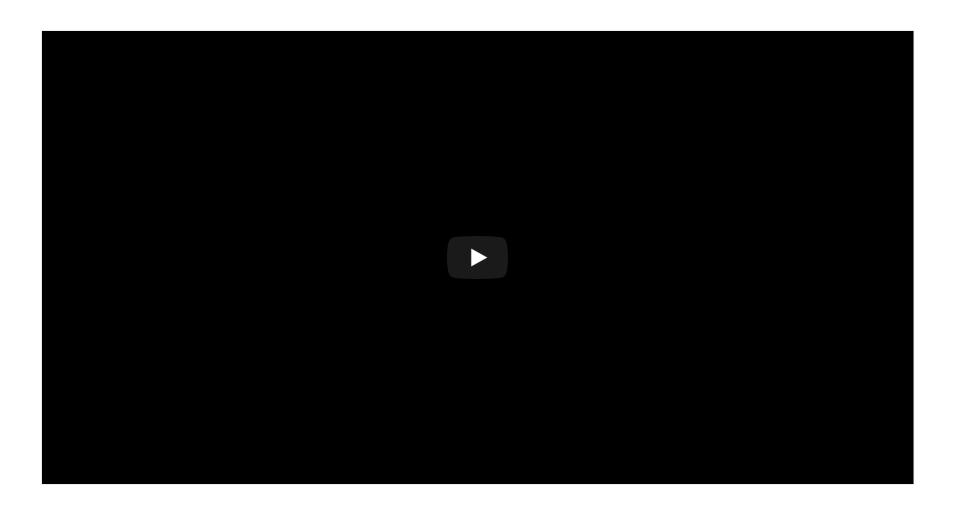


Let's Measure Politics!

Design Political Research: Week 6

Yue Hu

How do you measure the tourists' attitudes?



Measure the attitudes in four levels:

· Nominal: "A nominal variable has attributes that are merely different, as distinguished from ordinal, interval, or ratio measures" (Babbie 139)



Measure the Chinese tourists' attitudes with normal measurements?

Ordinal

· "A level of measurement describing a variable with attributes we can rankorder along some dimension." (Babbie 140)



Measure the Chinese tourists' attitudes with normal measurements?

Interval

• "A level of measurement describing a variable whose attributes are rankordered and have equal distances between adjacent attributes." (Babbie 140)



Measure the Chinese tourists' attitudes with normal measurements?

Ratio

 "The attributes composing a variable, besides having all the structural characteristics mentioned previously, are based on a true zero point." (Babbie 140)

Sentiment Analysis



· Measure the Chinese tourists' attitudes with normal measurements?

Assumption behand the measurement levels

Level of Measurement	Arithmetic Operations	How to Express the Fact That Jan Earns \$80,000 a Year and Andy Earns \$40,000
Nominal	$= \neq$	Jan and Andy earn different amounts.
Ordinal	><	Jan earns more than Andy.
Interval	+ -	Jan earns \$40,000 more than Andy.
Ratio	\div $ imes$	Jan earns twice as much as Andy.

Measurement Validation

- Precision
- · Reliability
- Validity

Precision



· Precision vs. reliability?

Reliability



Validity

"Valid measurement is achieved when scores (including the results of qualitative classification) meaningfully capture the ideas contained in the corresponding concept." (Adcock and Collier 2001, 530)



Face validity



Microwave popcorn; Light salad dressings; Flavored fat-Free Yogurt; Dried Fruit; Blue corn chips; Cereal;

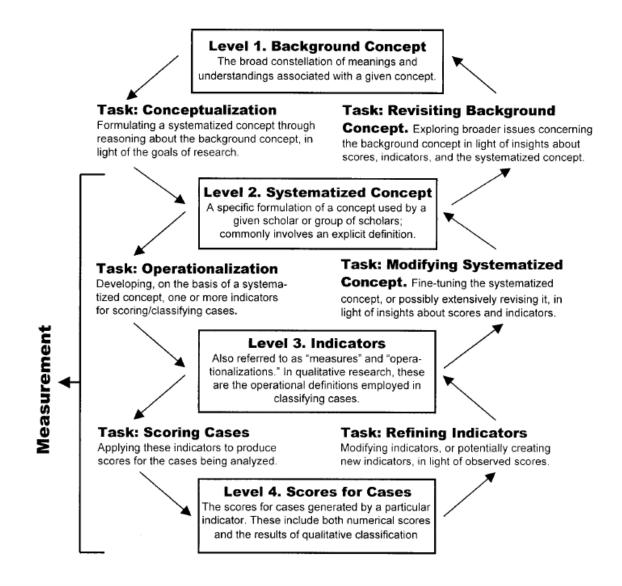
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Precision, reliability, validity



