Introduction to R and RStudio – Final assignment

Your favourite supervisor knows you just went to do an introductory R course.

They are too busy to analyse a dataset and they want you to prepare something that they can use in a talk.

The dataset is from an experiment examining the effect of vitamin C on tooth growth in guinea pigs that another student conducted. They examined the effect of using different delivery methods of vitamin C (orange juice or ascorbic acid) and then measured the length of odontoblasts (cells responsible for tooth growth) in 60 guinea pigs.

They would like:

1. A plot of cell growths by delivery method (with the exported file from R)
2. A table of summary statistics - mean, standard deviation, standard error, number of samples for each delivery method
3. A summary of a statistical test that compares cell growths by delivery method

They would like you to have all your analysis done within a single folder where the data, R script and output files are kept so that they can reproduce the analysis you conducted and obtain the results they require. You are **not allowed** to make edits to the data file.

Can you start a new RStudio project and complete the task?

Good luck!

Shaun