Hello, Penguins!

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1 Introduction

1.1 Data

For this analysis we'll use the penguins dataset from palmerpenguins package.(Gorman, Williams, and Fraser 2014)

```
library(tidyverse)
library(ggthemes)
library(palmerpenguins)
library(gt)

glimpse(penguins)
```

Rows: 344
Columns: 8

\$ species <fct> Adelie, Adelie, Adelie, Adelie, Adelie, Adelie, Adelie

1.2 Species

Figure 1 is a scatter plot of species of penguins.

```
ggplot(
  penguins,
  aes(
    x = bill_length_mm, y = bill_depth_mm,
    color = species, shape = species
)
) +
  geom_point() +
  theme_minimal() +
  scale_color_colorblind() +
  labs(x = "Bill length (mm", y = "Bill depth (mm)")
```

Warning: Removed 2 rows containing missing values (`geom_point()`).

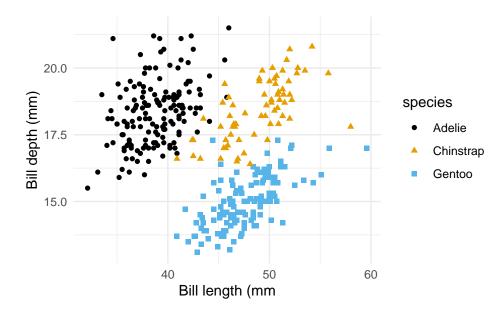


Figure 1: A scatterplot of penguins' bill depth and length, colored by species of penguins.

1.3 Penguins

Table 1 shows the first 10 penguins from dataset.

```
penguins |>
  slice_head(n = 10) |>
  select(species, island, bill_length_mm,bill_depth_mm) |>
  gt()
```

Table 1: First 10 penguins

species	island	$bill_length_mm$	$bill_depth_mm$
Adelie	Torgersen	39.1	18.7
Adelie	Torgersen	39.5	17.4
Adelie	Torgersen	40.3	18.0
Adelie	Torgersen	NA	NA
Adelie	Torgersen	36.7	19.3
Adelie	Torgersen	39.3	20.6
Adelie	Torgersen	38.9	17.8
Adelie	Torgersen	39.2	19.6
Adelie	Torgersen	34.1	18.1

2 Analysis

2.1 Modeling results

References

Gorman, Kristen B., Tony D. Williams, and William R. Fraser. 2014. "Ecological Sexual Dimorphism and Environmental Variability Within a Community of Antarctic Penguins (Genus Pygoscelis)." Edited by André Chiaradia. *PLoS ONE* 9 (3): e90081. https://doi.org/10.1371/journal.pone.0090081.