



DATA ANALYSIS

It really is more exciting than this title





Data Classification

- Different types of questions yield different types of data
- The type of data you have will determine the type of tests you can run.
 - Nominal (Dichotomous/Categorical)
 - Ordinal
 - Interval





POP QUIZ!!!

- Q1 How old are you? Enter your age here []
- Q2 Which of the following best describes your gender?
 - [] Male
 - [] Female
 - [] I don't want to say
- Q3 Please rate your level of experience with program evaluation
 - [] No experience
 - [] Beginner
 - [] Intermediate
 - [] Expert





Extra Credit Question

Please rate how much you agree or disagree with the following statements:

I like science.

[] Strongly agree[] Agree[] Disagree[] Strongly disagree





Parametric versus non-parametric statistics

- Are your data normally distributed?
- What is your sample size?
- Do you have adequate statistical power?





Descriptive statistics

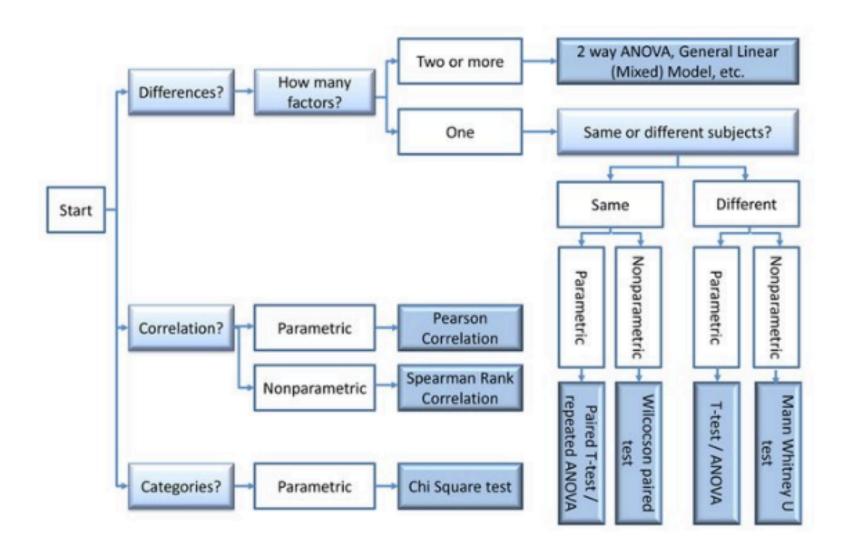
- Mean sum of values divided by the n
- Median the middle value in a list of numbers
- Mode the value that occurs most often
- Frequency how often a value was chosen
- Cross tabulations frequencies divided into categories

Inferential Statistics

- Chi-Squares
- Correlations (Pearson, Spearman,)
- T-tests (Wilcoxon Signed Rank Test/ Mann-Whitney U Test)
- ANOVA (Kruskal-Wallace test)

UCONN CAHNR EXTENSION









Key concepts

- Statistical power the likelihood that a study will detect an effect when there is an effect there to be detected
- Significance the likelihood that the result is not due to chance (p is less than or equal to .05, .01, . 001)
- Effect Size the strength of the relationship between two variables