

Statistics Final Exam Cheat Sheet

Population - entire collection of objects or individuals about which information is desired

- easier to take a sample
 - **Sample** - part of the population that is selected for analysis
 - **Watch out for:**
 - Limited sample size that might not be representative of population
 - **Simple Random Sampling** - Every possible sample of a certain size has the same chance of being selected

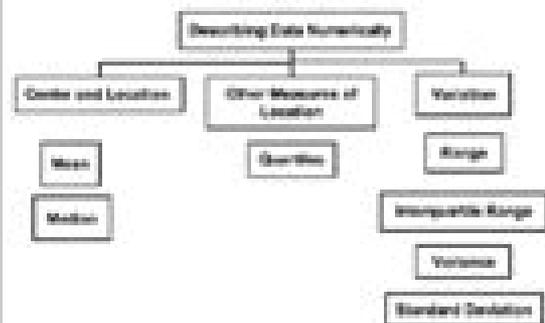
Observational Study - there can always be lurking variables affecting results

- i.e. strong positive association between shoe size and intelligence for boys
- "should never show causation"

Experimental Study - lurking variables can be controlled; can give good evidence for causation

Descriptive Statistics Part I

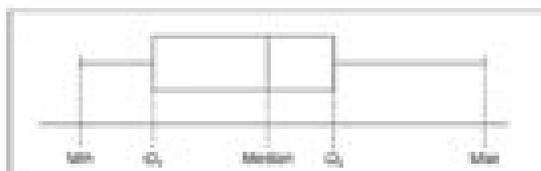
→ **Summary Measures**



- **Mean** - arithmetic average of data values
 - "Highly susceptible to extreme values (outliers). Goes towards extreme values"
 - Mean could never be larger or smaller than max/min value but could be the max/min value

- **Median** - in an ordered array, the median is the middle number
 - "Not affected by extreme values"

- **Quartiles** - split the ranked data into 4 equal groups
 - **Box and Whisker Plot**



- **Range** = $X_{\text{maximum}} - X_{\text{minimum}}$
 - **Disadvantages:** ignores the way in which data are distributed; sensitive to outliers

- **Interquartile Range (IQR)** = 3rd quartile - 1st quartile
 - Not used that much
 - Not affected by outliers

- **Variance** - the average distance squared

$$S_x^2 = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}$$

- S_x^2 gets rid of the negative values
- units are squared

- **Standard Deviation** - shows variation about the mean

$$S = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}}$$

- highly affected by outliers
- has same units as original data
- finance = horrible measure of risk (trampoline example)

Descriptive Statistics Part II

Linear Transformations



- Linear transformations change the center and spread of data
- $Var(a + bX) = b^2 Var(X)$
- $Average(a + bX) = a + b[Average(X)]$

Statistics I Exam Notes

Jicheng Xie



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