Jacky Chow 113268425 CSE310 Programming Assignment 1 part b
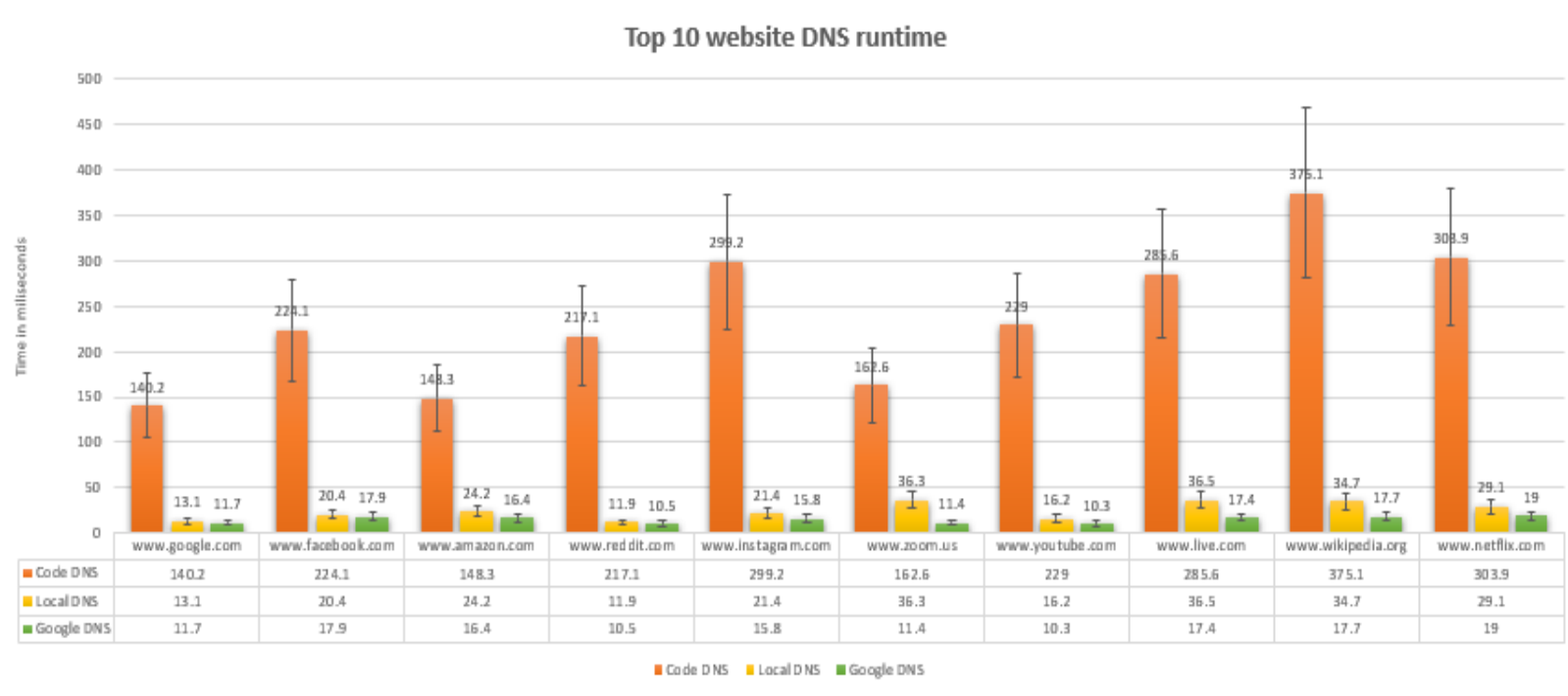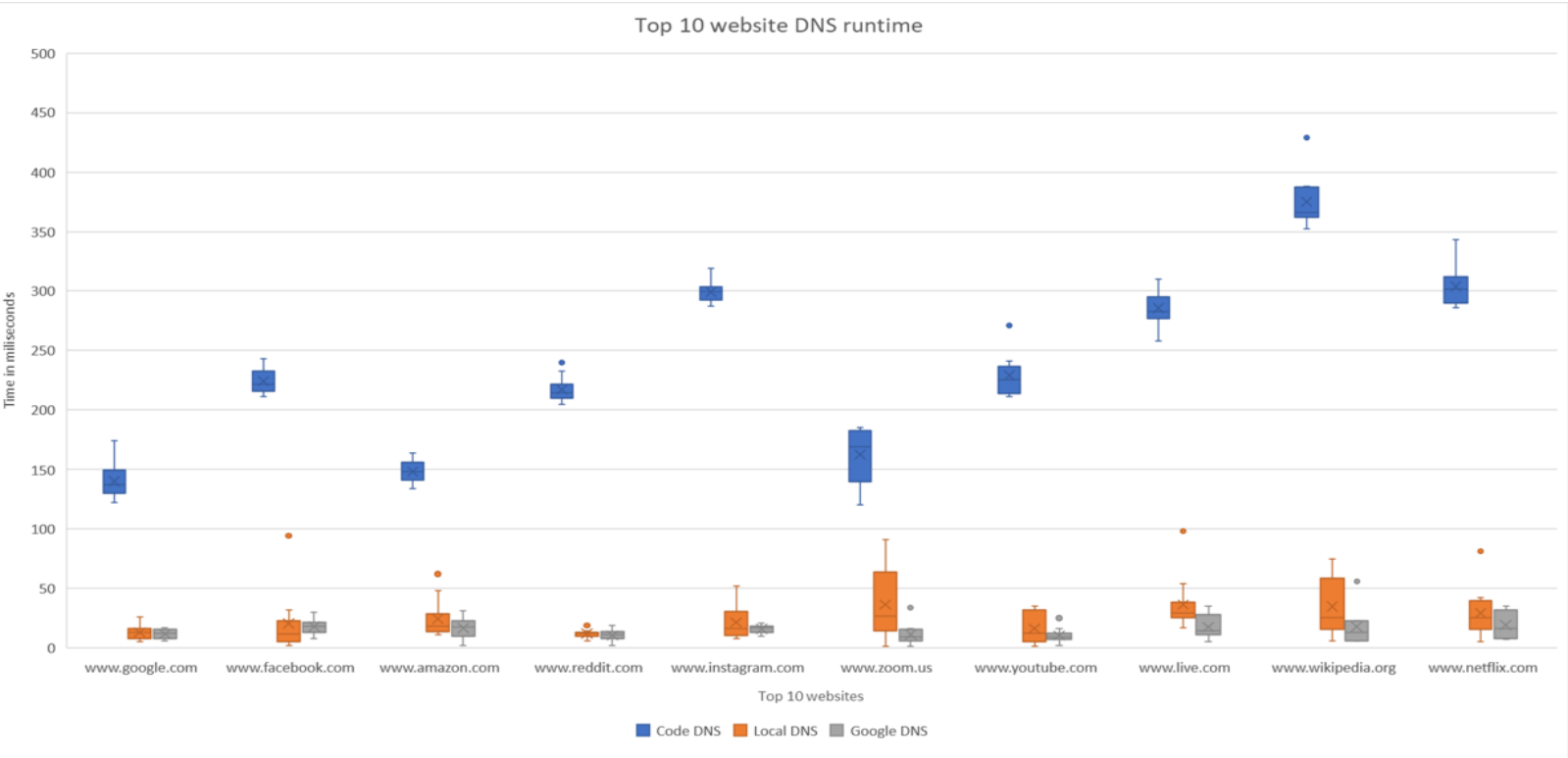
Note: I provided two versions of graphs to provide more clarity since it might be confusing to read the box plot.
Image 1: Box Plot Model of data
Image 2: Bar Graph Model of data

Top 10 website DNS runtime

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	www.google.com	www.facebook.com	www.amazon.com	www.reddit.com	www.instagram.com	www.zoom.us	www.youtube.com	www.live.com	www.wikipedia.org	www.netflix.com
Code DNS	140.2	224.1	148.3	217.1	299.2	162.6	229	285.6	375.1	303.9
Local DNS	13.1	20.4	24.2	11.9	21.4	36.3	16.2	36.5	34.7	29.1
Google DNS	11.7	17.9	16.4	10.5	15.8	11.4	10.3	17.4	17.7	19

Conclusion:

After running each of the websites 10 times using my code, local DNS, and Google DNS, I have gotten the result that the code DNS will take the longest query time to obtain the response, possibly because of the usage of an external root server, and my local DNS will be the second quickest query time using dig command on my command prompt terminal, while Google DNS is slightly quicker than my local DNS and as a result the quickest out of all three.

All of my code DNS took longer than 140 ms to obtain a response, which is significantly slower than my local DNS and Google DNS. While local DNS takes an average of 20ms to obtain the response, Google DNS takes around 15ms to obtain the result, which is a slight advantage.

However, my conclusion may not be the same or absolutely accurate compared to other computers due to different factors that come into play.