

Assignment 2.3 – Basic Data Analysis

Create an R Markdown document that outputs either an HTML or DOC file.

- a. Download the ElephantsMF.csv data file associated with the assignment. This data set is from Kaggle user Mostafa Elseidy <https://www.kaggle.com/mostafaelseidy/elephantsmf>. According to the details, this data set represents data on 288 African elephants that are greater than 2 years old and are a part of the publication referenced below. Load this data set into your R Markdown file.
- b. Answer the following using a line of code and a written explanation.
 - b.1. What are the columns in this data set and what data class are each?
 - b.2. What is the mean and standard deviations of the heights of elephants in the data set?
 - b.3. What is age range of the elephants in the data set? Are there more young or old elephants in the data set, or is the representation pretty even? (Hint: check the quartiles and use `stripchart()` to look at the distribution.)
- c. Is there a height difference between male and female elephants in this data set? How can you tell?
- d. Is there a relationship between height and age of these elephants? How can you tell?

Turn in your Rmd file.

Data reference:

Data are from Phyllis Lee, Stirling University, and are related to Lee, P., et al. (2013), “Enduring consequences of early experiences: 40-year effects on survival and success among African elephants (*Loxodonta africana*),” *Biology Letters*, 9: 20130011.