Or alternatively using functions from the dplyr package:

Now let's run the I-way ANOVA using the *aov* function (part of base R). We are going to assign it to a variable we are calling *model*.

Here's the output we get – the F value is the ratio of systematic variance to unsystematic variation. It is the Mean SS of Condition divided by Mean Residual SS.

To get the Mean Square values we divide the Sum of Squares by the associated degrees of freedom (e.g., 7.343 / 42 = 0.175).