Practice

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We are practicing using quarto and this is a random abstract I wrote.

Introduction

We examine the average bill length of penguins using R Core Team (2022). Another way to do citations is (R Core Team 2022). We are gonna use Gelfand (2022) in Paper 1. Tidyverse has a lot of cool fuctions like filter(), arrange(), and many more (Wickham et al. 2019). We have a graph too at Figure 1 that displays this.

Quarto

```r
library(tidyverse)
palmerpenguins::penguins |>
  select(species, bill_length_mm) |>
  group_by(species) |>
  summarize(the_mean = mean(bill_length_mm, na.rm = TRUE))
```

```
# A tibble: 3 x 2
  species    the_mean
  <fct>         <dbl>
1 Adelie         38.8
2 Chinstrap      48.8
3 Gentoo         47.5
```

```r
palmerpenguins::penguins |>
  select(island, species, bill_length_mm) |>
  group_by(island, species) |>
  summarize(the_median = median(bill_length_mm, na.rm = TRUE))
```

```
# A tibble: 5 x 3
# Groups:   island [3]
  island    species   the_median
  <fct>     <fct>          <dbl>
1 Biscoe    Adelie          38.7
2 Biscoe    Gentoo          47.3
3 Dream     Adelie          38.6
4 Dream     Chinstrap       49.6
5 Torgersen Adelie          38.9
```
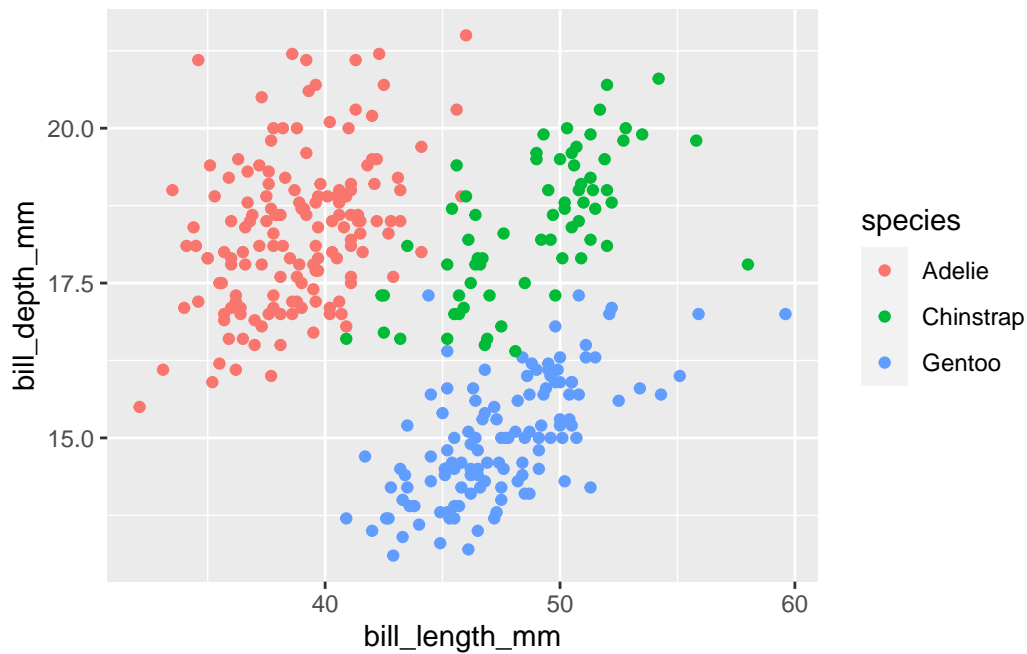

Figure 1: Positive relationship between bill length and depth in penguins.

References

Gelfand, Sharla. 2022. *Opendatatoronto: Access the City of Toronto Open Data Portal.* https://CRAN.R-project.org/package=opendatatoronto.

R Core Team. 2022. *R: A Language and Environment for Statistical Computing.* Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.

Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.