Paoer1*

TBD

TBD

29   2021

Abstract

First sentence. Second sentence. Third sentence. Fourth sentence.

1 Introduction

2 Data

Our data is of penguins (Figure 1) and we analyzed using R (R Core Team 2020) and the 'ggplot2' package(Wickham 2016). We build on (Donders et al. 2020) and (COVID, Group, and others 2020) to analyze the data.

```
## Warning: `summarise_each_()` is deprecated as of dplyr 0.7.0.
## Please use `across()` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_warnings()` to see where this warning was generated.
```

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?)

Talk way more about it.

3 Model

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

Equation (1) seems useful, eh?

---

*Code and data are available at: LINK.

Table 1: Count of entries by year for 2017-2019

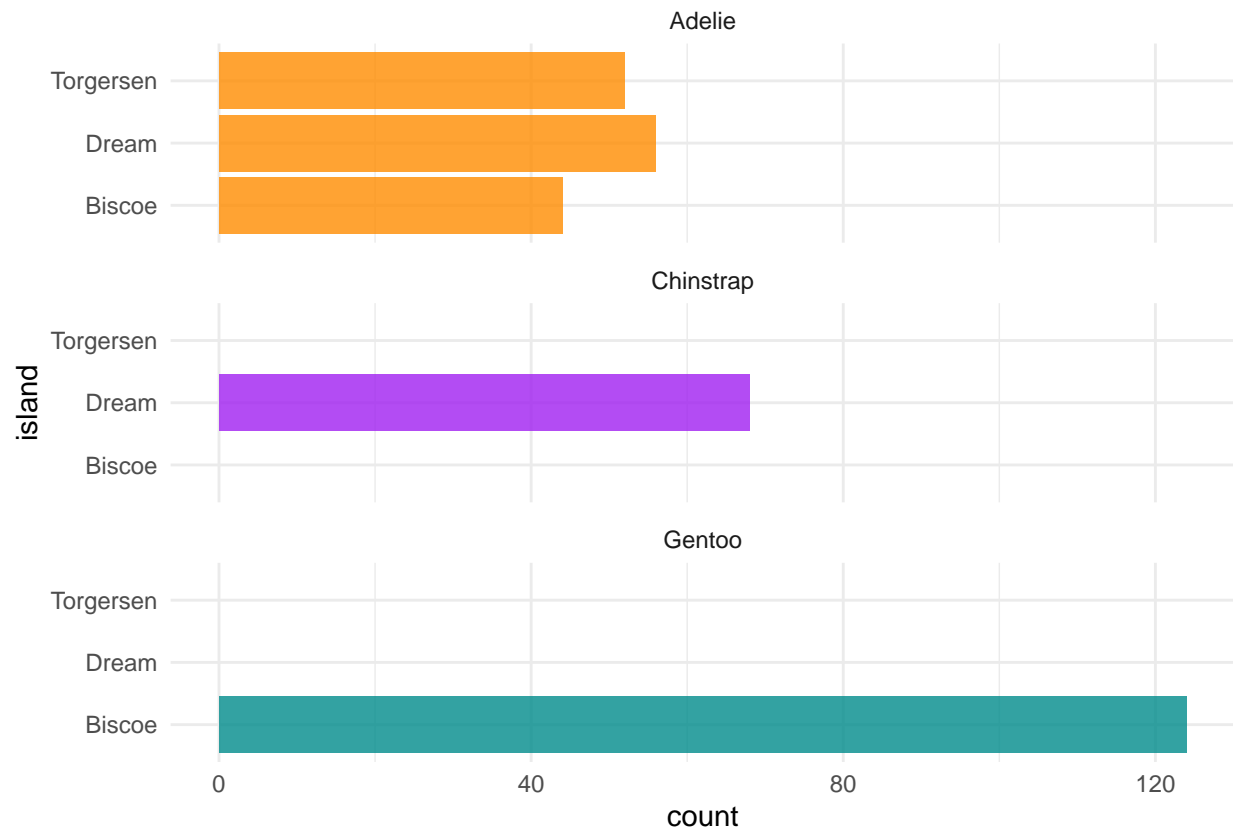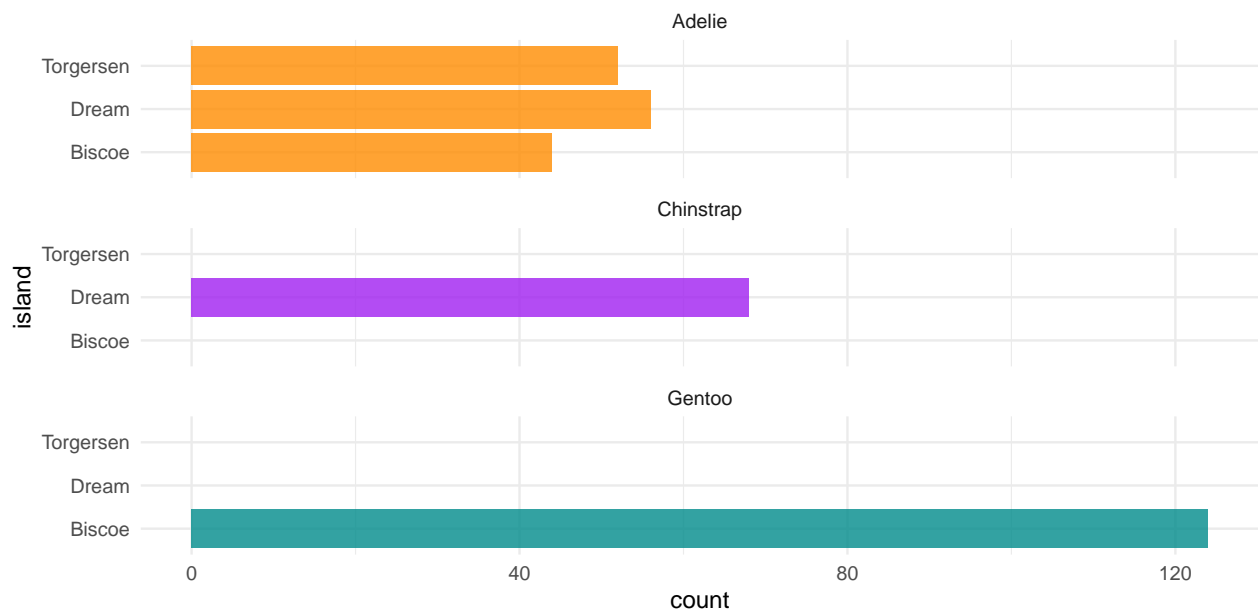| Disease	Age 0-19	Age 20-39	Age 40-59	Age 60-79	Age 80+	Total
Chlamydia	1839	10440	1487	117	0	13883
Gonorrhea	274	3390	805	74	1	4544
Influenza	485	335	425	718	703	2666

Figure 1: Bills of penguins

Figure 2: More bills of penguins

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.

4 Results

5 Discussion

5.1 First discussion point

If my paper were 10 pages, then should be 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

References

COVID, Gemelli Against, Post-Acute Care Study Group, and others. 2020. "Post-COVID-19 Global Health Strategies: The Need for an Interdisciplinary Approach." *Aging Clinical and Experimental Research*, 1.

Donders, Francesca, Risa Lonnée-Hoffmann, Aristotelis Tsiakalos, Werner Mendling, José Martinez de Oliveira, Philippe Judlin, Fengxia Xue, Gilbert G. G. Donders, and ISIDOG COVID-19 Guideline Workgroup. 2020. "ISIDOG Recommendations Concerning COVID-19 and Pregnancy." *Diagnostics* 10 (4). https://doi.org/10.3390/diagnostics10040243.

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. 2016. *Ggplot2: Elegant Graphics for Data Analysis.* Springer-Verlag New York. https://ggplot2.tidyverse.org.

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