CSCI 4210U – Proposal

Information Visualization

Matthew Clark   100429906

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I, Matthew Clark, certify that this work is my own, submitted for CSCI 4210U in compliance with the UOIT Academic Integrity Policy.

Proposal

      I would like to explore the education databases on the Open Canada website, Open Ontario Open Toronto website. I would explore questions like which regions of Canada are getting the highest test results, I would relate this to information regarding, location, class size, school boards and grades. I would like to see if there are trends that appear in different grades or parts of the country, province or city(Toronto) that have significant drops in quality, class sizes or test results.

      This data would be represented on a cloropleth defined by school regions, cities or provinces. This would be an interactive program that would take advantage of d3js's ability to create maps and use the data.

      In these datasets I have found information regarding primary school class sizes, as well as public school enrollment and enrollment by grades. Other information I have found has been school enrollment by gender. I would be representing the data as colours on the map and allow the user to select which type of information to display. I will also have more information on the city of Toronto using the open Toronto data and may focus different targets areas with that, for example I could use information about the cost of housing in Toronto and compare that with test scores in the same area.