

Stat 462: Lab 3

For this lab, do the following exercises from DAAG:

- 2.3
- 2.5
- 2.10 (Animals is in the MASS library)
- 2.13 (Stat 862 students only)

In addition, locate a data set of interest to you and perform a preliminary exploratory data analysis, noting any interesting or problematic features. A Google search for “Open Data” should provide lots of sources (e.g. <http://data.gc.ca>). If you uncover an apparent relationship between two variables, comment on the relationship and in what circumstances (if any) a predictive model would be possible. If you do not uncover an apparent relationship between two variables, comment on the distribution of the one variable that is most interesting to you – is there evidence of skewness, clustering, etc? Hypothesize about the mechanism that could have led to such a distribution. Limit your analysis to two pages.

You are free to use either R or SAS to answer each question. I have created SAS datasets from the R datasets you will need for 2.3, 2.5, 2.10 and 2.13. These datasets were created using the `foreign` package in R. They are attached to this pdf. To import each dataset, run the corresponding `.sas` file.

For all questions, provide the code you used as well as any output asked for and clear, thorough explanations where necessary. Do not provide output that was not requested in the question.