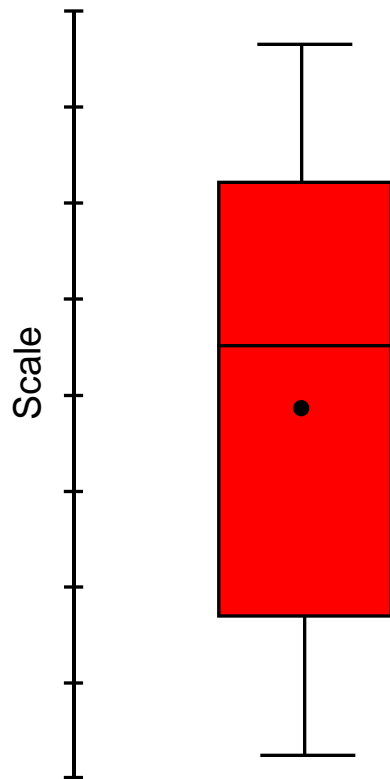


Box Plot

A visual representation of the mean and various quartiles of data

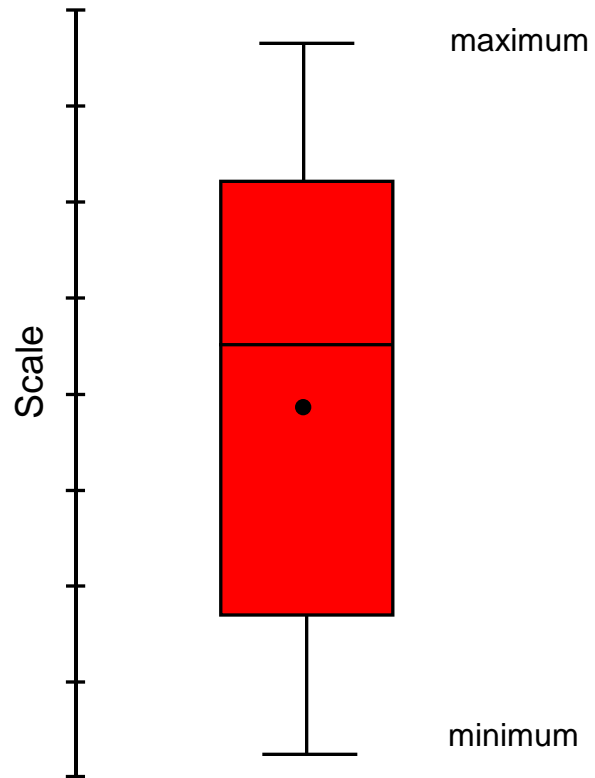


Box Plot - Definition

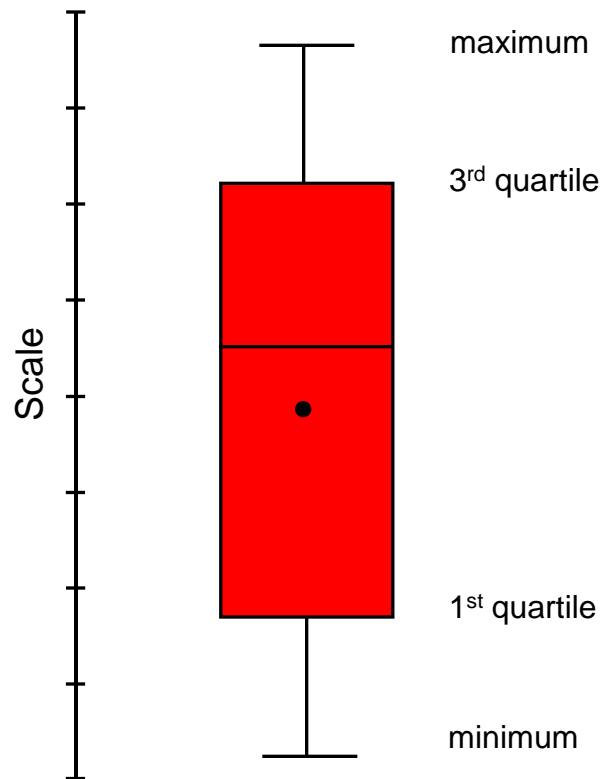




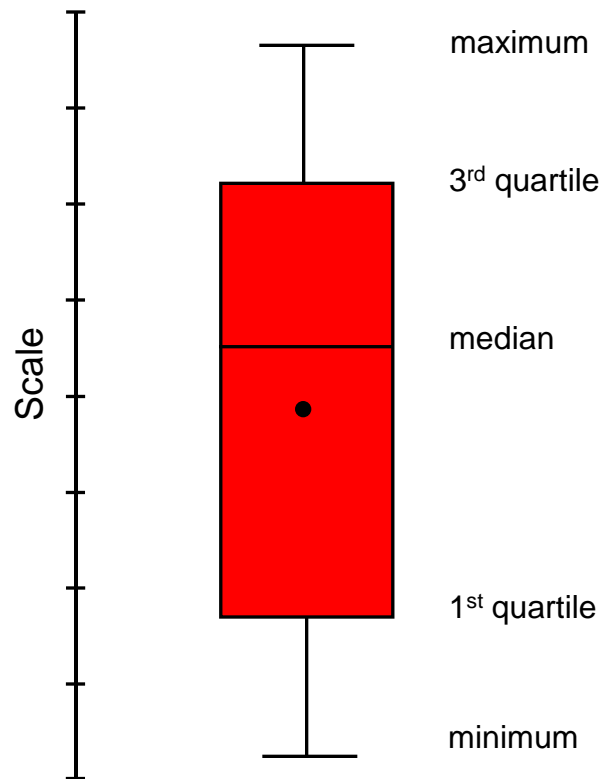
Box Plot - Definition



