Basic Exploration of Numeric Data Organized by 1 or 2 Groups

Data loaded into R workspace

Data is comprised of a 1 group
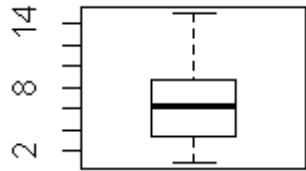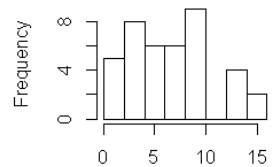(i.e., size of steelhead in Lake Erie, students in 1 class)

Data is comprised of a 2+ groups
(i.e., size of steelhead AND pike in Lake Erie)

Visualize Raw Data

Summary Stats
mean()   median()
sd()   var()
summary()   range()
min()   max()

Histogram
hist()

Boxplot
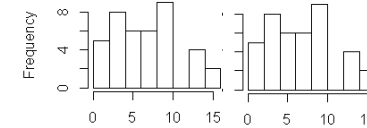boxplot()

Visualize Raw Data

Boxplot
boxplot()
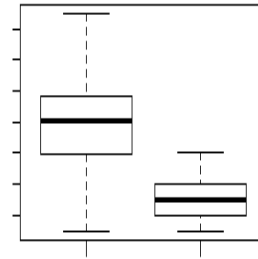
Visualize Data split by group

Subset/split data
subset()

2 Histograms
par(); hist()

Summarize by group
tapply(…, FUN = *a summary function*)

Summary Stats By Group

mean()   median()
sd()   var()
summary()   range()
min()   max()

Visualize Summarized data