**RStudio Lab Week 4 - Two-way ANOVA**

This lab will test your understanding of the two-way ANOVA with interaction in R. The data in this quiz consists of counts of two different species of insect across seasons. We are interested in finding out if there is any difference in the counts of the different species of insects while controlling for season as well as any possible interaction.

Instructions:

1. Make sure that you have downloaded the dataset ‘insects\_data.csv’.
2. Copy the dataset into your student drive.
3. Make sure you have opened RStudio.
4. Set your working directory to your student drive by using Session – Set working directory – Choose directory, and navigate to your student drive (or wherever you have saved the dataset for this quiz).
5. Insert a new R Script, using File – New File – R Script OR by clicking the white page with the green + button and selecting R Script.
6. Import the ‘insect\_data.csv’ dataset.
7. Find the mean count of each species of insect in each season.
8. Use the **aov()** function to fit a Two Way ANOVA including interaction and store this in an object called **fit.**

Hint: *formula = dependent variable ~ factor 1 + factor 2 + factor 1 \* factor 2.*

1. Use the **summary()** function on the **fit** object to generate the ANOVA table.