

Paper 1 [working title]*

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Abstract

First sentence is super broad and motivational. Second sentence is more specific on what I did. Third sentence. Fourth sentence is something about our findings.

1 Introduction

First paragraph is first sentence from abstract but add more water.

Second paragraph is about what was done and what was found.

Third paragraph is about implications (final sentence but add water)

The remainder of this paper is: Section 2 explains the data. Section /a@ref(results) covers results ...

2 Data

Paragraph or two introducing the dataset broadly.

Then show an extract of the dataset (Table /a@ref(results)(tab:dataextract)).

```
library(tidyverse)
library(knitr)

## Warning: package 'knitr' was built under R version 4.1.2
toronto_poll_data <- read_csv(here::here("inputs/data/toronto_poll_data.csv"))

## Rows: 1054 Columns: 25
## -- Column specification -----
## Delimiter: ","
## chr   (8): ADDRESS, APPLICATION_FOR, BALLOTS_NEEDED_TO_PROCEED_LBL, PASS_RAT...
## dbl   (14): _id, BALLOTS_BLANK, BALLOTS_CAST, BALLOTS_DISTRIBUTED, BALLOTS_IN...
## date   (3): CLOSE_DATE, MORATORIUM_DATE, OPEN_DATE
##
## 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.
toronto_poll_data |>
  select(POLL_RESULT, RESPONSE_RATE_MET) |>
  slice(1:10) |>
  kable(
    caption = "First ten rows of a dataset of economic indicators for"
```

*Code and data are available at: https://github.com/pengwinny/starter_folder.

Table 1: First ten rows of a dataset of economic indicators for Australia, Ethiopia, India, and the US

Poll Result	Response Rate
In Favour	Yes
In Favour	Yes
In Favour	Yes
Response Rate Not Met	No
In Favour	Yes
Response Rate Not Met	No
Response Rate Not Met	No
In Favour	Yes
Response Rate Not Met	No
In Favour	Yes

```
Australia, Ethiopia, India, and the US",
col.names = c("Poll Result", "Response Rate"),
digits = 1,
booktabs = TRUE,
linesep = ""
)
```

Our data is of penguins (Figure 1).

```
## Warning: It is deprecated to specify `guide = FALSE` to remove a guide. Please
## use `guide = "none"` instead.
```

Talk more about it.

Also bills and their average (Figure 2). (Notice how you can change the height and width so they don't take the whole page?)

```
## Warning: It is deprecated to specify `guide = FALSE` to remove a guide. Please
## use `guide = "none"` instead.
```

Talk way more about it.

3 Model

$$Pr(\theta|y) = \frac{Pr(y|\theta)Pr(\theta)}{Pr(y)} \quad (1)$$

Equation (1) seems useful, eh?

Here's a dumb example of how to use some references: In paper we run our analysis in R (R Core Team 2020). We also use the `tidyverse` which was written by Wickham et al. (2019) If we were interested in baseball data then Friendly et al. (2020) could be useful.

We can use maths by including latex between dollar signs, for instance θ .

