

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 -----
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 non-conflicting
```

```
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")
```

