## Why ANOVA, why not t-tests?

 So, t-tests are fine if we're just comparing two means.

 In the real world of psychology, we often have more than two conditions.

How could we analyse our data?

 One possibility could be that we do multiple t-tests – but there's a problem with that.

With one t-test, at p < 0.05 level of significance there is a 5% chance of falsely rejecting our null hypothesis (type I error).</li>

 If we have three conditions, then we have three pairs of means to compare (condition I vs condition 2, condition 2 vs condition 3 and condition I vs condition 3).