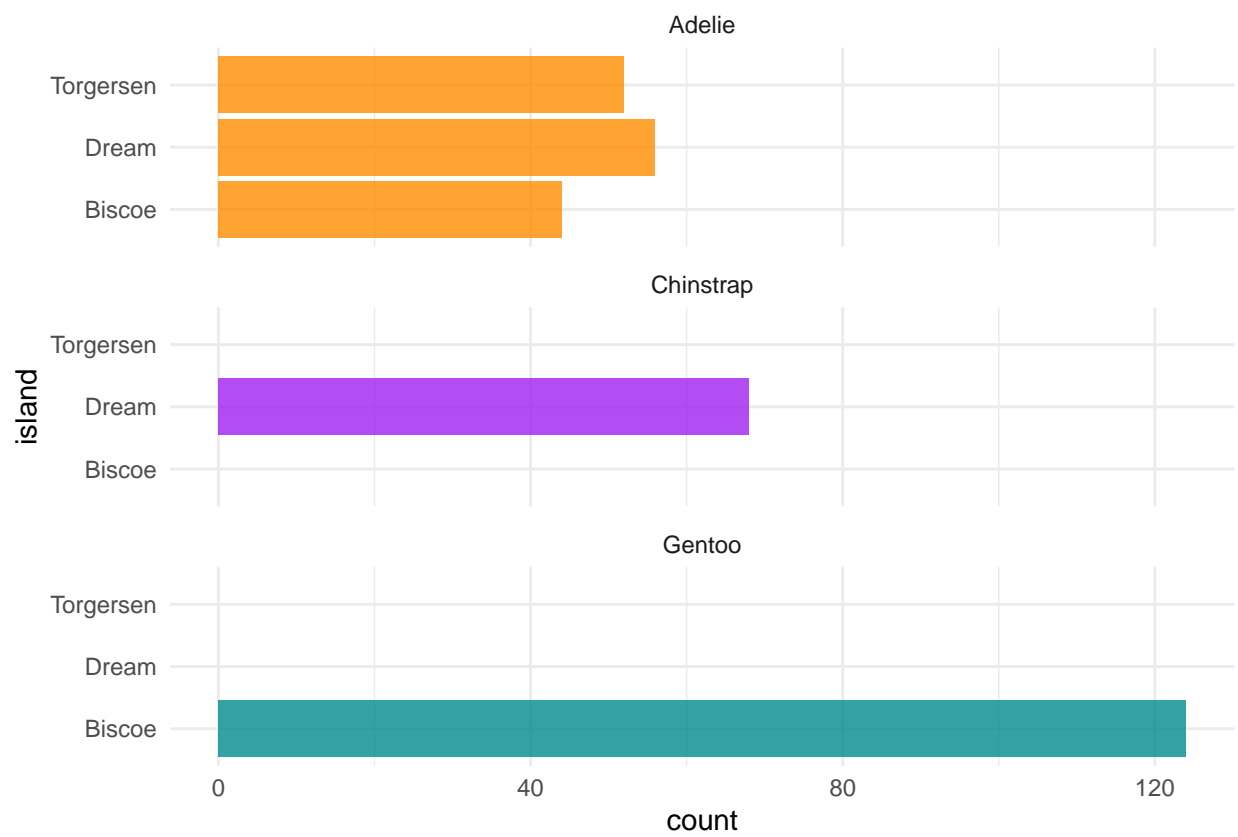


Figure 1: Bills of penguins

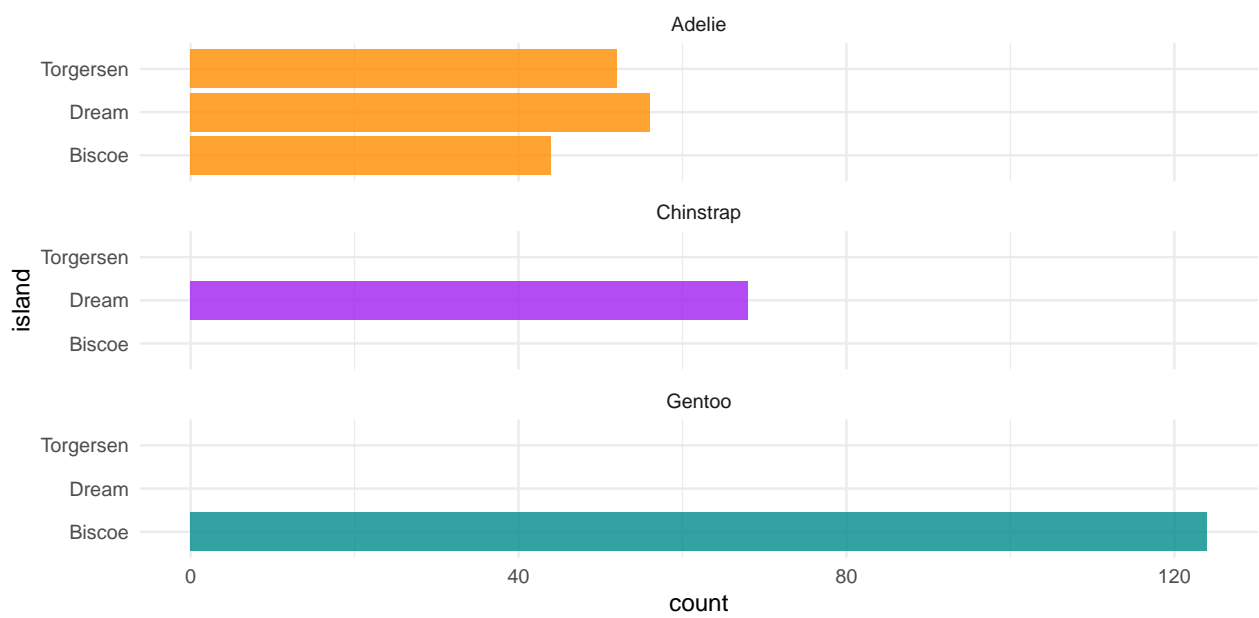


Figure 2: More bills of penguins

4 Results

5 Discussion

5.1 First discussion point

If my paper were 10 pages, then should be at least 2.5 pages. The discussion is a chance to show off what you know and what you learnt from all this.

5.2 Second discussion point

5.3 Third discussion point

5.4 Weaknesses and next steps

Weaknesses and next steps should also be included.

Appendix

A Additional details

References

- Friendly, Michael, Chris Dalzell, Martin Monkman, and Dennis Murphy. 2020. *Lahman: Sean ‘Lahman’ Baseball Database*. <https://CRAN.R-project.org/package=Lahman>.
- R Core Team. 2020. *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 Golemund, et al. 2019. “Welcome to the tidyverse.” *Journal of Open Source Software* 4 (43): 1686. <https://doi.org/10.21105/joss.01686>.