

# CISC 251 - Exercise Sheet 1

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SEPT 16 2022

## Question 1:

Keep a daily of data collection for one day of this week.

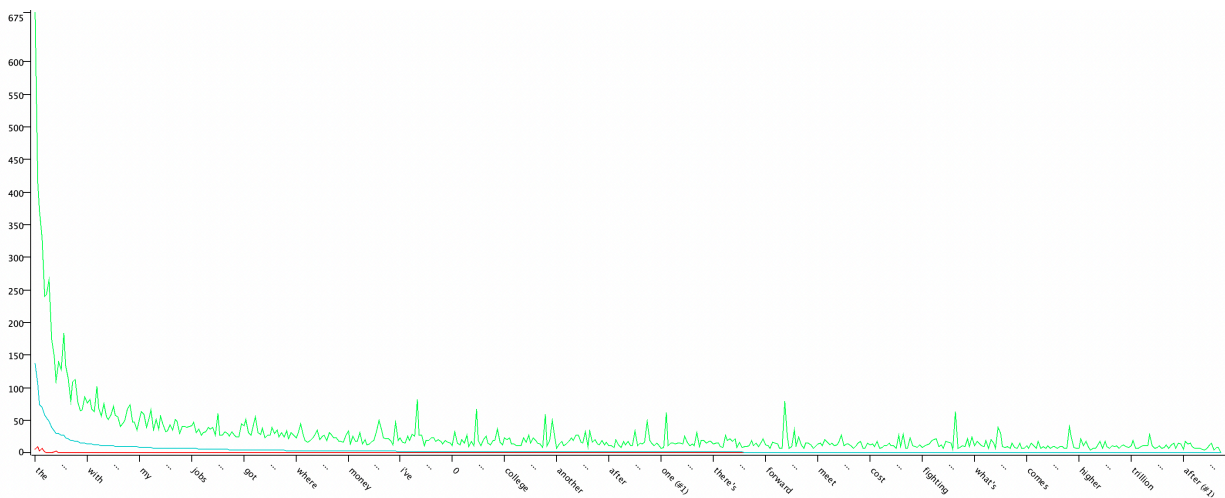
Sept 14, 2022 Diary:

| Data Collected                                    | Reason for Collection   | Data Collection breakdown  |
|---|---|--|
| <b>Wordle completion.</b>                         | Played Wordle online.   | Data collected upon game complete, data would include time of completion, amount of guesses, game success. |
| <b>Starbucks items purchased recorded in app.</b> | Bought two items from Starbucks in the app.   | Data collected would include the inputted items and location of pickup.                                    |
| <b>Credit card data collected by Starbucks.</b>   | Paid on credit card for items bought.   | Data would include all credit card information, name, item prices, taxes.                                  |
| <b>Queens Secure app - negative Covid status</b>  | Had an appointment at the Queen's health centre and needed to show the SeQure App status. | Data collected would include name, student ID, and all symptoms/health status.                             |
| <b>Gym student ID card scan</b>                   | Went to the ARC gym at Queen's and had to scan my ID card to get in.                      | Data collected would be the data stored on my ID card, verifying student status.                           |
| <b>Fitness app input</b>                          | Inputted my workout and food intake into a fitness app.                                   | Data collected would include food, exercise, caloric data for both of them, body calculations from inputs. |
| <b>OnQ discussion participation</b>               | Participated in a OnQ discussion post.  | Data collected would be the words typed, and the student profile attached to the response.                 |
| <b>FaceID scan</b>                                | FaceID used to unlock my phone.   | Data would be the bio-markers of my face and my profile.   |
| <b>Fingerprint scan</b>                           | Fingerprint scan used to unlock my laptop.  | Data collected would be my unique fingerprint.   |
| <b>Text messages/SMS</b>                          | Texts throughout the day to various people.   | Cell phone company would collect data of sender profile and location, and receiver profile.                |

