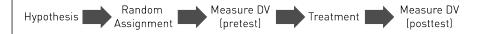
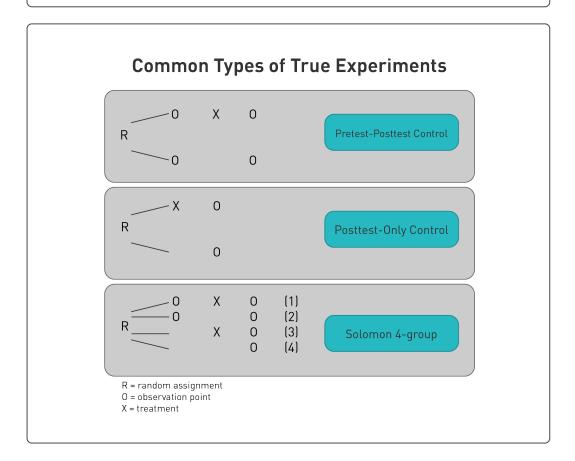
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Pretest-Posttest Design



Pretest: checks group equivalence before the intervention X is introduced

- Experimental manipulation/treatment: an independent variable (X) that the experimenter manipulates
- Posttest: checks group equivalence after intervention X has been introduced



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Three Major Types of Experiments

- 1. True experiments:
 - Subjects are randomly assigned to treatment and control groups.
 - The treatment (independent variable) is active.
- 2. Quasi-experiments:
 - Though the independent variable is active, subjects are not randomly assigned to treatment and control groups.
- 3. Associational nonexperiments:
 - Independent variable is not active.
 - Subjects cannot be randomly assigned to treatment and control groups because the groups contain the attribute of interest.

Example: Pen Study

- Question: Do individuals in the United States and Japan make different choices about "unique" versus "less unique" items when given a choice?
- Independent variables:
 - Cultural difference (Japanese students compared to U.S. students)
 - Pen layout (4 pens of one color, 2 pens of another color)
- Assignment:
 - Subjects were not randomly assigned because they already fell into one of the two societies.
- Dependent variable:
 - Would they choose the "common" pen or the "unique" one?
- This is an associational nonexperiment.

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Example: Website Credibility Study

- Question: Do people infer different amounts of credibility in websites with slightly different designs?
- Independent variables:
 - Amateur vs. professional graphics accompanied by standard text content
- Assignment:
 - Put both websites online, wait for enough individuals to visit each site, and respond to a credibility questionnaire.
- Dependent variable:
 - Credibility rating (a series of questionnaire items)
- This is a quasi-experiment.

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