

Coursework Title: Matplotlib Challenge

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Program: Data Visualization Part-Time

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# Observations and Discussion:

### The original data sets contained duplicate mice in the “study\_results” file. The duplicates were removed to create a merged data frame of all the data.

### The bar chart shows that at the last time point, Capomulin and Ramicane are the most effective drugs with the most number of mice still alive, with Propriva showing the least number of mice alive.

### The proportion of male mice was slightly higher in the study compared to female mice at 50.61% and 49.39% respectively.

### The box and whisker plot shows that Ramicane was the most effective drug showing the least tumor volume.

### The tumor volume has a positive correlation with mouse weight with a R2 value of 0.84.