

The Basic Idea...

Take action and observe the results

Vary the nature of something within a sample

Look for differences that follow

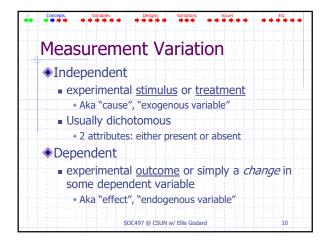
Same major components as all* research:

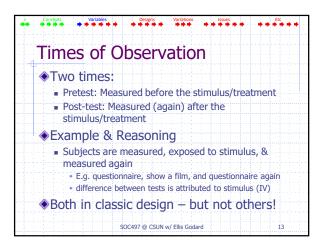
Measurement Variation

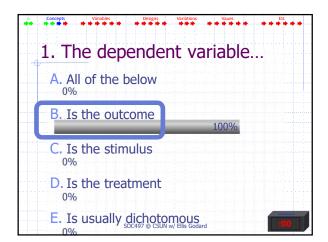
Times of Observation

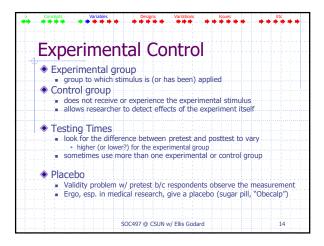
Experimental Control

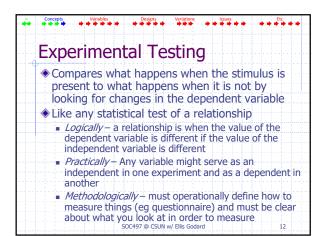
* vary, of course (as everything does) – in degree, style, focus, etc.

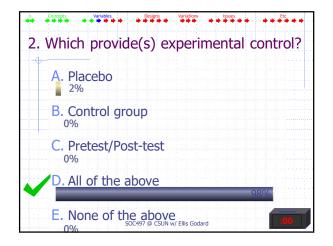












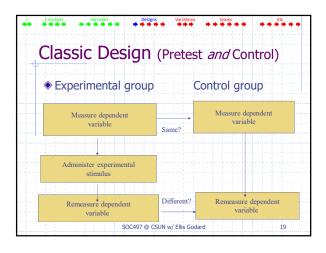
Randomization Important

Should randomly assign subjects to the experimental & control groups

Reduces the chances that one group is different from another in important ways

Gives greater confidence that the subjects in one group will be reasonably similar to those in the other group — want comparable groups

The bigger the sample (the more subjects), the more confidence we have in our results



Remember External Validity?

How generalizable are the results?

Controls & Randomizations key

I less of a problem with explanatory than descriptive

patterns are more generalizable and stable than specific characteristics

Probability sampling not often used

Requires large sample size to be confident in representativeness

May need 100+ per group - but experiments often have ~40 total

Split sample

40 may not represent population,
but can randomly assign each to 2 groups

sampling logic suggests that each group of 20 represents the "population" of 40

Matching is even better (...)

look for pairs of similar subjects and put one in each group

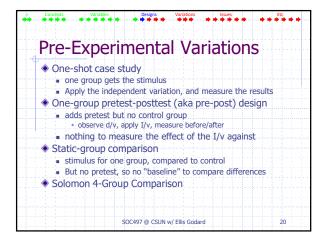
esp strong if use quota matrix - see Figure 9-2 orip 239

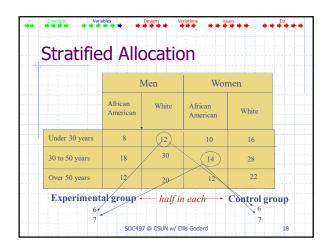
but remember that key is not random vars (age, race, etc)

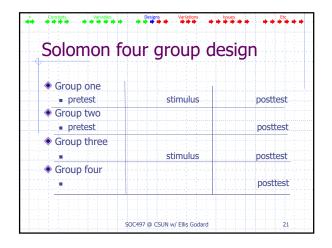
just those that you believe will be strongly related to the DV (and/or IV)

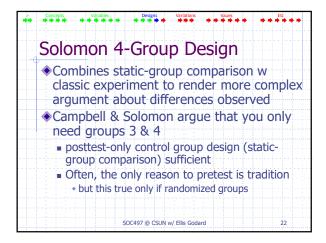
Also, have to know what variables are important in advance

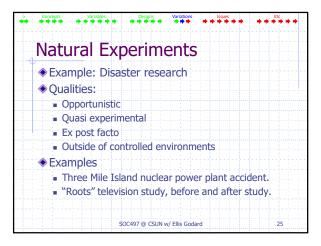
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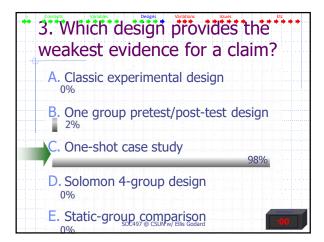


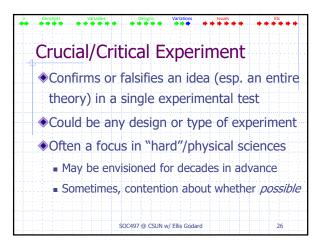


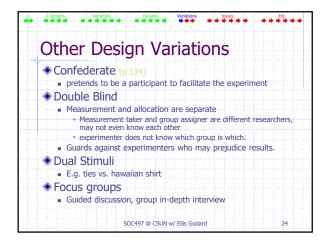


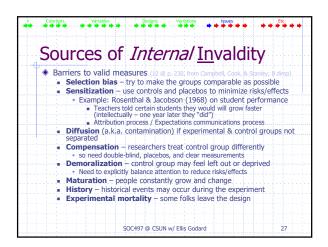


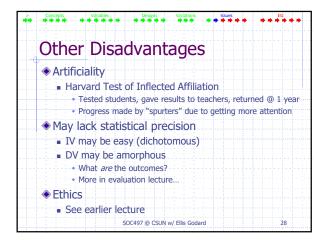


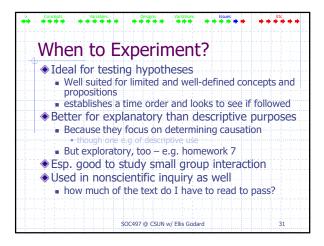


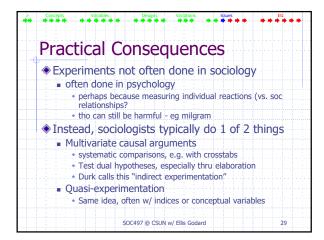


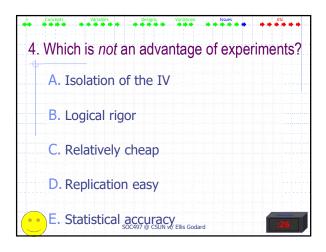












Methodological Advantages

Isolation of the IV and its impact over time

Logical rigor hard to achieve w/ other

modes

Relatively little money, time, and subjects

Relatively simple to replicate

