IT351 – Human Computer Interaction

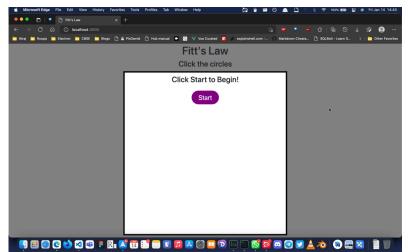
Assignment 1 – Fitts's Law

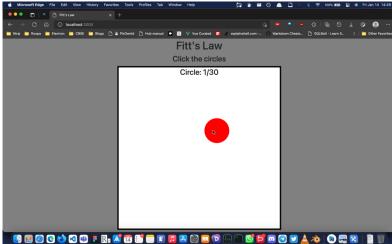
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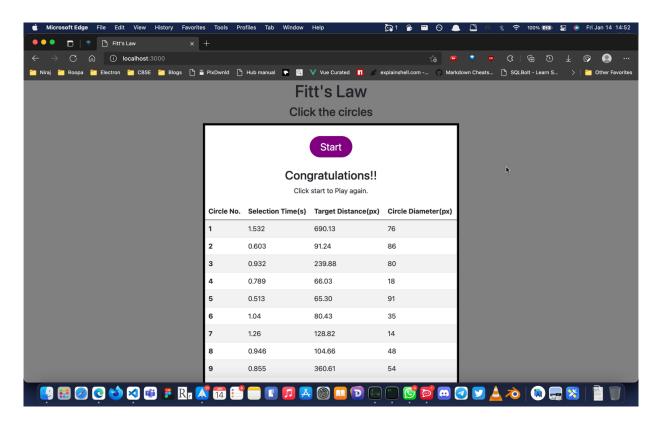
Fitts's Law states that the time taken for a person to move a pointer or cursor to a target area is a function of the distance of the distance to the target divided by the size of the target. Hence, longer the distance and smaller the target's size, longer the selection time.

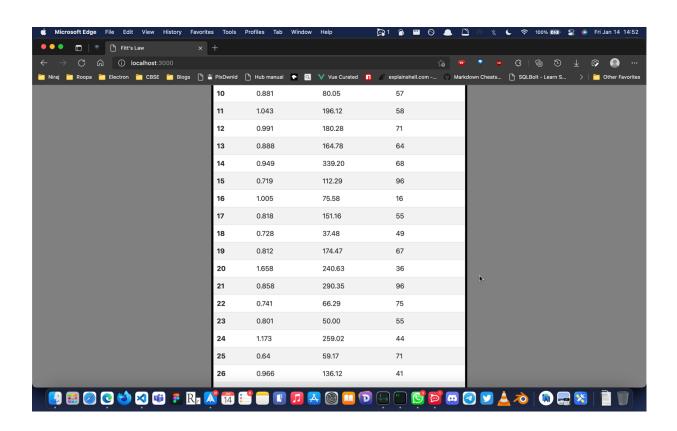
An interface was created to demonstrate this law. The user will be shown 30 circles of varying diameter and made to click on them all the while recording their selection time. A table is shown at the end of the experiment with the selection time, diameter of circle and circle distance from cursor. There is also a graph between diameter of target and selection time of the target. This experiment also compares the difference when using a touchpad and a mouse.

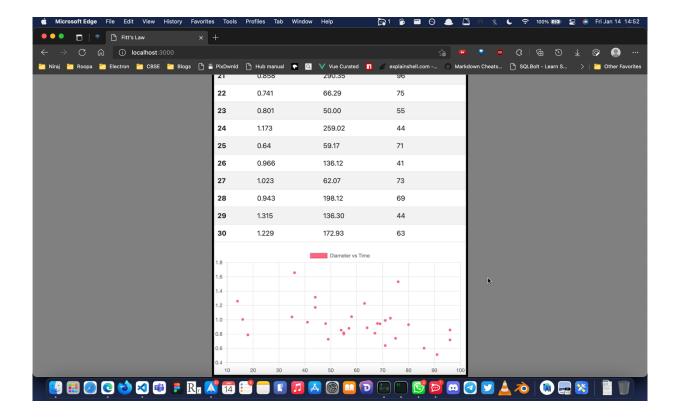




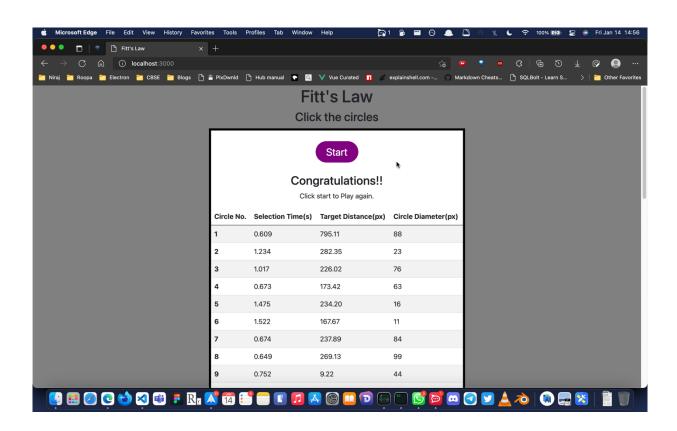
Results when using Touchpad

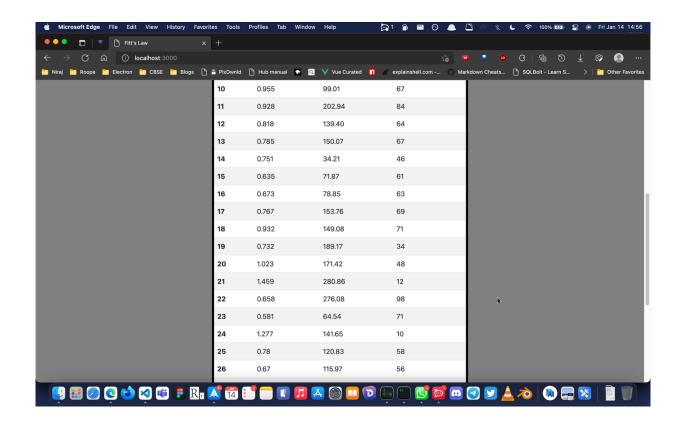


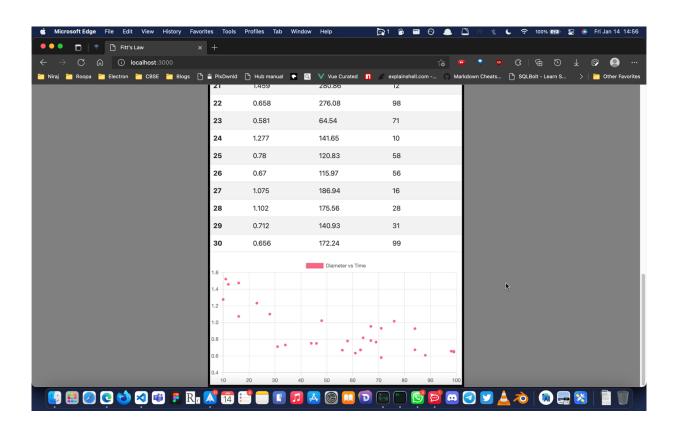




Results when using Mouse







Conclusion – From the above graphs and tables, we can see that the average selection time for mouse is lesser than when using a touchpad. Hence, using a touchpad increases the target selection difficulty as compared with a mouse.