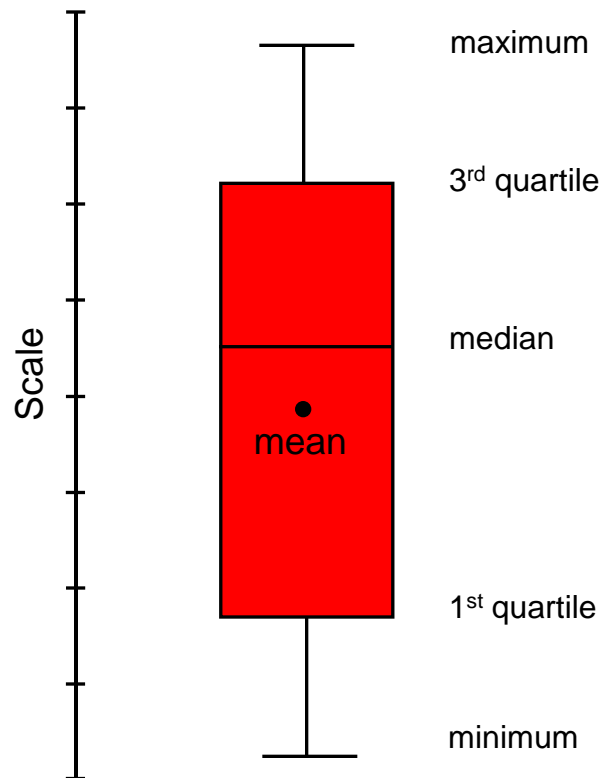
Box Plot - Definition

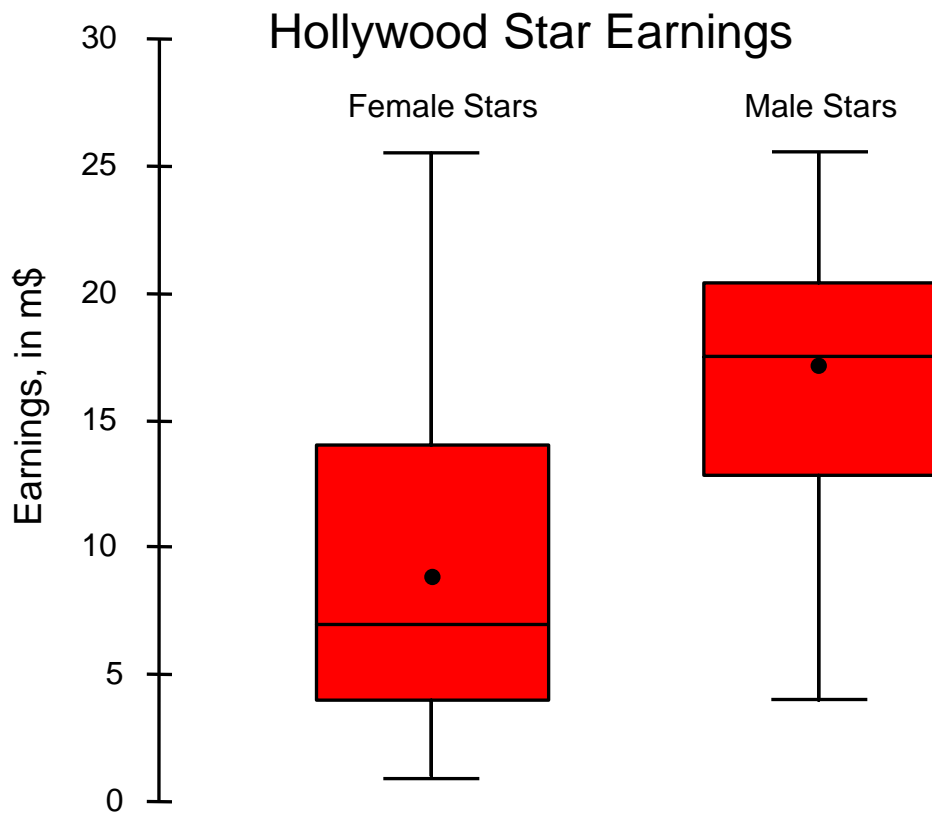


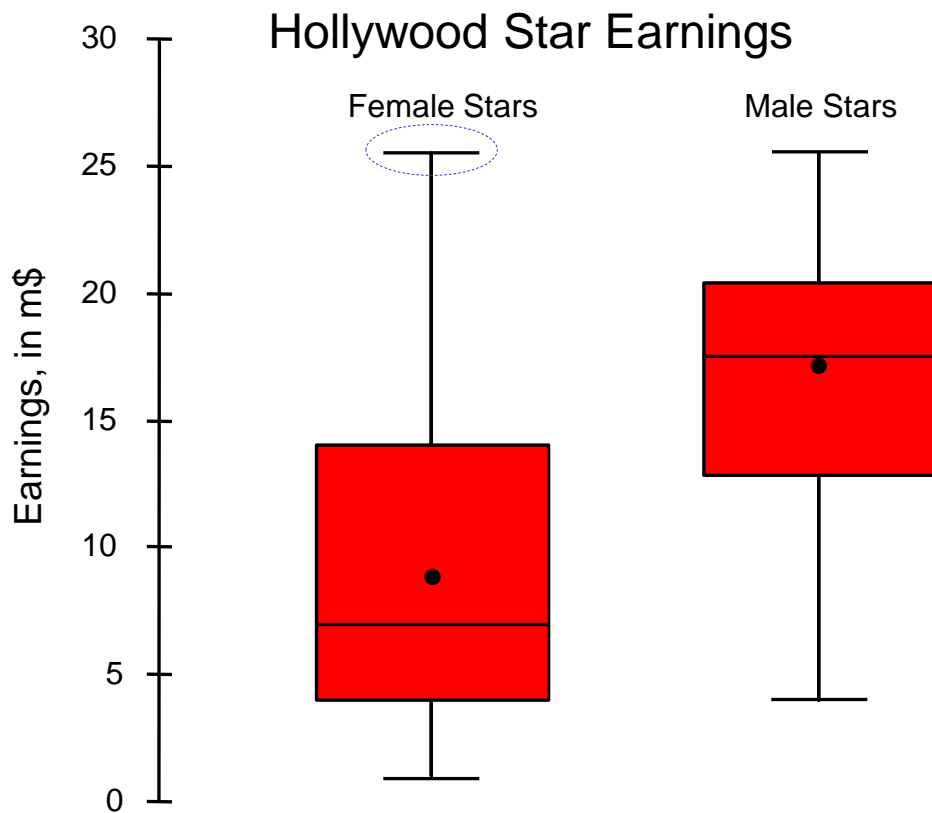
Box Plot - Definition

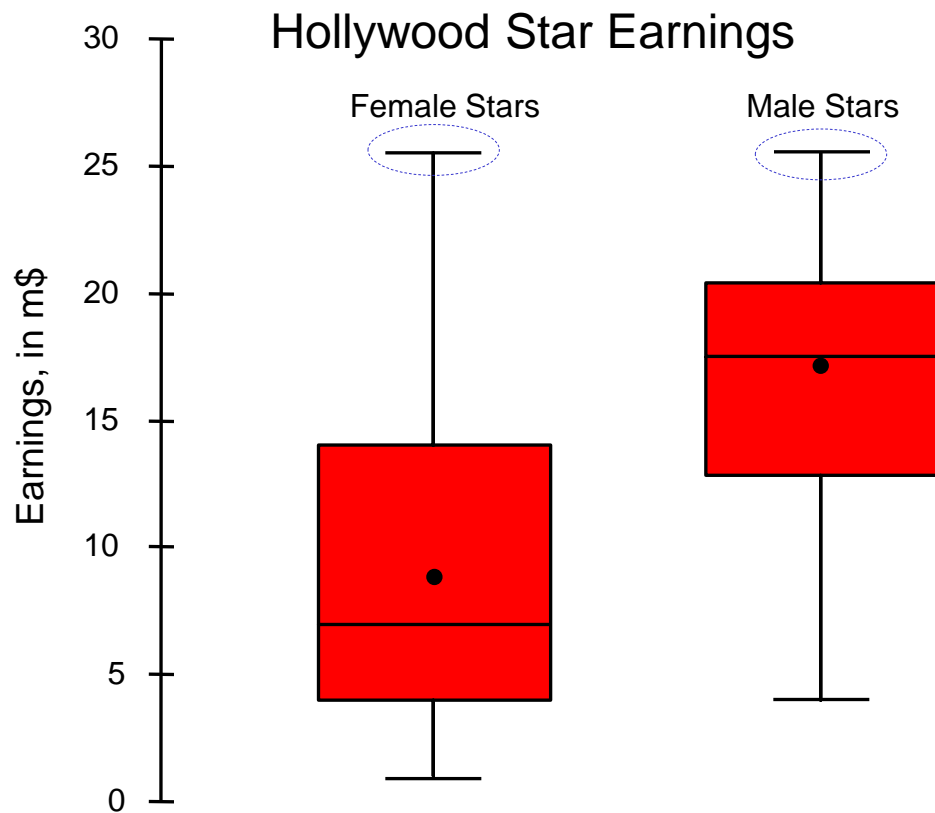


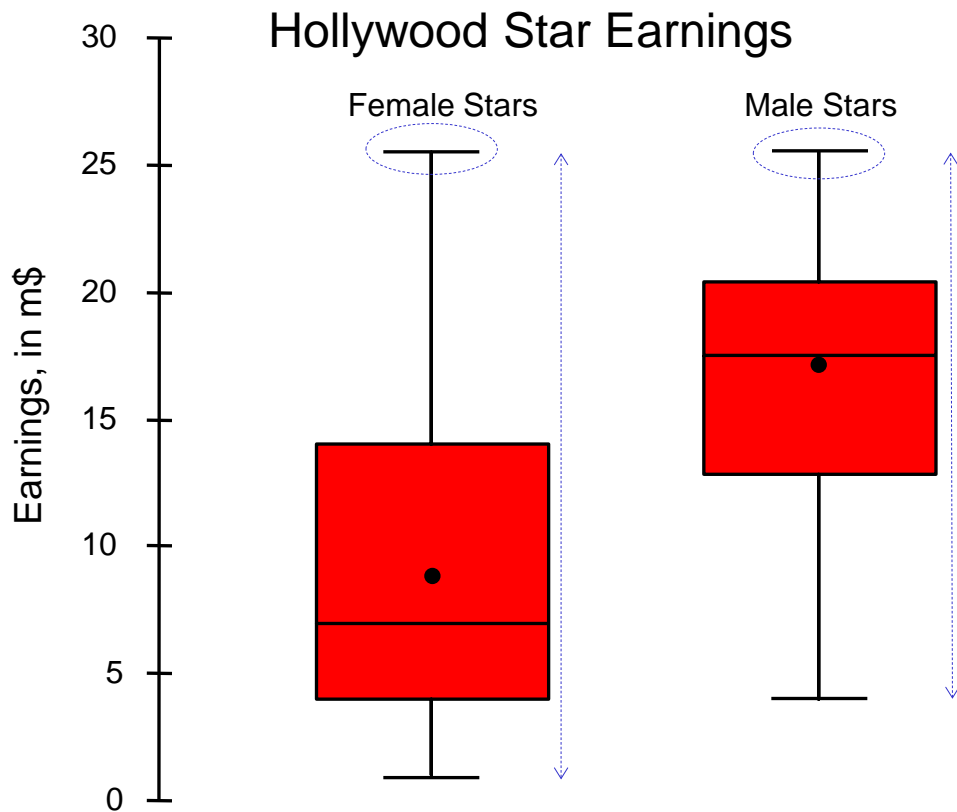
Box Plot - Definition

