Intermediate R Workshop Homeworks

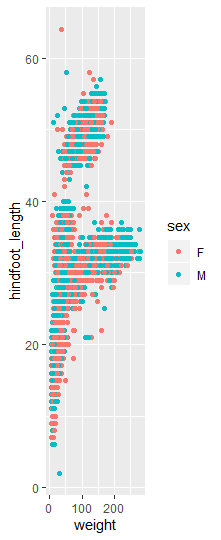
09/10/2020

## Questions

## Give your solutions in R mark down output form, word document or pdf document

## Read your data called portal\_data\_joined.csv and call it surveys.

1. Select plot\_id,species\_id and weight from surveys.
2. Subset data to include animals collected before 1995, and retain the columns year, sex, and weight.
3. Create a new data frame from the surveys data that meets the following criteria: contains only the species\_id column and a column that contains values that are half the hindfoot\_length values (e.g. a new column hindfoot\_half). In this hindfoot\_half column, there are no NA values and all values are < 30.
4. Find the min and the mean weight for the animals grouped by sex and species\_id. Arrange the mean weight in descending order and print the first 15 rows.
5. How many animals were caught in each plot\_type surveyed?
6. Find the mean, min, and max hindfoot length for each species (using species\_id). Also add the number of observations (hint: see ?n).
7. What was the heaviest animal measured in each year? Return the columns year, genus, species\_id, and weight.
8. Make the following plot from survey data



For more details on using R Markdown see <http://rmarkdown.rstudio.com>. To learn more about dplyr and tidyr after the workshop, you may want to check out this <https://github.com/rstudio/cheatsheets/raw/master/data-transformation.pdf> and <https://github.com/rstudio/cheatsheets/raw/master/data-import.pdf>