# Assumptions

**Methods in Experimental Ecology II (PCB 6468)**
**Exercise 1 - Assumptions**
**Due January 29, 2018**

# Exercise 1

A highly regarded scientist collected information on body mass (g) and body length (cm) of an endangered bird endemic of Florida. Please use the data generated by one run of the R script provided in the class website to evaluate if there is any evidence of differences in mass among birds from different locations. Use ALL the information provided in the file.

1. Inspect and plot *your* data (publication quality)
2. State *your* scientific hypothesis
3. Select and justify a statistical model to test *your* hypothesis using the data
4. Plot *your* best predictive model along with its 95% CI
5. Verify the assumptions of the model *you* selected using plots
6. Interpret *your* results
7. Submit answers as a single page word document.


**NOTE:** Evaluate other students and enter score in online form