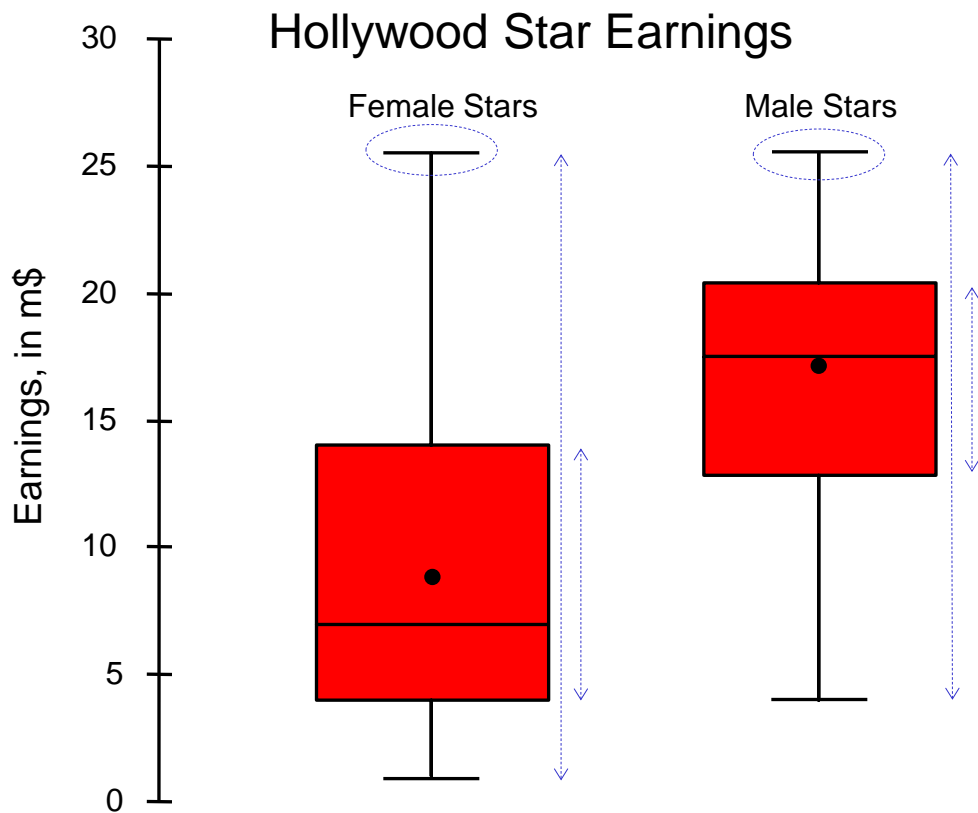


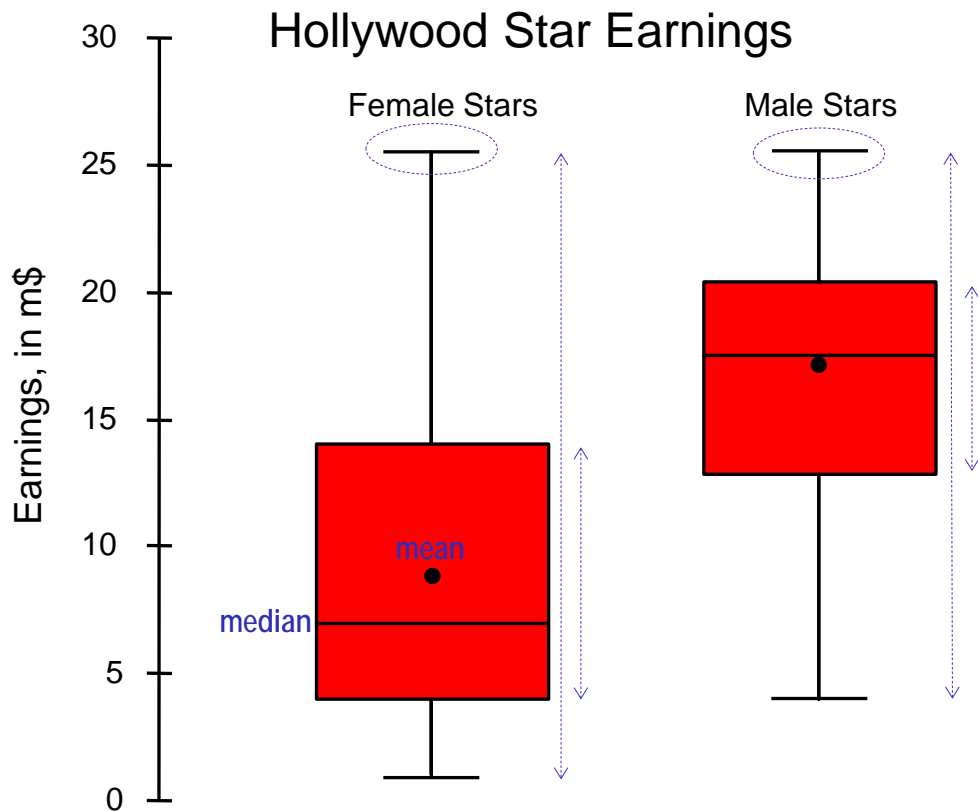


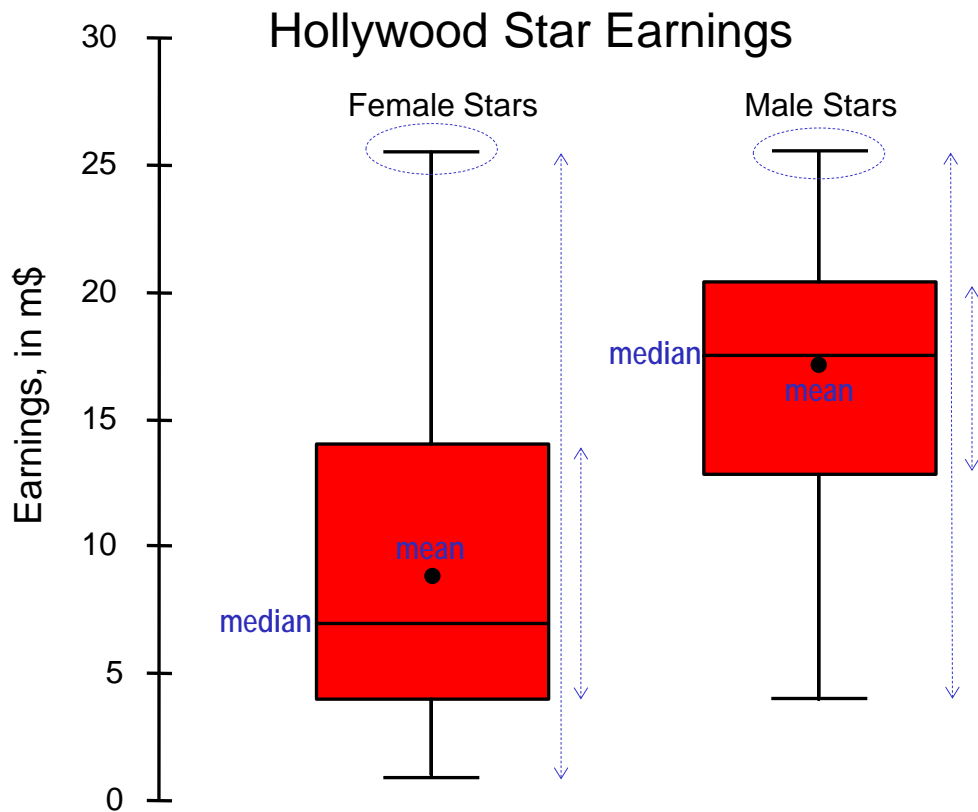




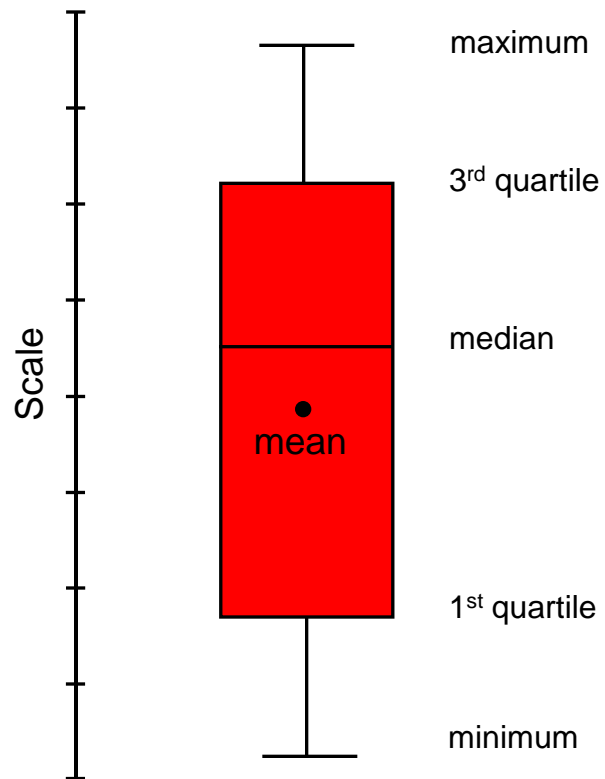








Box Plots



Measures of Dispersion / Spread

The 'Range' measure

The 'Inter Quartile Range' measure

Measures of Dispersion / Spread

