The ANOVA tells us we have an effect somewhere of Condition, but we don't yet know which level of this factor differs from which other level(s).

We need to conduct post hoc tests to figure this out. We can conduct both Bonferroni and Tukey pairwise comparisons using the *emmeans* function - Bonferroni is slightly more conservative than Tukey.

```
> emmeans (model, pairwise ~ Condition, adjust = "Bonferroni")
$emmeans
Condition
                                SE df lower.CL upper.CL
                  emmean
                5.165081 0.1079627 42 4.947204 5.382959
Water
Single Espresso 6.985001 0.1079627 42 6.767124 7.202879
Double Espresso 8.886287 0.1079627 42 8.668409 9.104164
Confidence level used: 0.95
$contrasts
 contrast
                                 estimate
                                                  SE df t.ratio p.value
Water - Single Espresso
                            -1.819920 0.1526824 42 -11.920 <.0001
                                  -3.721205 0.1526824 42 -24.372 < .0001
Water - Double Espresso
 Single Espresso - Double Espresso -1.901285 0.1526824 42 -12.453 <.0001
P value adjustment: bonferroni method for 3 tests
```

```
> emmeans (model, pairwise ~ Condition, adjust = "Tukey")
$emmeans
 Condition
                               SE df lower.CL upper.CL
                5.165081 0.1079627 42 4.947204 5.382959
Water
Single Espresso 6.985001 0.1079627 42 6.767124 7.202879
Double Espresso 8.886287 0.1079627 42 8.668409 9.104164
Confidence level used: 0.95
$contrasts
                                 estimate SE df t.ratio p.value
 contrast
Water - Single Espresso -1.819920 0.1526824 42 -11.920 -<.0001
Water - Double Espresso
                                -3.721205 0.1526824 42 -24.372 <.0001
 Single Espresso - Double Espresso -1.901285 0.1526824 42 -12.453 <.0001
P value adjustment: tukey method for comparing a family of 3 estimates
```

We could set adjust = "none" if we wanted uncorrected p-values. But in this case, both Bonferroni and Tukey comparisons tell us the same thing - each condition differs from each other condition (which fits with what we saw in the graph).