

My Penguins Report!

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```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.2.0      v readr      2.1.6
v forcats    1.0.1      v stringr    1.6.0
v ggplot2    4.0.1      v tibble     3.3.1
v lubridate  1.9.4      v tidyr      1.3.2
v purrr      1.2.1
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
penguins <- read_csv("penguins.csv")
```

Rows: 344 Columns: 8

```
-- Column specification -----
Delimiter: ","
chr (3): species, island, sex
dbl (5): bill_length_mm, bill_depth_mm, flipper_length_mm, body_mass_g, year
```

i Use `spec()` to retrieve the full column specification for this data.

i Specify the column types or set `show_col_types = FALSE` to quiet this message.

Introduction

This report is about **three** species of penguins

1. Adele

2. Gentoo
3. Chinstrap

You'll learn *so* much about the penguins. I hope you're ready!

Results

Here is a chart showing the average bill length for penguins, grouped by island and sex.

```
penguin_bill_length_by_island_and_sex <-  
  penguins |>  
  drop_na(sex) |>  
  group_by(island, sex) |>  
  summarize(mean_bill_length = mean(bill_length_mm))
```

``summarise()`` has regrouped the output.
i Summaries were computed grouped by island and sex.
i Output is grouped by island.
i Use ``summarise(.groups = "drop_last")`` to silence this message.
i Use ``summarise(.by = c(island, sex))`` for per-operation grouping
(``?dplyr::dplyr_by``) instead.

```
ggplot(  
  data = penguin_bill_length_by_island_and_sex,  
  mapping = aes(  
    x = island,  
    y = mean_bill_length,  
    fill = sex  
  )  
) +  
  geom_col(position = "dodge")
```