The 'Range' measure

The 'Inter Quartile Range' measure

The Standard Deviation measure



Salaries at a small firm

Firm 2

\$35,800

\$25,500

\$31,600

\$41,700

\$35,300

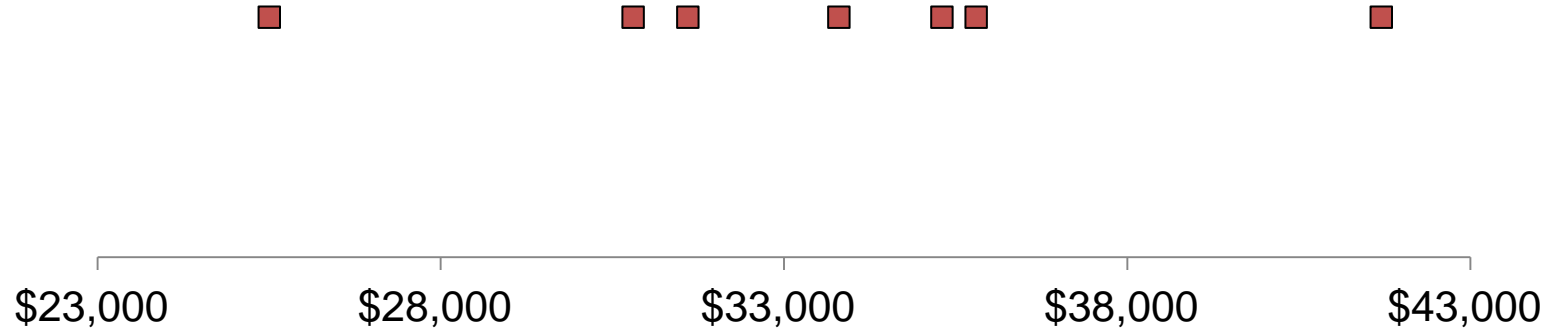
\$33,800

\$30,800

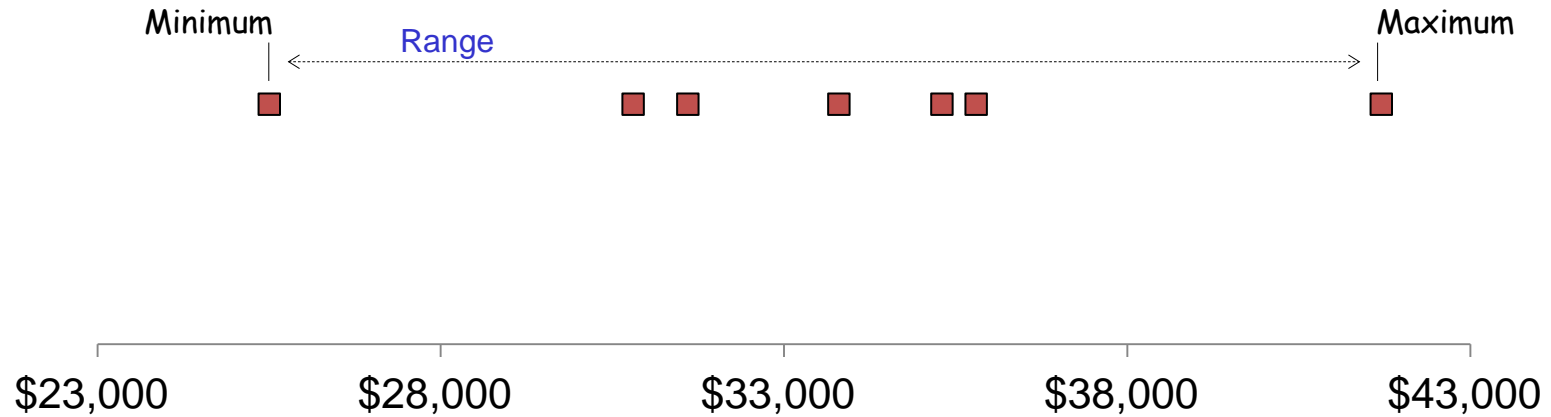
Mean = \$33,500

