

Simulation Results

Shiny App developed by Daniël Lakens and Aaron Caldwell

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Below are the results from the ANOVA simulation app. If you encounter any problems please visit our GitHub page (https://github.com/Lakens/ANOVA_power_simulation) to raise the issue.

Study Design

2b

Model Formula

$y \sim \text{CONDITION} + \text{Error}(1 \mid \text{subject})$

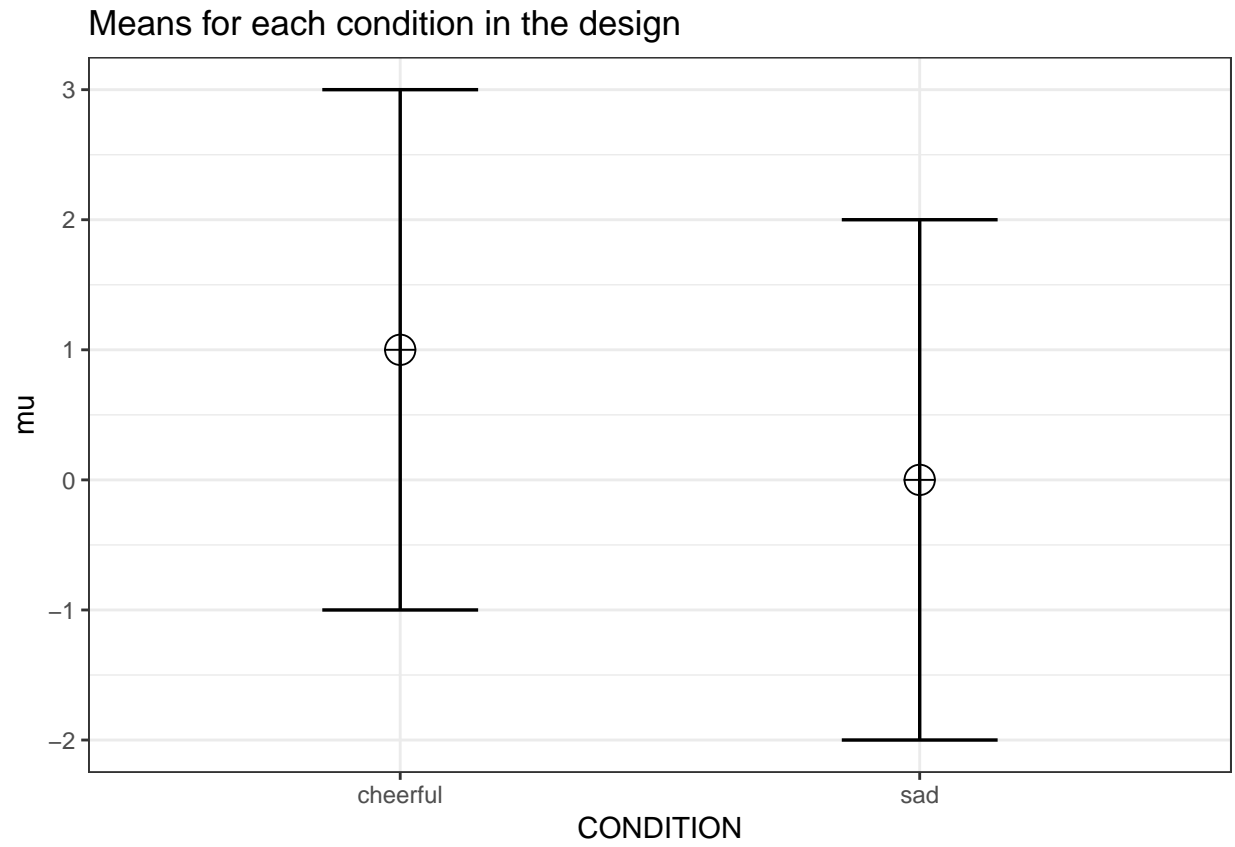
The sample size was **80** per cell with the following adjustment for multiple comparisons: **none**.