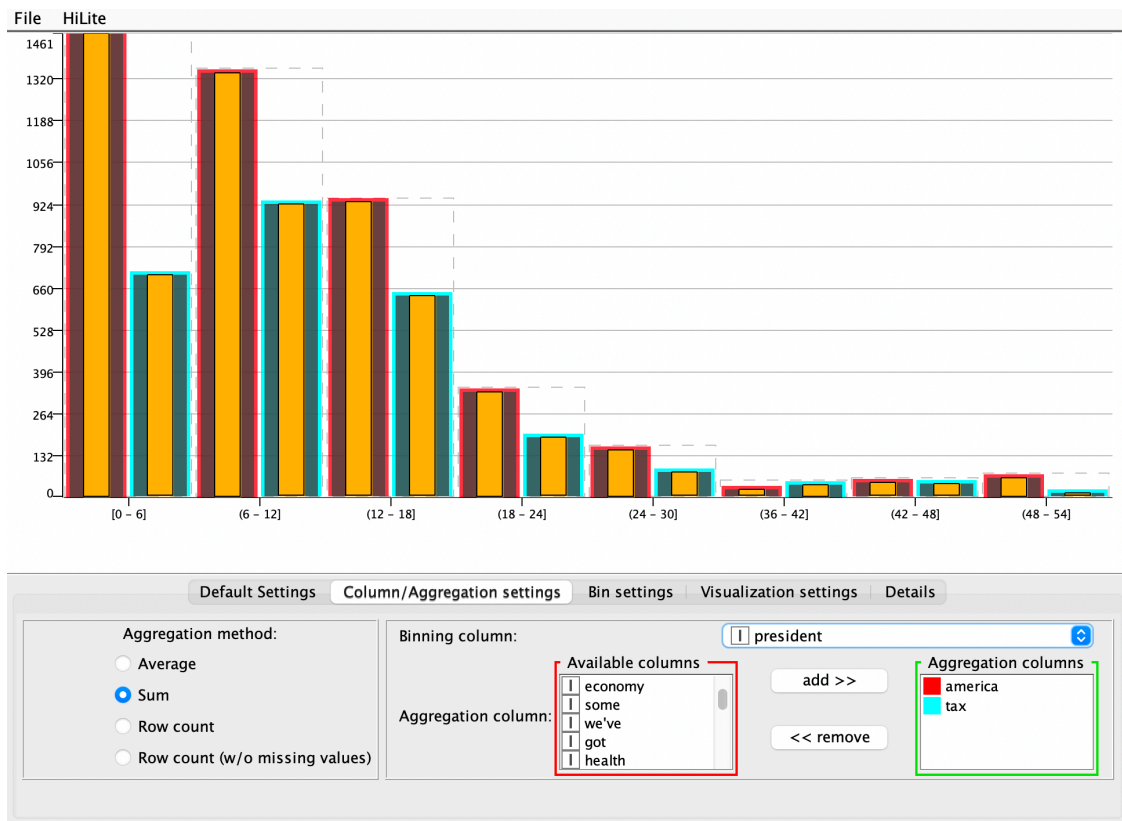
| Data Collected                       | Reason for Collection   | Data Collection breakdown  |
|--------------------------------------|---|--|
| <b>Corner store Apple Wallet use</b> | Payed for food from my corner store using the tap-Apple Wallet. | Data collected would be my credit card information, faceID to unlock my wallet, items purchased, time and date of purchase.  |
| <b>At-home WiFi use</b>              | Use of WiFi at home.  | Internet company would collect the time and date of usage, sites visited, speed of internet, size of downloads.  |
| <b>At-school WiFi use</b>            | Use of WiFi on Queen's campus.                                  | Queen's internet provider would collect the time, data and site visited, as well as personal profile and authentication. Also other factors like size of downloads, speed of internet. |

## Question 2:

I chose to produce three different views of the data. Firstly, I found the min, max and mean use of the words in the .csv file. This shows the words throughout the speeches. For example, the most used word is 'the' which is used a maximum of 675 times in one speech, and very few times in another speech. The mean use of this word is about 140. See graph here:



The second way that I manipulated the data was I looked at the amount of times words were used together. In this example, the sum of times president and America, versus president and tax were used. This is represented in a bar graph here:



The final graph produced out of this data was a parallel coordinates chart. These lines represent the amount of times the selected words are spoken over each other. These lines are selectable, and it can be tracked across each instance of the word. For this chart, I chose the words 'economic', 'security', 'freedom', and 'students'.

