

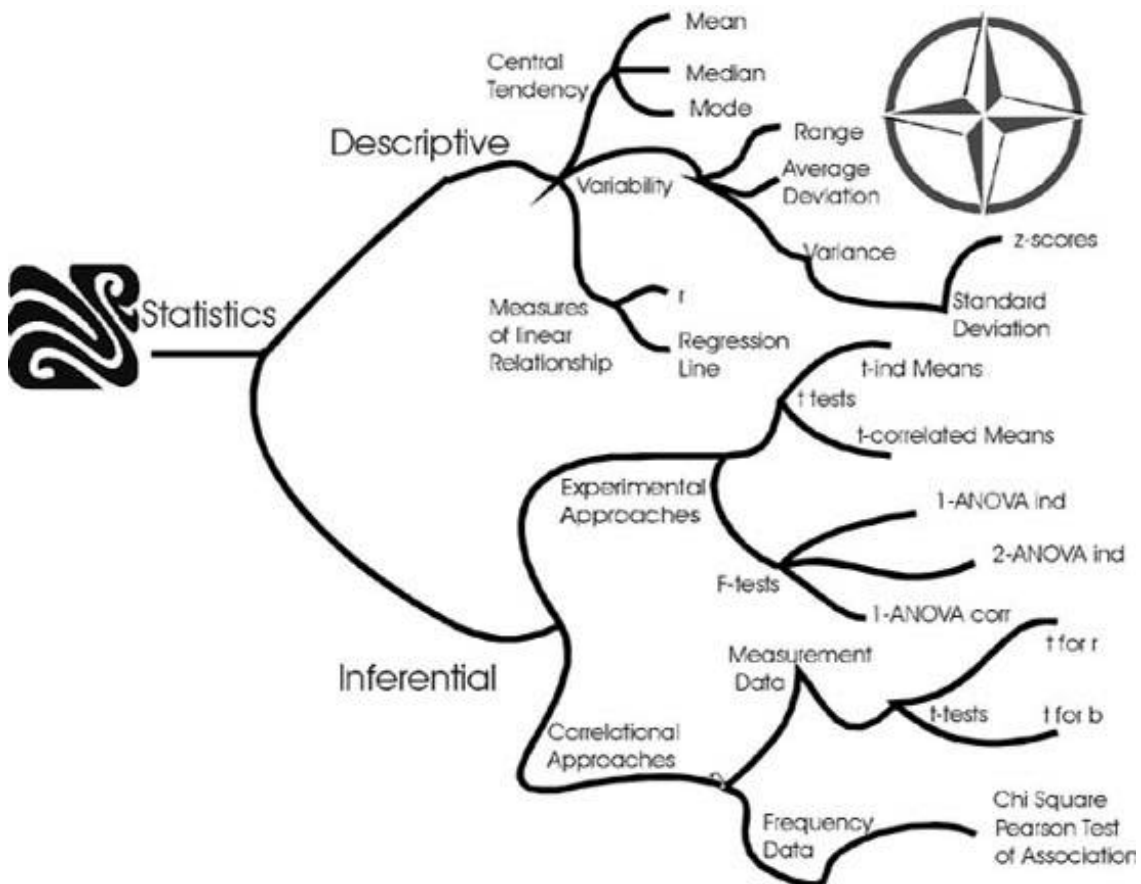
STATISTICS

Statistics Overview

Descriptive statistics

Inferential statistics

Map of statistics:



MEASURES OF CENTRAL TENDENCY

In an experiment, these are applied to the dependent variable (DV)

E.g.,

MEASURES (DESCRIBERS) OF CENTRAL TENDENCY

What is central tendency?

Mean

Formula:

Easy Example:

4, 8, 8, 8

Second Example:

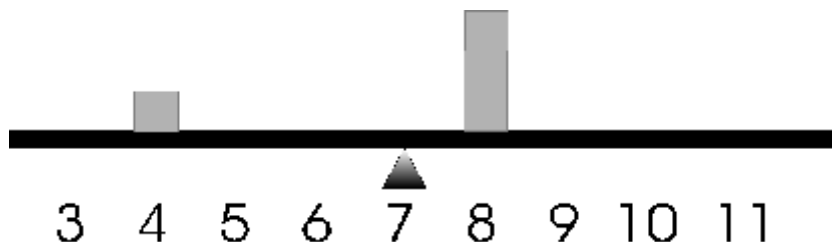
12, 15, 11, 20, 13, 10, 17

Sum of the deviations around the mean = 0

Simple Example	
Score X	Deviation (X - M)
4	
8	
8	
8	
Ex =	E(X - M) =

More complex example:

Balance Point



Median

Conceptual Definition:

Example 10, 17, 1, 5, 9, 10, 4

Put numbers on a number line:

Mode

Example 10, 17, 1, 5, 9, 10, 4

Mean versus Median

The Median is Less influenced by extreme scores than the mean

Case 1: 10, 17, 1, 5, 9, 10, 4

Case 2: 10, 69, 1, 5, 9, 10, 4 (69 is an extreme score)

Mean, Median, & Mode compared for Household Income