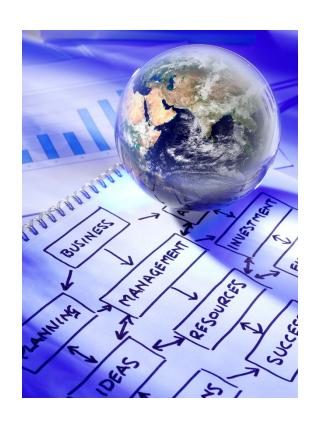


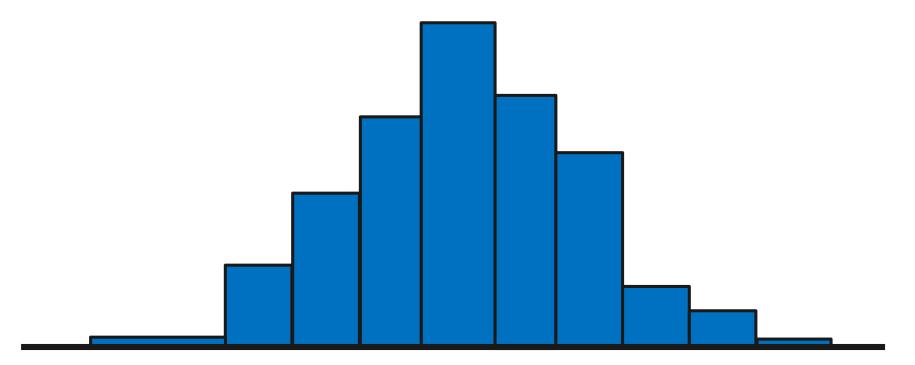
Practical Management for Career Readiness



Effective Problem Solving and Decision Making Module 2



with Rob Stone, M.Ed., PMP



A graphical display where the data is grouped into ranges and each bar is plotted as a range of data

Shows us information as it actually exists

Allows us to make decisions based on evaluation of available information

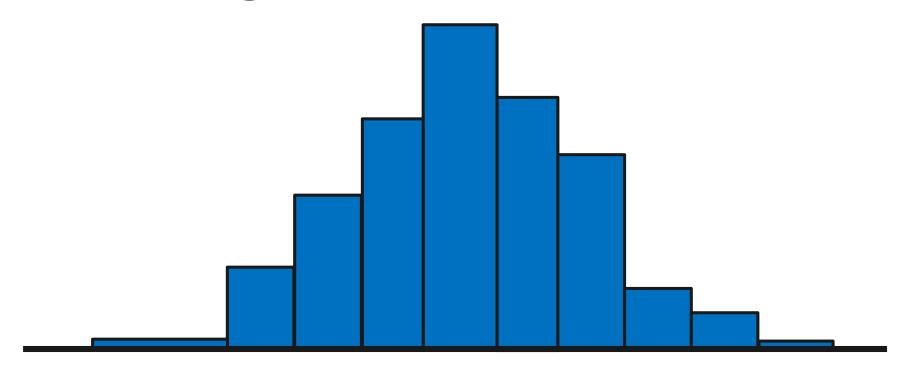
Helps us examine what is going on

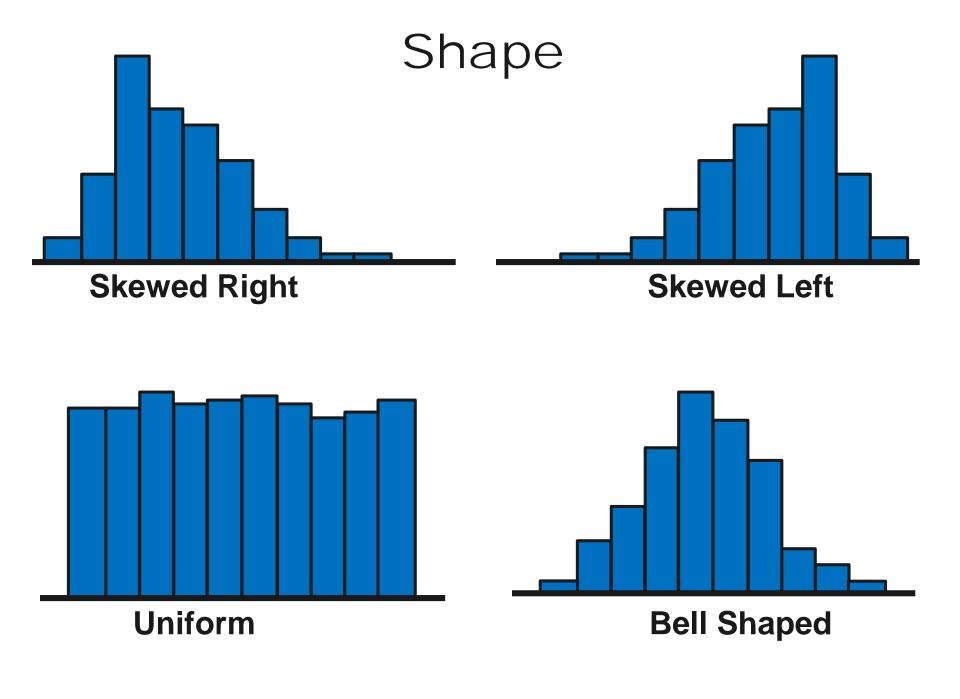
A histogram displays:

