

Connor Eng 111612084

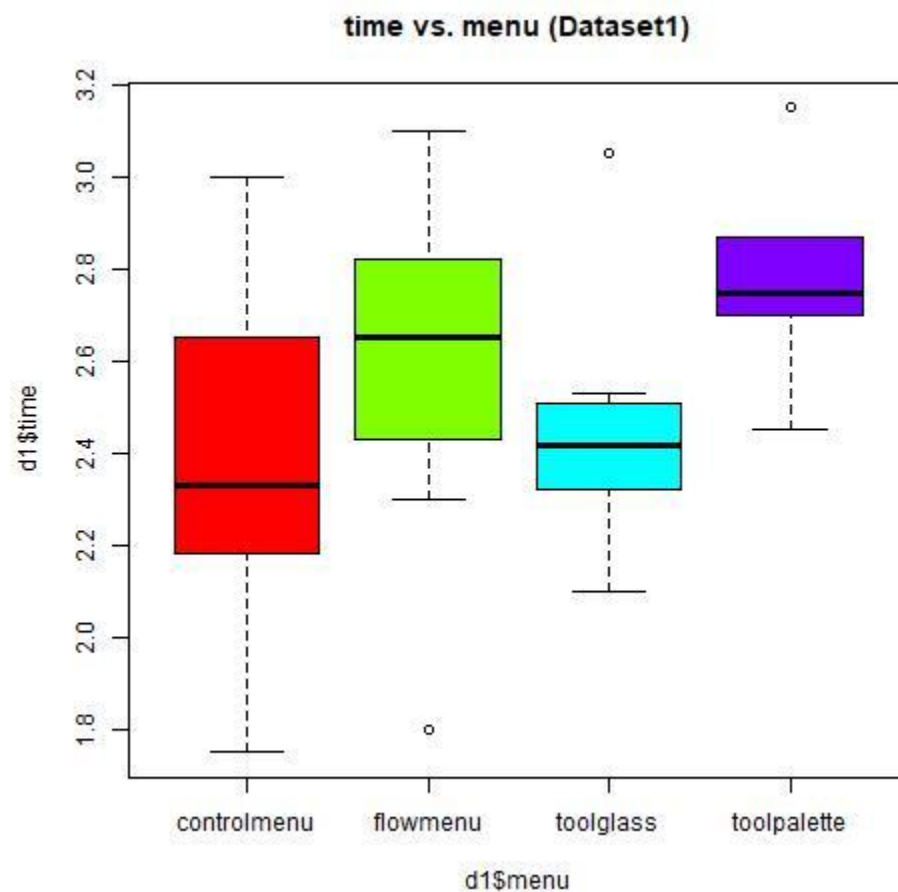
CSE 323 HW3 Report

Question 1

ANOVA: The menu in data set 1 has a greater effect on time compared to the menu in data set 2's effect on time as seen in the higher sum of squares and F value in the ANOVA table for data set 1.

Pairwise-t-test: In data set 1, the t-value for control menu and toolglass is the highest of all of data set 1's t-values which means there is evidence that there is a significant difference.

Boxplot:



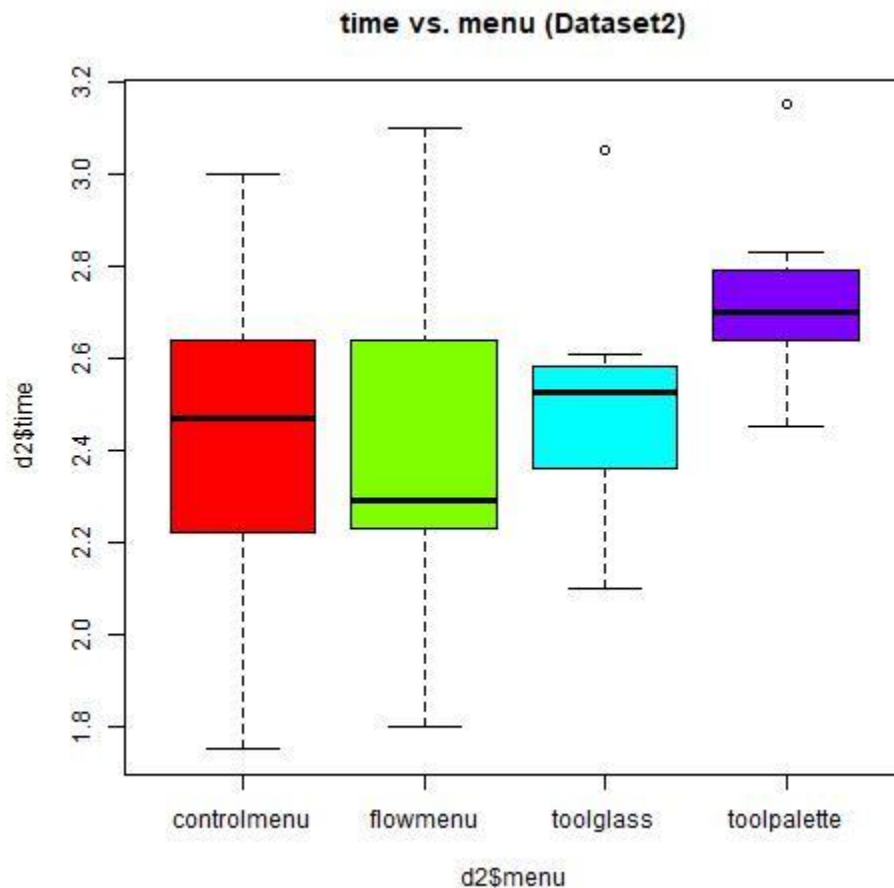
We can see that 75% of the controlmenu has a time greater than 2.2. We also can see that toolglass's median time is around 2.4.

Question 2

ANOVA: The P-value in data set 2 is greater than the significance level, unlike the p-value in data set 1, which means we do not have enough evidence to reject the null hypothesis.

Pairwise-t-test: In data set 2, the t-value for toolpalette and toolglass is the lowest of all the data set 2's t-values which means there is not a significant difference.

Boxplot:



We can see that both controlmenu and flowmenu have 75% of their data above a time of 2.2. We also can see that toolpalette has the highest time outlier just under a time of 3.2.