Type I Sums of Squares dichotomous key

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| 1a | More than one predictor, and predictors are quantitative, i.e., |
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| | multiple regression, or predictors are both quantitative and cat- |
| | egorical, 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 |
| | 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 |
| | 3a <u>Balanced design</u> Type I SS OK, i.e., type I = type II = type III SS. |
| | 3a <u>Design <i>not</i> balanced</u> Don't use Type ISS. Use type II or type III SS, e.g., car:: Anova. |