Shape
Central Tendency
Dispersion

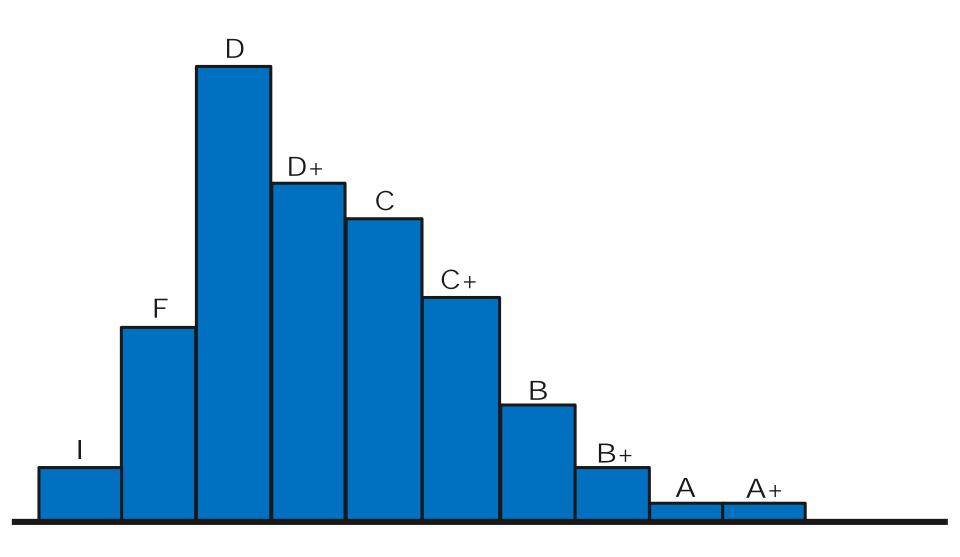
Shape

The frequency in which the data occurs in each class interval will determine the shape of the histogram

