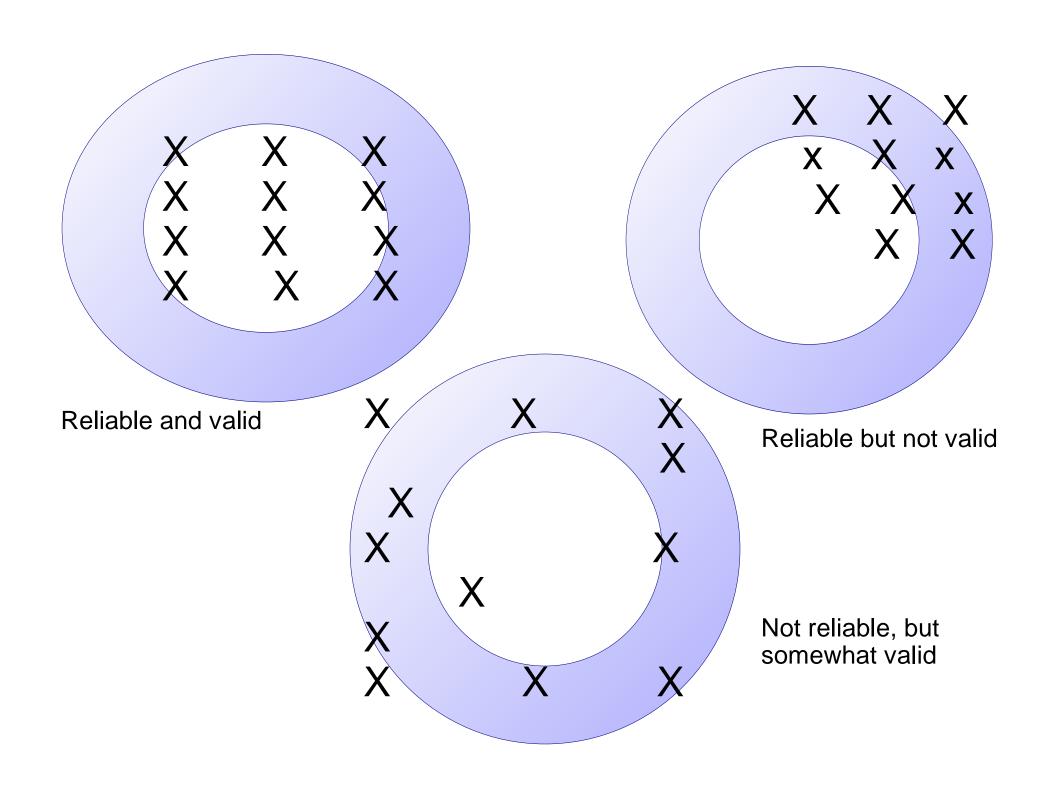
P The concepts of reliability and validity of measures

- Formal definitions
 - Reliability: The extent to which you can expect to get the same answer if you apply it twice to the same object.
 - Repeatability
 - Book says "measuring something consistently and dependably"
 - Validity: The extent to which an operational definition represents the conceptual definition
 - Are you measuring what you intended to measure?
- Target analogy



P Reliability

- Factors in whether it is high or low
 - In observations, what were your problems?
 - Different point of view
 - Lack of clarity in operational definition
- What about an open-end code? How improve reliability?
 - Have clear definitions, with examples
 - Training of coders
 - Practice
- Ways of assessing it, for indexes such as yours
 - Test-retest
 - Alternate forms
 - Internal consistency

P Validity: the concept of a criterion

- What is a criterion? A separate measure by which we can assess the validity of a measure we have developed.
- Example of football player
 - Referee calls his catch out of bounds. What is criterion to assess validity of that measure?
 - Right, instant replay.
 - He claims to be self-confident. What is criterion to assess validity of that statement?
 - Ask his friends, coach, other team members
 - Observe his behavior
 - Take physiological measures

P Kinds of validity

- face
 - Just what it says: on its face, it looks like a measure
- convergent/concurrent
 - A second similar kind of measure is correlated with it
 - E.g., open-ended vs. Index in your questionnaires
- criterion
 - Known groups differ in expected ways on measure
- construct/predictive
 - Relates as it should, theoretically, to other variables
- discriminant
 - It measures differently from a measure known or thought to measure a different concept: e.g. love and liking

P Scales and Indexes

- Why do we use scales and indexes instead of single item measures?
 - Only need them when measuring complex concepts with multiple dimensions
 - They increase both reliability and validity
 - No single item is very reliable, so having multiple items increases reliability of measure. Notion of equivalence. Errors cancel out
 - No single item captures all of a complex concept. So having multiple items allows for coverage of entire concept.
- Two kinds of scaling
 - Rational
 - Empirical

P Rubin article

- Purpose
 - Develop and validate a measure of romantic love
- Method
 - Rational or empirical?
 - Where did he get the items?
 - Steps after developing initial list of items
 - Judging and sorting into love and liking
 - Factor analysis --> two sets of items
 - Couples in romantic relationships answer questions
 - Gazinig experiment
- Your assessment?
- Walster scale

P The questionnaire study. What is it for?

- Think of it as a pretest for a future study
 - Trying to develop a reliable and valid measure of your central concept
 - Concept of equivalence: assume each of items is equally good at measuring concept, although may measure diffferent aspects or dimensions
 - Don't want to use more items than needed. Look at items for
 - Confusion here is where you look at "process"
 - Range power to move people around for this you look at frequencies



- Finally, reliability how they correlate with other items for this you look at item analysis
 - Correlation matrix
 - Item to total correlations
- Then check index for validity
 - Two tests of validity
 - Concurrent/convergent validity: open-ended vs index test
 - Construct/predictive validity: Obvious hypothesis test