Validity in depth

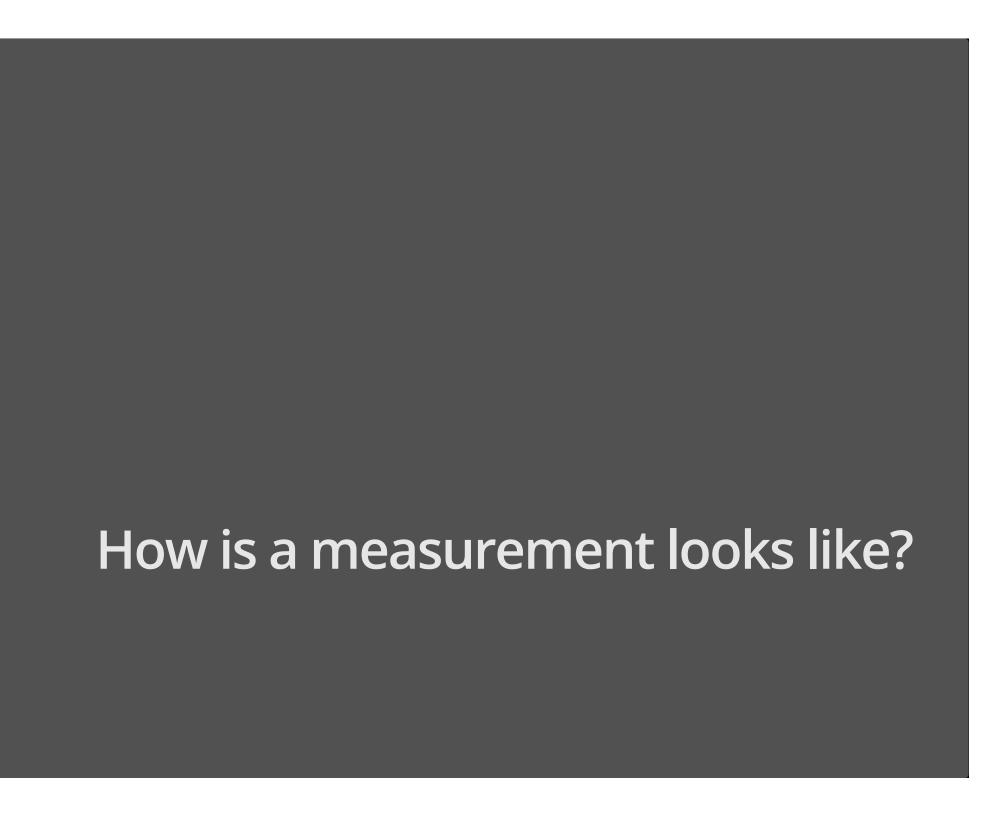
"Measurement is valid when the scores (level 4 in Figure 1), derived from a given indicator (level 3), can meaningfully be interpreted in terms of the systematized concept (level 2) that the indicator seeks to operationalize." (Adcock and Collier 2001, 531)



Contextual specificity

"Do you like pizza?"





Qualitative: Typology

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Quantitative: Index vs. Scale

Index-Construction Logic

Here are several types of political actions people may have taken. By and large, the different actions represent similar *degrees* of political activism.

To create an *index* of overall political activism, we might give people 1 point for each of the actions they've taken.

Wrote a letter to a public official Signed a political petition

Gave money to a political cause

Gave money to a political candidate Wrote a political letter to the editor

Persuaded someone to change her or his voting plans

Scale-Construction Logic

Here are some political actions that represent very different degrees of activism: for example, running for office represents a higher degree of activism than simply voting does. It seems likely, moreover, that anyone who has taken one of the more demanding actions would have taken all the easier ones as well.

To construct a *scale* of political activism, we might score people according to which of the following "ideal" patterns comes closest to describing them.