Correlation Matrix

X1	X2
1	0
0	1

variance-Covariance Matrix

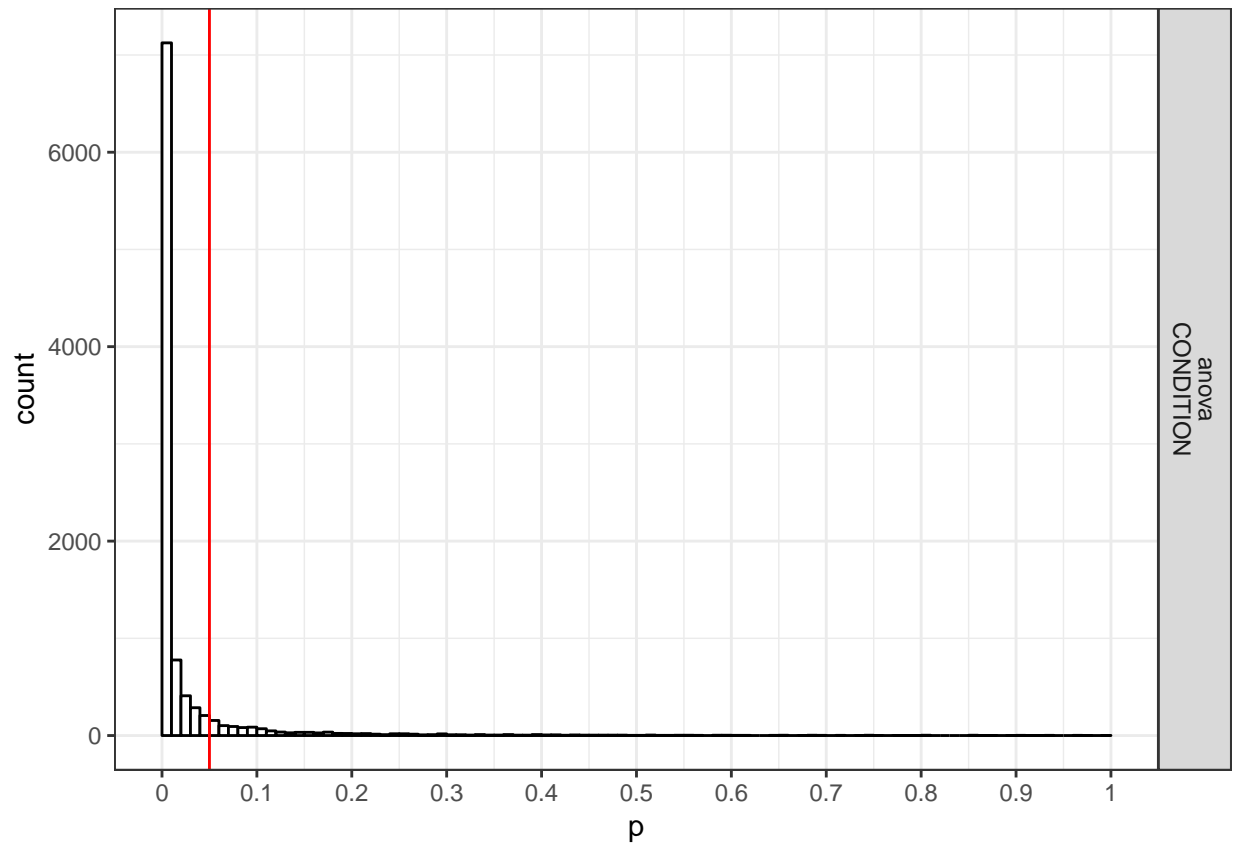
	CONDITION__cheerful	CONDITION__sad
CONDITION__cheerful	4	0
CONDITION__sad	0	4



The seed number for this simulation was set at 2019. A total number of 10000 with an alpha level of 0.05. Please re-use this input to replicate the results below.

ANOVA Power (%) and Effect Sizes (Partial Eta Squared)

	power	effect_size
anova_CONDITION	88.03	0.0595



Multiple Comparisons Power (%) and Effect Sizes (Cohen's d_z)

	power	effect_size
p_CONDITION_cheerful_CONDITION_sad	88.03	-0.5012