Median = \$33,800

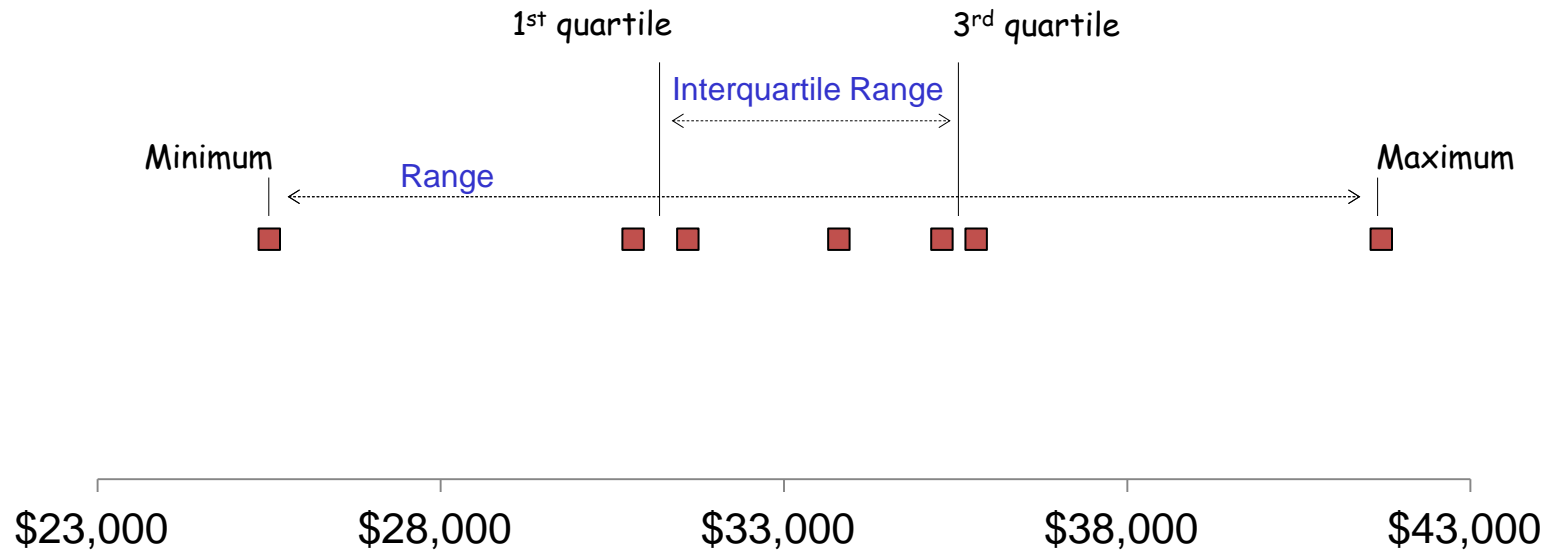
Salaries at a small firm



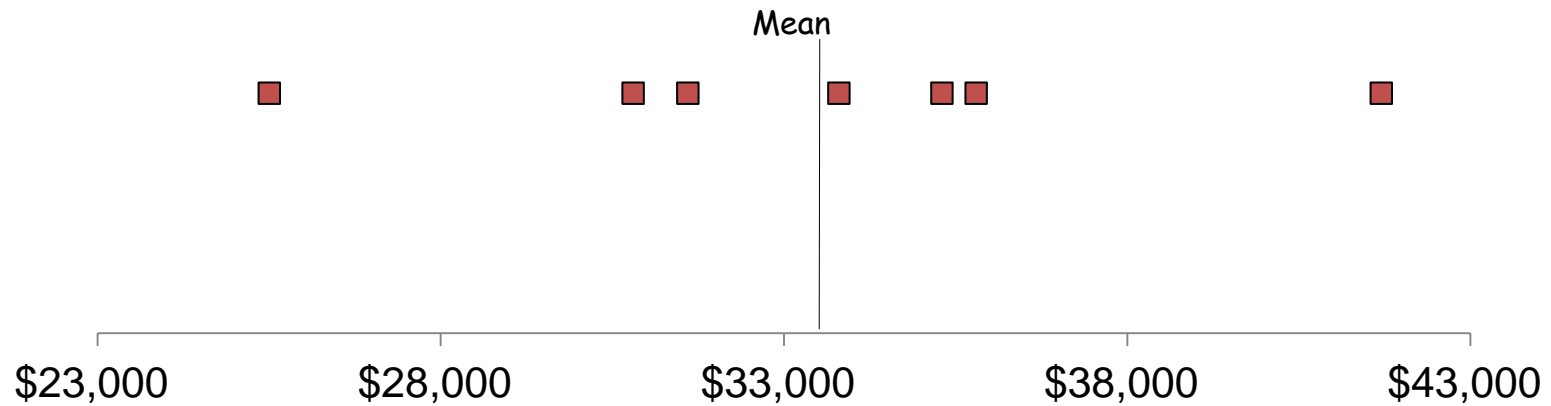
Salaries at a small firm



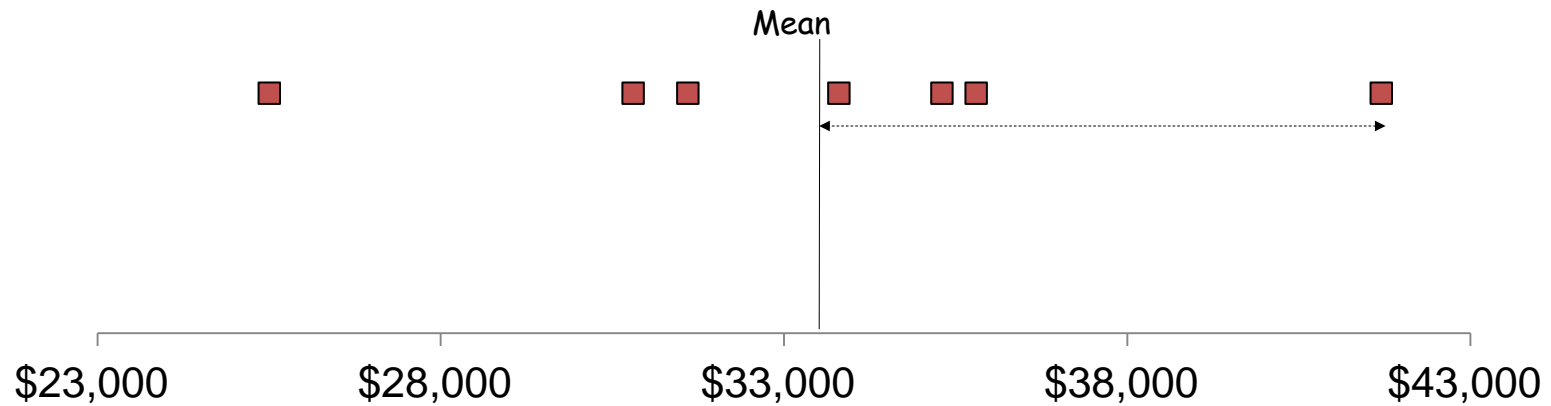
Salaries at a small firm



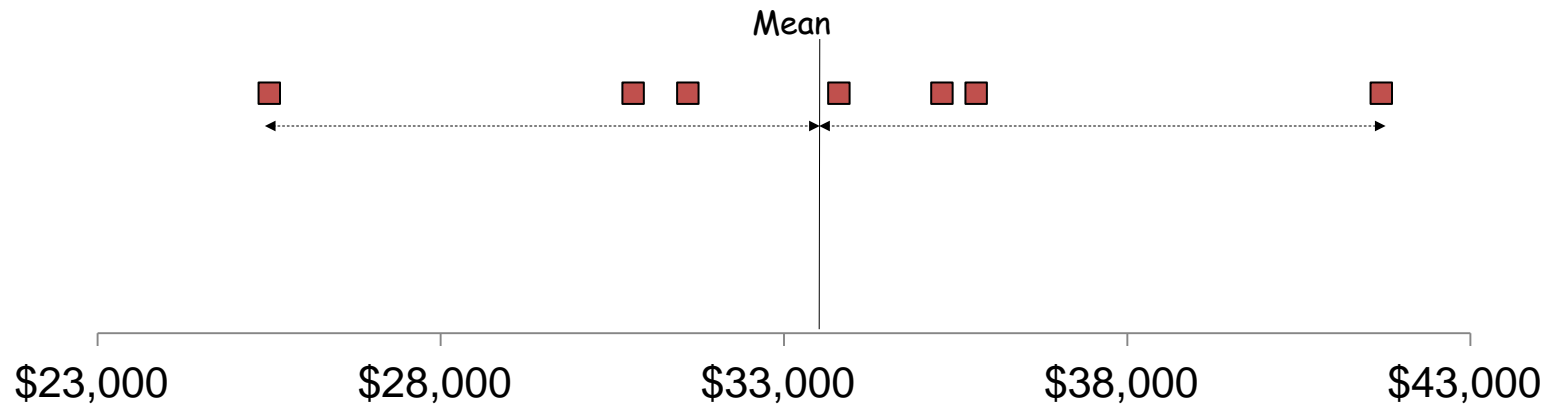
Standard Deviation