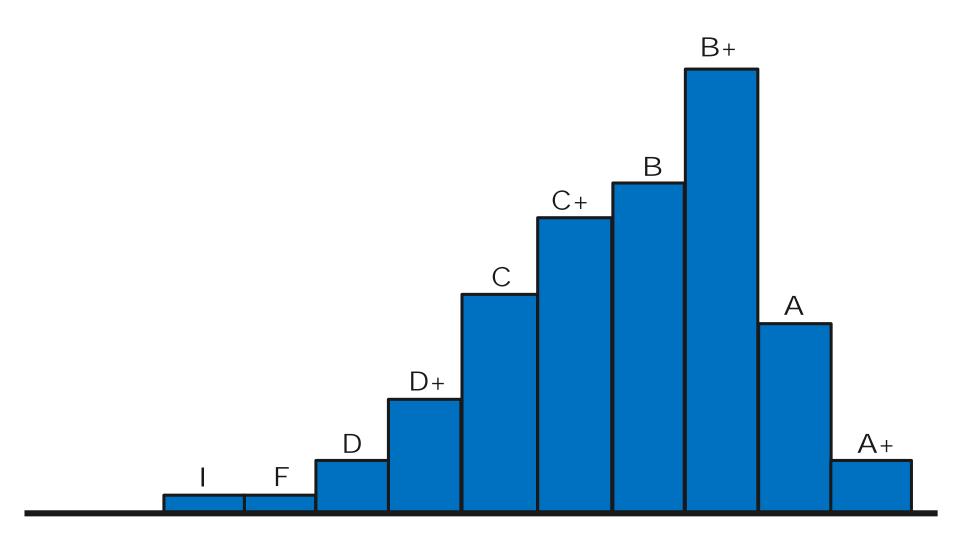




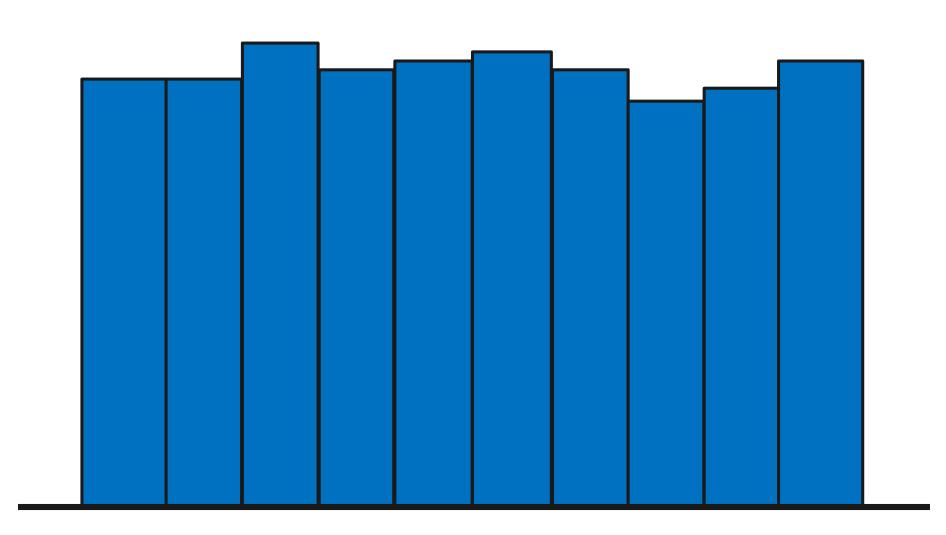
Shape: Skewed Right



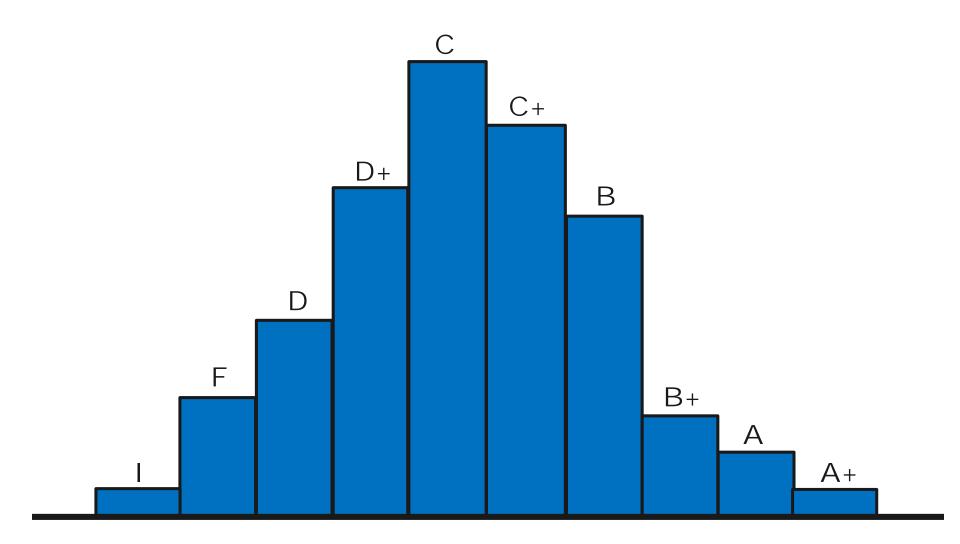
Shape: Skewed Left



Shape: Uniform

