

Type I Sums of Squares dichotomous key

Ken Aho

October 30, 2025

- 1a More than one predictor, and predictors are quantitative, i.e., multiple regression, or predictors are both quantitative and categorical, i.e., ANCOVA.....
Don't use type I SS. Use type II or III SS, e.g., `car::Anova`, or use *t*-tests to evaluate quantitative predictors using `lm()`.
- 1b All predictors are categorical, i.e., ANOVA framework..... 2
 - 2a One factor, i.e., one-way ANOVA.....
Type I SS OK, i.e., type I = type II = type III SS.
 - 2b More than one factor, i.e., multi-way ANOVA..... 3
 - 3a Balanced design.....
Type I SS OK, i.e., type I = type II = type III SS.
 - 3a Design *not* balanced
Don't use Type I SS. Use type II or type III SS, e.g., `car::Anova`.