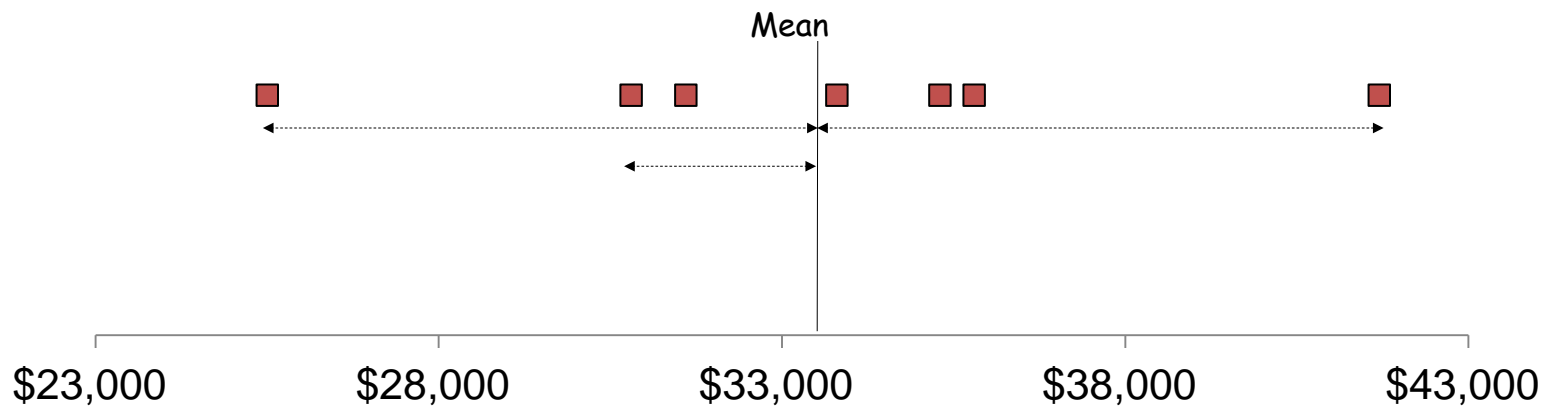
Standard Deviation



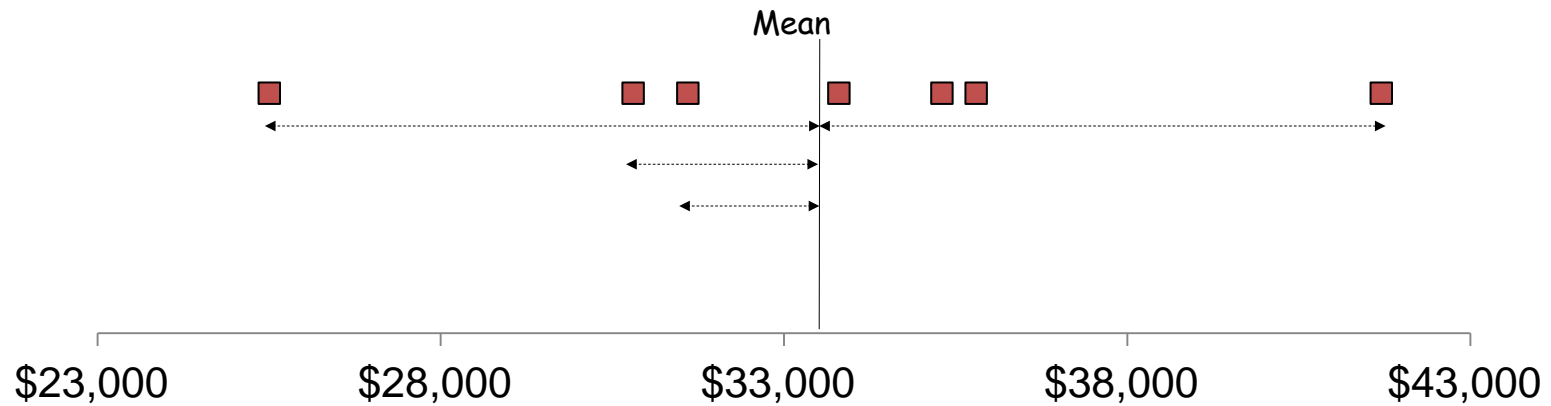
Standard Deviation



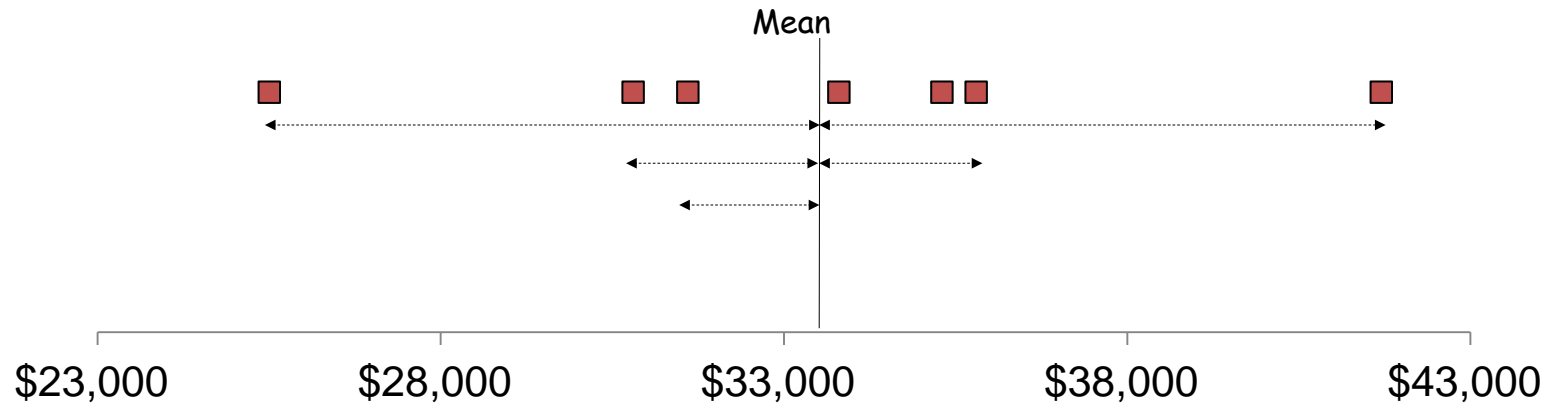
Standard Deviation



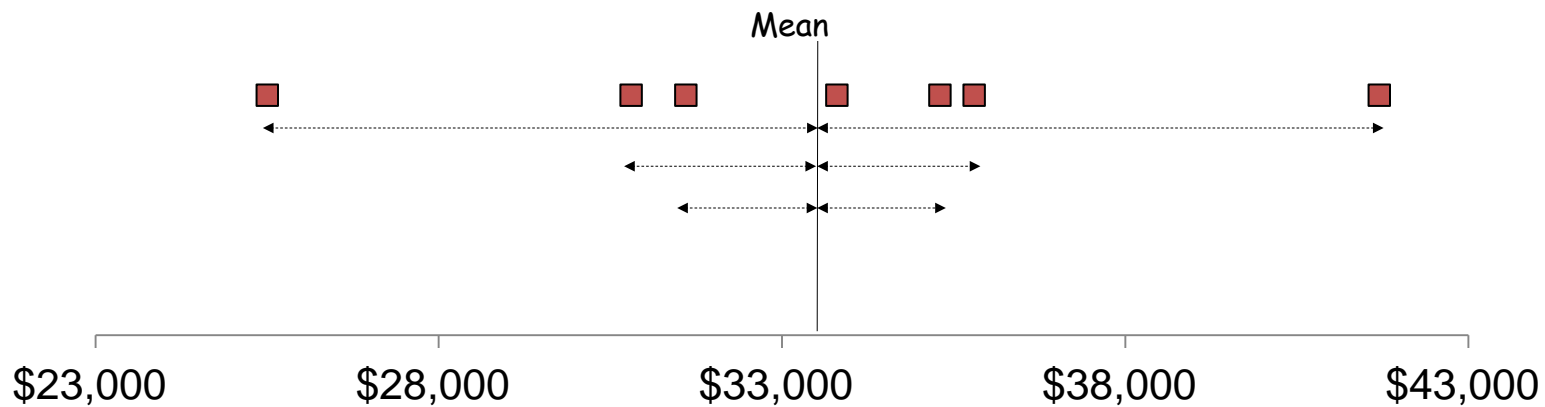
Standard Deviation



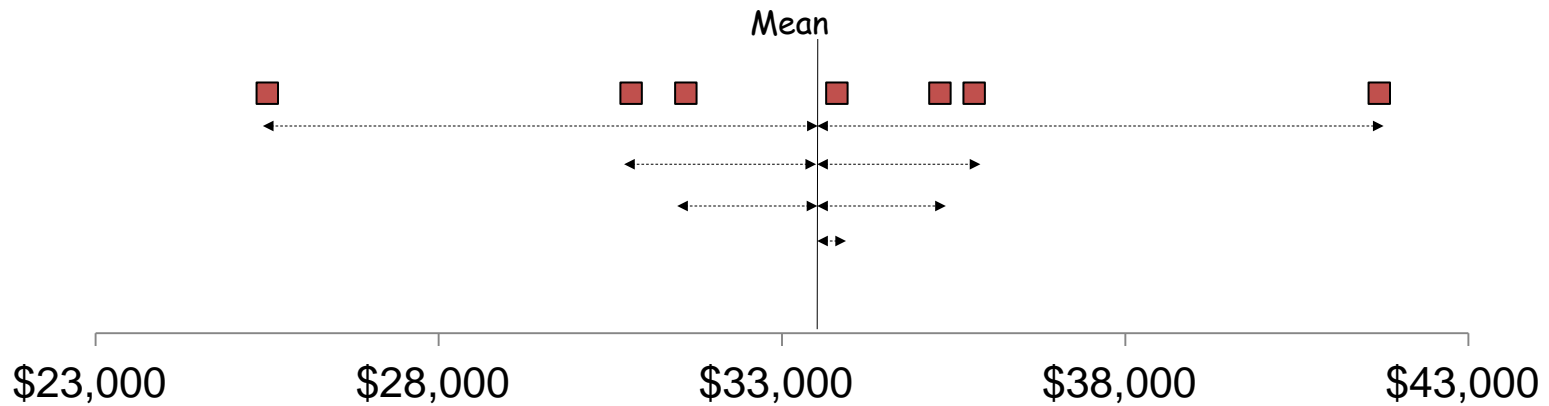