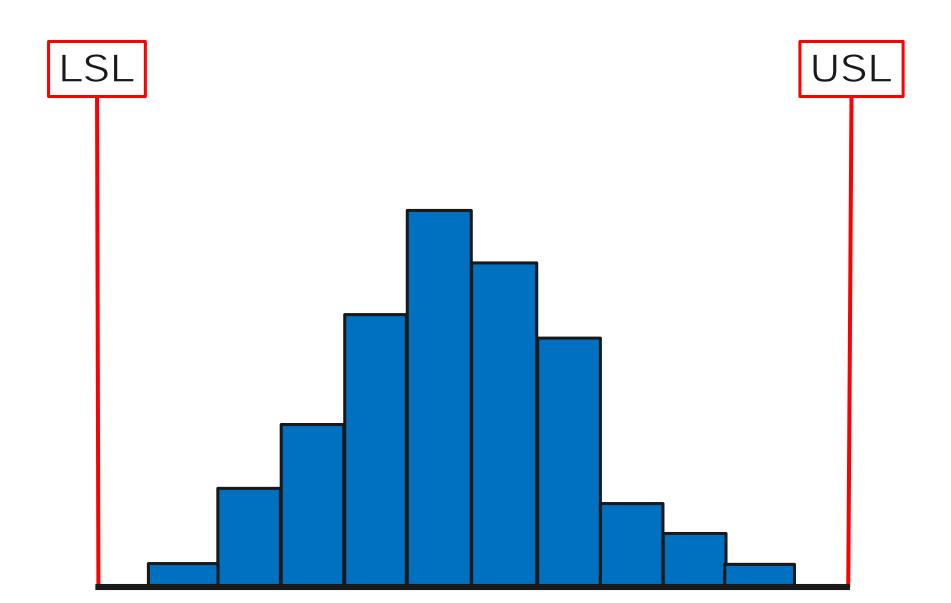


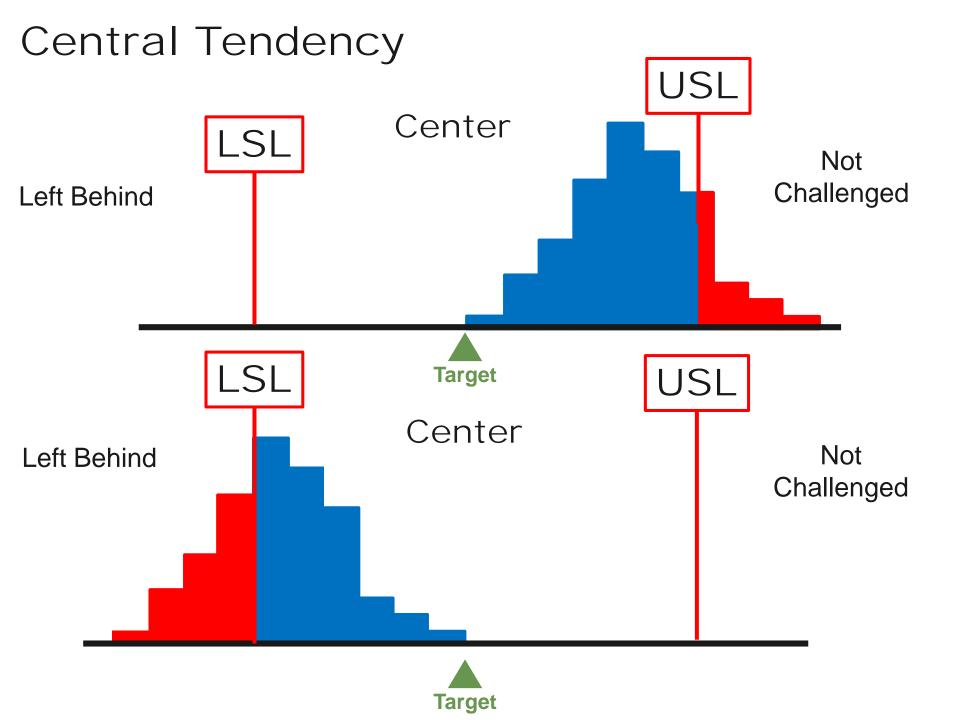
Shape: Typical Bell Curve



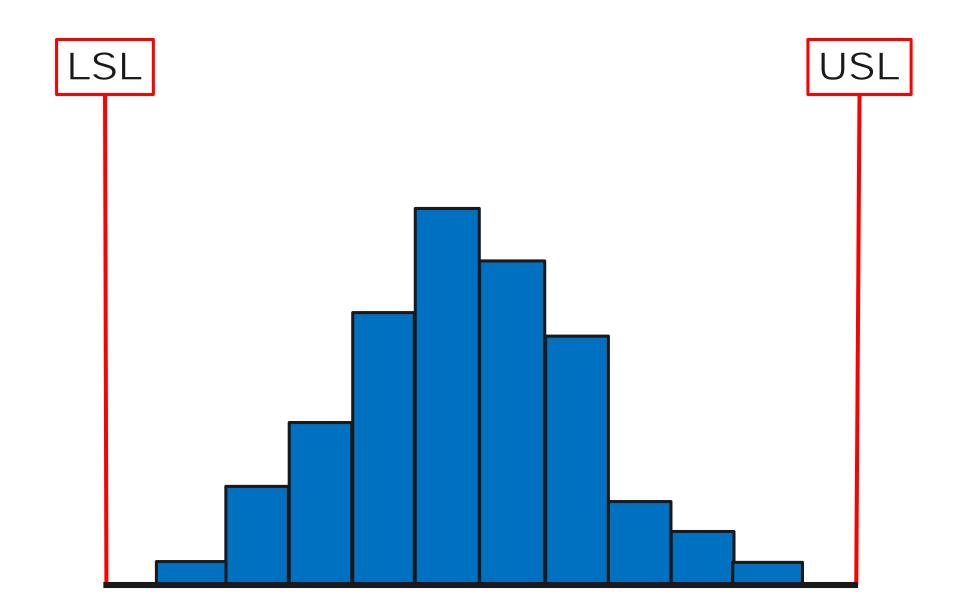
Central Tendency

