Measures of Center

Mean
Median
Mode
Midrange

Ages of Oscar Winning Actors from 1975 to 2004

"A" denotes female actors.
"B" denotes male actors.

Measures of Spread/ Variability

Variance
Standard Deviation
Spread
Range
IQR

Vocab for Graph Write-ups

S(hape)   roughly symmetric
     skewed left/right
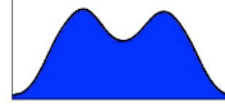
O(utliers)
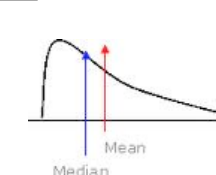
C(enter)   mean
   median
   mode
   midrange
   spread
   range
   standard deviation
   IQR
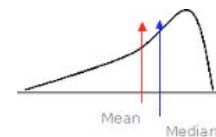   variance

S(pread)

Boxplots

Minimum
Q1
Median
Q3
Maximum

We make up the 5 number summary.

If you show outliers, we call that a modified boxplot.

Your calculator makes both regular and modified boxplots.

Normal Curves

z scores: $z = \dfrac{\text{score} - \text{mean}}{\text{standard deviation}}$

Empirical Rule - 68/95/99.7

%iles - "on down"
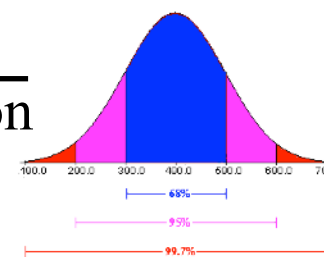
Vocab/Extras

Resistant Statistics

Outliers   observation $< Q1 - 1.5$ IQR
     observation $> Q3 + 1.5$ IQR