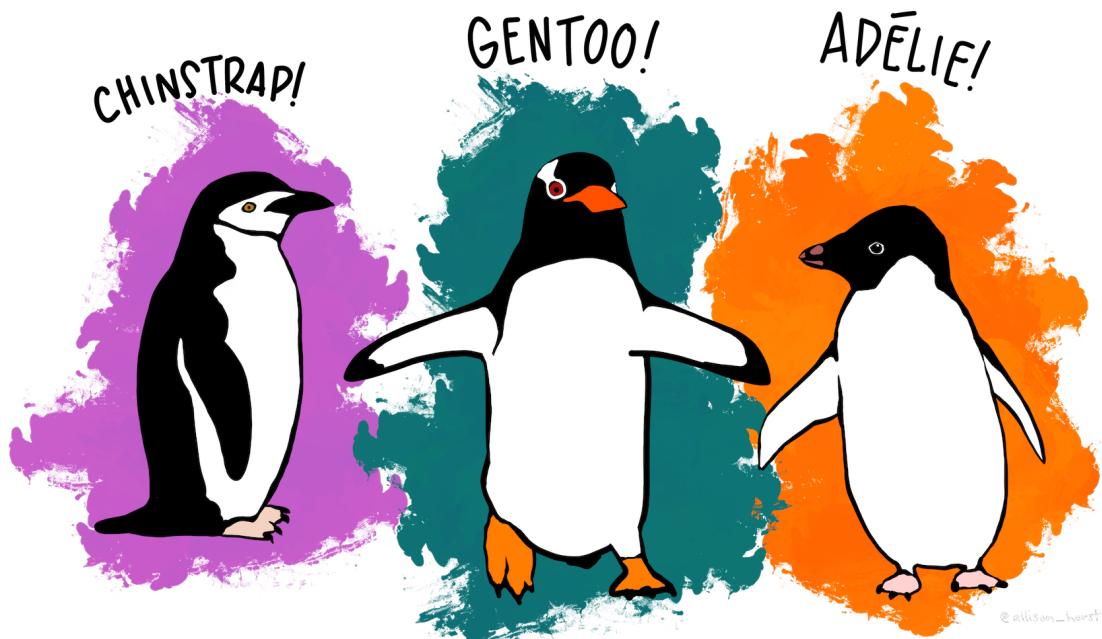


Figure 1: Penguins at Palmer Station

5 Data

```
library(tidyverse)
penguins <- read_csv("https://raw.githubusercontent.com/allisonhorst/palmerpenguins/master/in
penguins <- drop_na(penguins)
head(penguins)

# A tibble: 6 x 8
  species island   bill_length_mm bill_depth_mm flipper_length_mm body_mass_g
  <chr>   <chr>           <dbl>          <dbl>            <dbl>        <dbl>
1 Adelie  Torgersen      39.1          18.7            181        3750
2 Adelie  Torgersen      39.5          17.4            186        3800
3 Adelie  Torgersen      40.3          18              195        3250
4 Adelie  Torgersen      36.7          19.3            193        3450
5 Adelie  Torgersen      39.3          20.6            190        3650
```

```
6 Adelie Torgersen      38.9      17.8      181      3625
# i 2 more variables: sex <chr>, year <dbl>
```

6 Visualisation

```
ggplot(penguins, aes(x = bill_length_mm, y = bill_depth_mm, color = species)) +
  geom_point() +
  labs(
    title = "Bill Length vs Bill Depth by Species",
    x = "Bill Length (mm)",
    y = "Bill Depth (mm)",
    color = "Species"
  ) +
  theme_minimal()
```

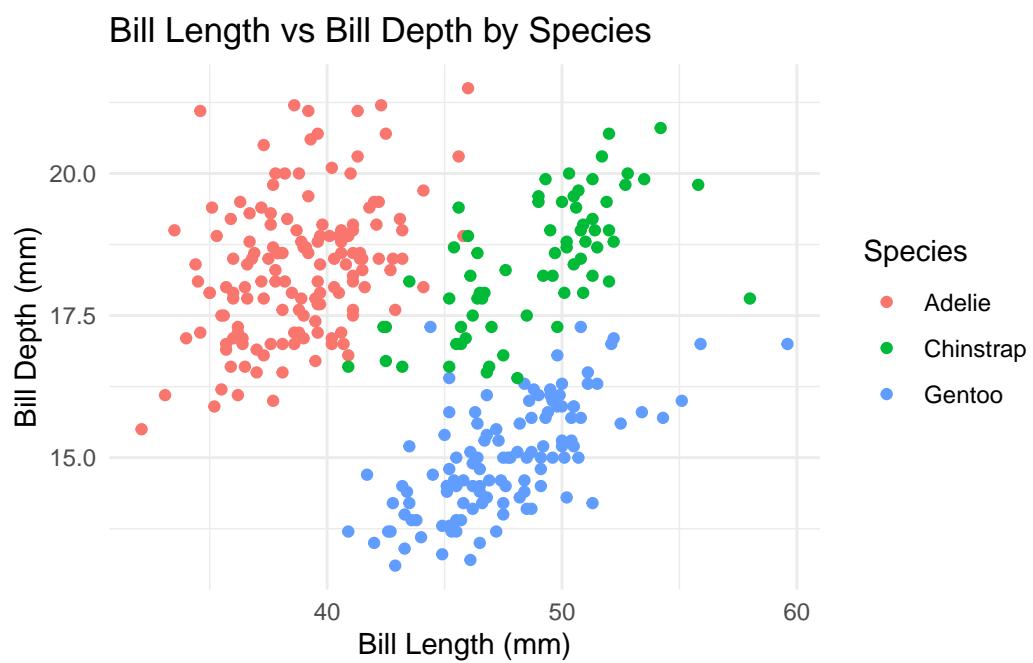


Figure 2: Bill length vs bill depth by species.

7 Summary Table

```
penguins %>%
  group_by(species) %>%
  summarise(mean_bill_length = mean(bill_length_mm, na.rm = TRUE)) %>%
  knitr::kable()
```

Table 1: Mean bill length (mm) by species.

species	mean_bill_length
Adelie	38.82397
Chinstrap	48.83382
Gentoo	47.56807

8 Conclusion