Lower and Upper Specification Limits





Central Tendency: Normal Curve



Central Tendency

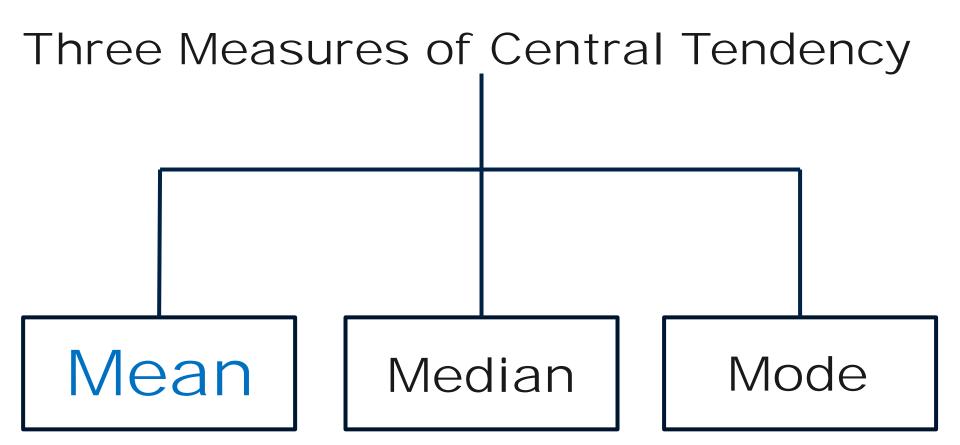
Shows us how the data tend to cluster around a particular value

