- Imagine we have 2 factors. Factor 1 with two levels, Factor 2 with three. Our analysis might reveal a main effect of Factor 1 (i.e., a difference between the two levels), a main effect of Factor 2 (i.e., a difference between the three levels) or an interaction between the two…..

- This is a 2 x 3 ANOVA

Corresponds to Factor 1 – it has two levels.

Corresponds to Factor 2 – it has three levels.

Main effect of Factor 1, no main effect of Factor 2 and no interaction

The differences between levels 1 and 2 of Factor 1 are all significant and are of the same magnitude.

Level 1 of factor 1

Level 2 of factor 1

Level 1 of factor 2

Level 2 of factor 2

Level 3 of factor 2