

Analysis of variance - Factorial ANOVA

In the first two videos of this lesson we'll discuss how ANOVA can be extended to analyse the influence of more than one independent variable or factor on a quantitative response variable. By *combining* the levels of each factor with each other we can investigate, not just the effect of each factor separately, but also the combined effect of the factors taken together. We'll see how to perform the corresponding overall tests for each interaction and main effect and how to perform post-hoc comparisons.

In the final video we'll discuss the parallels between Analysis of variance and multiple regression and we'll see that the overall tests in multiple regression and ANOVA are in fact the same.

