Outline - Summarizing Univariate Data

1. Questions about \texttt{R}?
2. One categorical variable - tables
3. Shapes of Distributions (histograms)
4. Measures of Center (mean, median)
5. Measures of Variation (mad, variance, standard deviation, IQR, box and whisker plots)

Homework - due Monday, October 15

1. Read Section 2.2 of the text.
2. Do problems 2.3, 2.4, 2.5, 2.7, 2.9, 2.12, 2.13 of the text.

Useful R

\begin{verbatim}
> table(iris$Species)
> hist(faithful$eruptions)
> library(lattice)
> histogram(faithful$eruptions)
> mean(faithful$eruptions)
> median(faithful$eruptions)
> quantile(faithful$eruptions)
> boxplot(faithful$eruptions)
> bwplot(faithful$eruptions)
> var(faithful$eruptions)
> sd(faithful$eruptions)
> IQR(faithful$eruptions)
> mad(faithful$eruptions,constant=1)
> mad(faithful$eruptions,constant=1,center=mean(faithful$eruptions))
> games=read.csv('http://www.calvin.edu/~stob/data/gl.csv')  # all 2003 baseball games
> names(games)
\end{verbatim}

Temporary Course Website

http://www.calvin.edu/~stob/M232/