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# Abstract

Write your abstract

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# Introduction

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Examples of some citation formats:

(Darwin [1859](#ref-Darwin1859))

Bumpus ([1898](#ref-Bumpus1898))

(Darwin [1859](#ref-Darwin1859); Bumpus [1898](#ref-Bumpus1898))

(e.g., Johnston et al. [1972](#ref-Johnston1972))

# Methods

In equation (1), and are the mean of the samples of sparrows that died and lived, respectively. Similarly, and are the sample sizes of sparrows that died and lived, and is the pooled sample mean, which is calculated as follows,

# Results

Bumpus’ data included 72 sparrows that lived and 64 sparrows that died. The mean total length of living sparrows was 158.71 mm, and the mean total length of dead sparrows was 160.48 mm. The two sample t-test revealed a t-statistic of -2.99, which corresponds to a p-value of 0.00167.

Figure 1 shows the difference between total length in sparrows that survived versus sparrows that died. Overall, dead sparrows were 1.78 mm longer than living sparrows, and ranged between 152 and 163 mm. Living sparrows ranged between 153 and 160.25 mm (Figure 1).

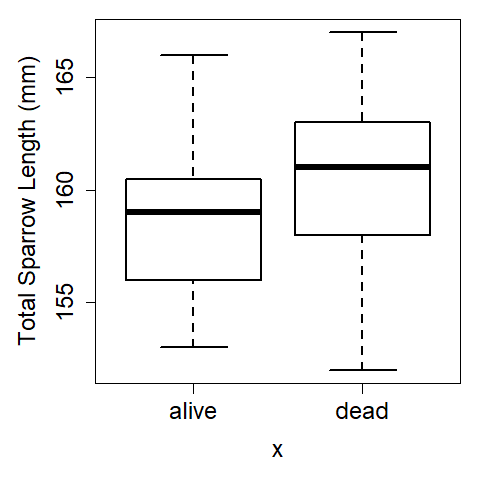


Figure 1: Box plot of the total lengths of live and dead sparrows following a snowstorm in Providence, RI, as originally collected by Hermon Bumpus. The central horizontal line shows median values. Boxes and whiskers show inter-quartile ranges and extreme values, respectively.

# Discussion

Write your discussion

# References

Bumpus, H. C. 1898. Eleventh lecture. The elimination of the unfit as illustrated by the introduced sparrow, *Passer domesticus*. (A fourth contribution to the study of variation.). Biological Lectures: Woods Hole Marine Biological Laboratory 209–225.

Darwin, C. 1859. The Origin of Species. Penguin, New York.

Johnston, R. F., D. M. Niles, and S. A. Rohwer. 1972. Hermon Bumpus and natural selection in the House Sparrow *Passer domesticus*. Evolution 26:20–31.

# Appendix

Extra information.