

Randomization ; the Physical Basis of the Validity of the Test

-Johnny Appleseed

Exchangeability

- When we analyze a model of the form

$$y_{ij} = \mu + \tau_i + e_{ij}$$

- We typically assume a constraint

$$e_{ij} \sim \mathcal{N}(0, \sigma^2)$$

- This assumption is typically valid if each y_{ij} represent exchangeable units.

- In a small-plot experiment, we design plots to be exchangeable.