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**Project 05 Report**

1. **Explain the graph of the data?**

The graph of the data represents a boxplot showing which wifi has the fastest link speed based on the location it was collected. According to the graph that was generated, it seems that the coffee shop Tom N Toms has the fastest link speed amongst all the other café places with a median of 263 Mb/s. Midori Matcha though, has the slowest link speed compare to all the other shop clocking at 65 Mb/s. Both Starbucks and Capital One Café however, have medians on the upper quartile. Overall, the medians for all the coffee shop seems to vary.

1. **Description of the data collected.**

I went to 4 different coffee shops around Los Angeles to see which coffee shop has the fastest link speed for their wifi. I went out to collect around 170-180 worth of data for each coffee shops to get as accurate as possible with the results. Each data that was collected consist of Link Speed, Ip Address, Longitude, Latitude, Altitude, Streets, State and Zip Code, and Country. The data was collected by using a StringBuilder to append each data that was presented into csv format and then when the data is ready to be saved, the data is then exported to an online drive or email as a “.csv” file. After the data was collected I used R to extract the Link Speed from each dataset of a coffee shop’s information, and then formed a single graph with all the coffee shops included.

1. **Conclusion**

After collecting the data and forming a graph, it shows that some coffee places has tremendously better link speed than the others. However, some coffee shop may have tremendously slow link speed than the other coffee shops. Though, I believe that there are times that wifi in those coffee shop runs the best. It may be just that time when I visited a coffee shop that the link speed was running slow, but there are places where wifi always have a slow link speed. In the end, all that matters is that a coffee shop is good to study when there is wifi available.