



Intro to Stats

Dependent t-tests

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- ▶ Use when:
 - ▶ You are examining differences between groups
 - ▶ Each participant was tested more than once
 - ▶ You are comparing two groups (time points)

Uses of dependent t-tests

- ▶ Requires fewer subjects
- ▶ Ideal for studying changes over time
- ▶ Controls for the impact of individual differences

- ▶ But sensitive to order effects and other changes over time

Calculating

$$t = \frac{\Sigma D}{\sqrt{\frac{n\Sigma D^2 - (\Sigma D)^2}{n-1}}}$$

ΣD = sum of differences between scores
 n = number of pairs of scores