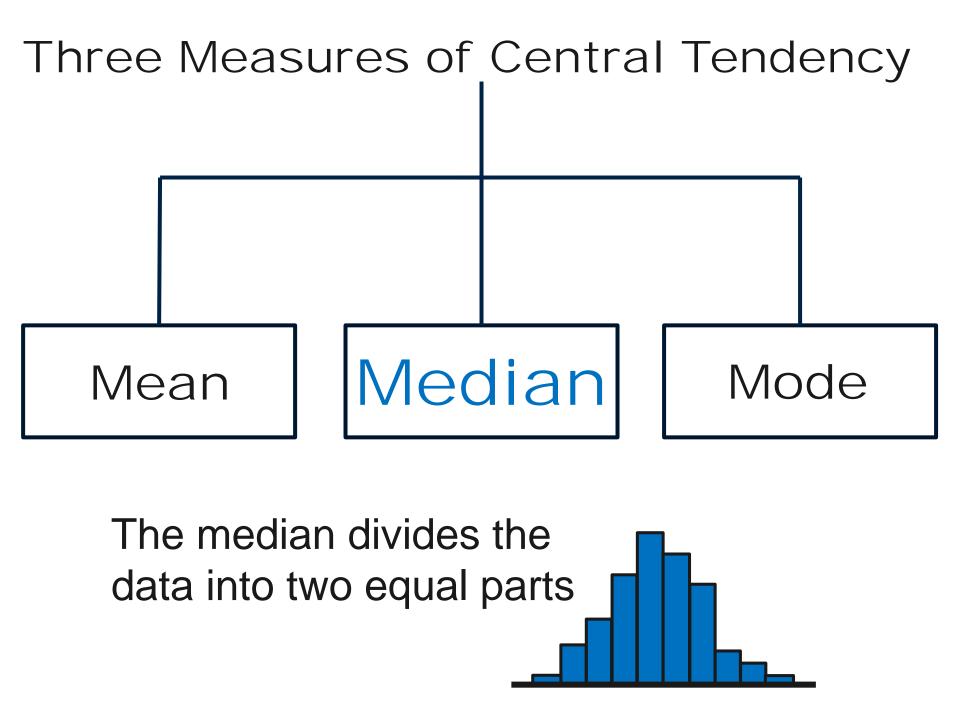
Three Measures of Central Tendency

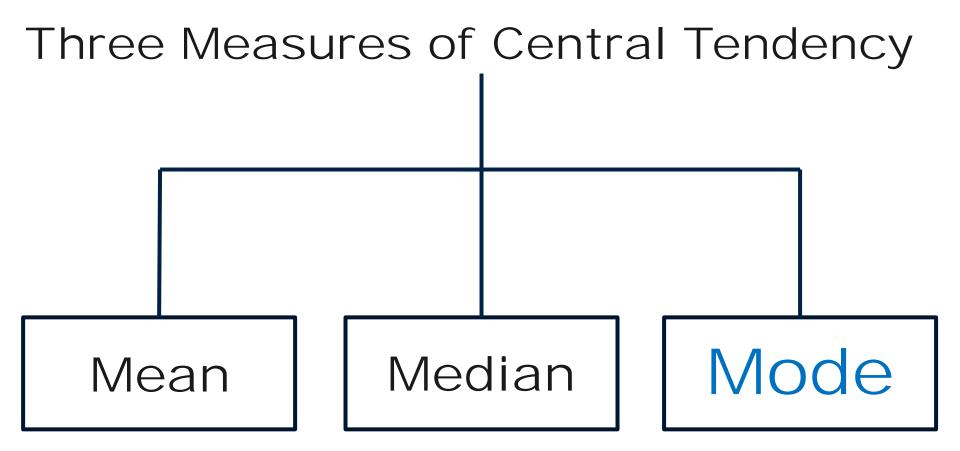
Mean

Median

Mode





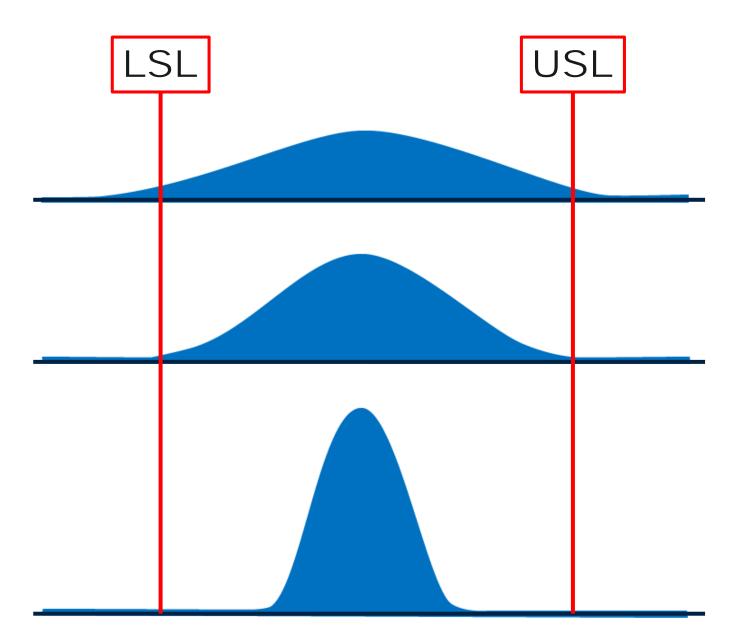


The value with the highest frequency

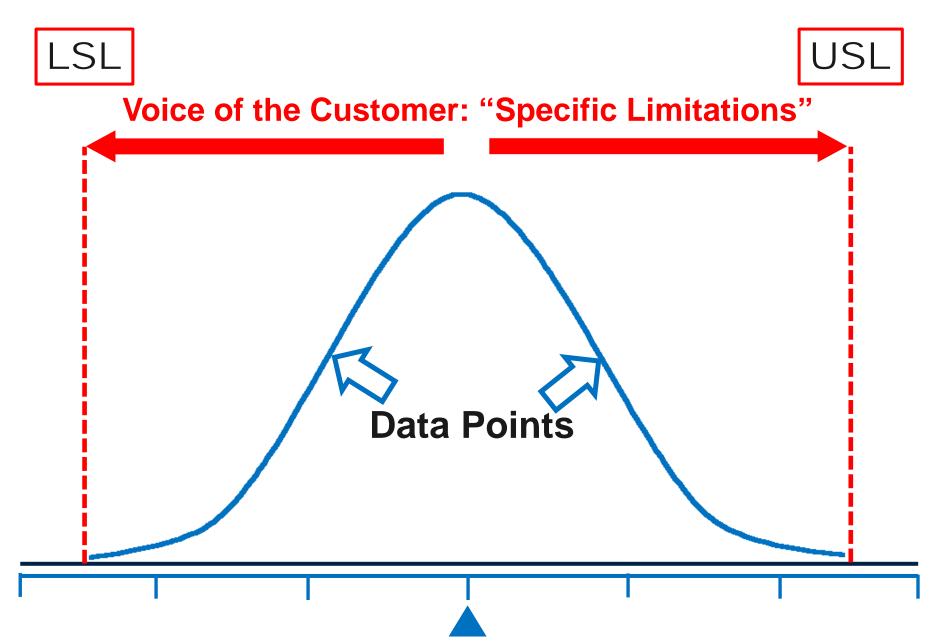
Easiest to identify

The least useful measure

Dispersion