Standard Deviation



Standard Deviation



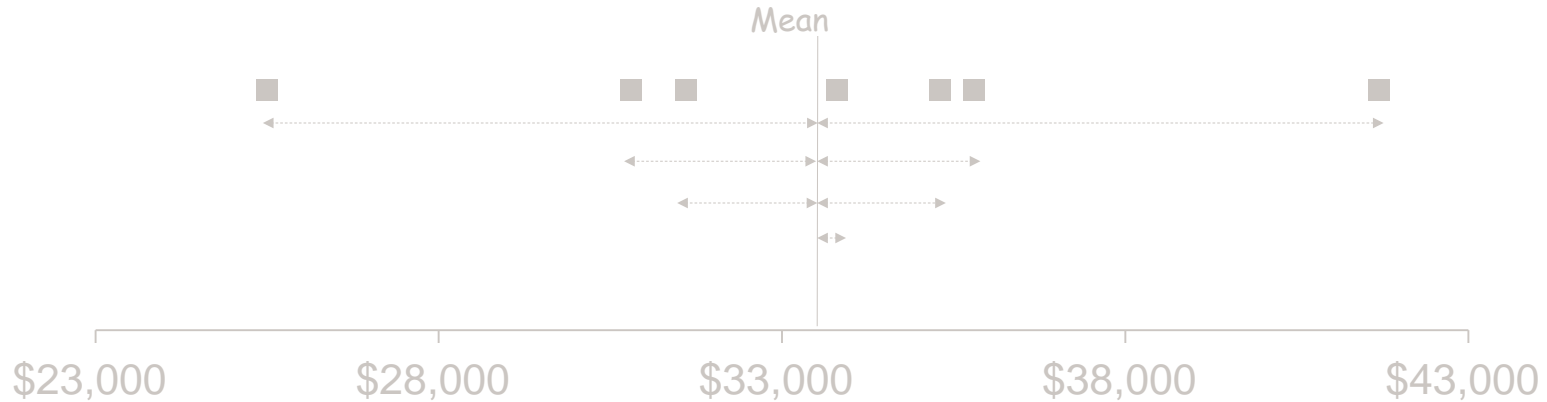
Standard Deviation





Standard Deviation

$$= \sqrt{\frac{1}{N} \sum_{i=1}^N (\text{difference}_i)^2}$$





Standard Deviation

$$= \sqrt{\frac{1}{N} \sum_{i=1}^N (\text{difference}_i)^2}$$

Excel Command (population standard deviation)

=STDEV.P(*number1, number2,...*)



Standard Deviation

$$= \sqrt{\frac{1}{N} \sum_{i=1}^N (\text{difference}_i)^2}$$

Excel Command (population standard deviation)

`=STDEV.P(number1, number2,...)`

Excel Command (sample standard deviation)

`=STDEV.S(number1, number2,...)`

