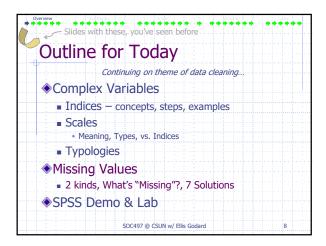


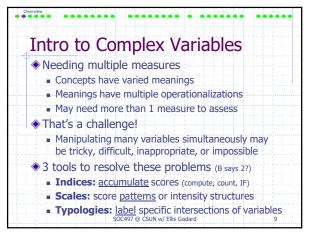


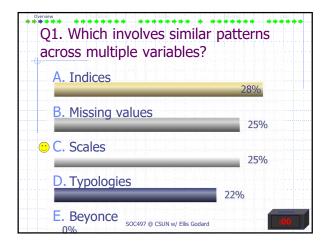


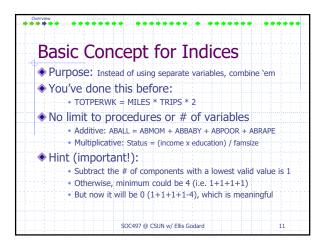
Reminders: ToDon'ts...

wait to draft your survey questions
wait until night b4 midterm due to start
forget to ID a secretary on labs (3+)
use the "measure" column to find LOM
use all Central Tendency or Dispersion measures
for the same variable & dataset @ once
say "prove" about any scientific idea
say any output, ever, is "normal" – it isn't!
call me "Godard" ©









Advantages of Indices

1. More efficient

= simplify/ease summary/analysis of data

2. More descriptive

= more variation (12 dichotomies -> one 0-8)

3. More valid

= "Better" measurement if difficult underlying concept

• SES via measures of wealth?

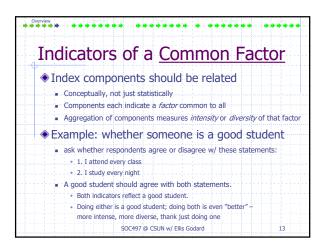
• Status via measures of prestige?

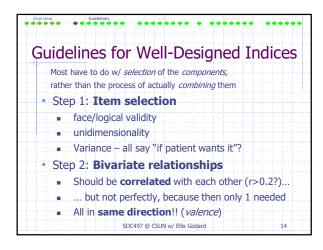
= Best if concept has multiple inseparable dimensions

• Love

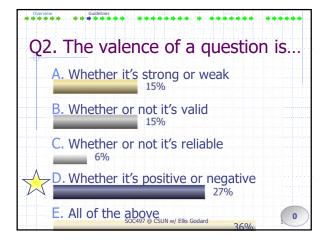
• Status

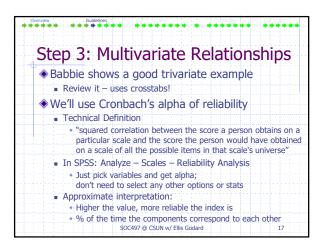
= But assumes dimensions distributed in same places

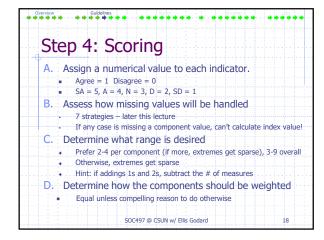




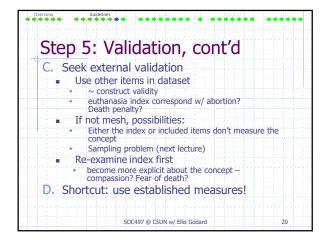
Example w/ Valence Issue For all five questions please answer strongly agree, agree, disagree, or strongly disagree. Q1: President Bush should not go to war. Q2: Congress should authorize a war against Iraq. Q3: I am against killing of other humans. Q4: If American troops are sent into battle, it will be a just cause. Q5: Most of my friends do not support a war against Iraq.

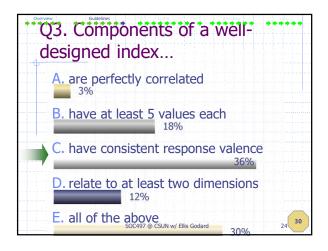


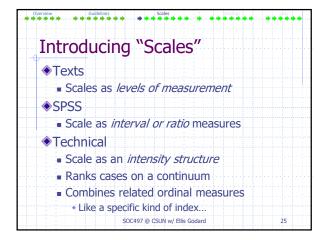


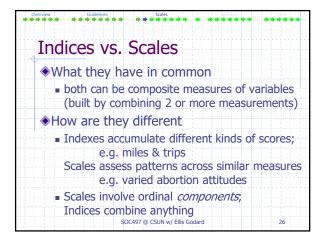


Step 5: Validation Four options... A. Inspect sample cases Look across some rows - make sense? Combine correctly? B. Conduct item analysis Statistically measure extent to which composite measure is related to or associated with the included items Pearson's correlation coefficient (0.2 or higher) Cronbach's alpha of reliability (?)









Scales: A Special Case

What level of measurement are they?

Textbooks often say interval

Seem ordinal to me (differences not equal)

Unsettled debate – see the "schemapiric view"

Stevens, Science 30, Aug 1968, V 161, No 3844, p849-856, "Measurement Stats and the Schemapiric view"

When in doubt, treat as both

E.g. consider the mean and median

Each procedure has assumptions; compare results

Like triangulation – alt perspective = deeper inquiry