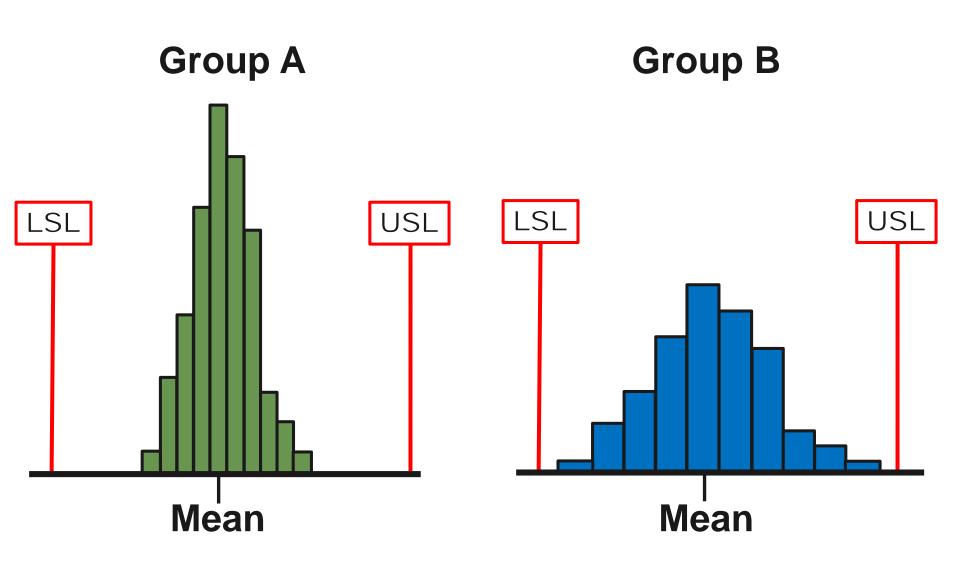
Voice of the Process Data



Dispersion: Standard Deviation

A typical distance from the mean

Dispersion



Value of Histograms

The three measures of

- Shape
- Central tendency
- Dispersion

... can help us make decisions and take effective actions.

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