Chapter 6, Linear Normal Models

Properties:

- As GLM
- Maximum Likelihood Estimate (MLE)
- Least Square Estimate
- Deviance
- Hypothesis testing

Models:

- Multiple linear regression
 - Outlier detection / influential observation
 - Collinearity / multicollinearity
- Analysis of variance (ANOVA)
 - One factor ANOVA
 - Two factor ANOVA
- Analysis of covariance
- General linear model

House sparrows questions



- Are birds heavier in summer then in winter?
- Are birds relatively heavier on the outer islands in summer then on the inner islands?
- Body mass modeled with tarsus length, wing length, bill length and bill depth.
- Body mass modeled with tarsus length, wing length, bill length, bill depth and season.
- Are birds heavier on the outer islands when we account for size (tarus, wing length, etc.) ?