

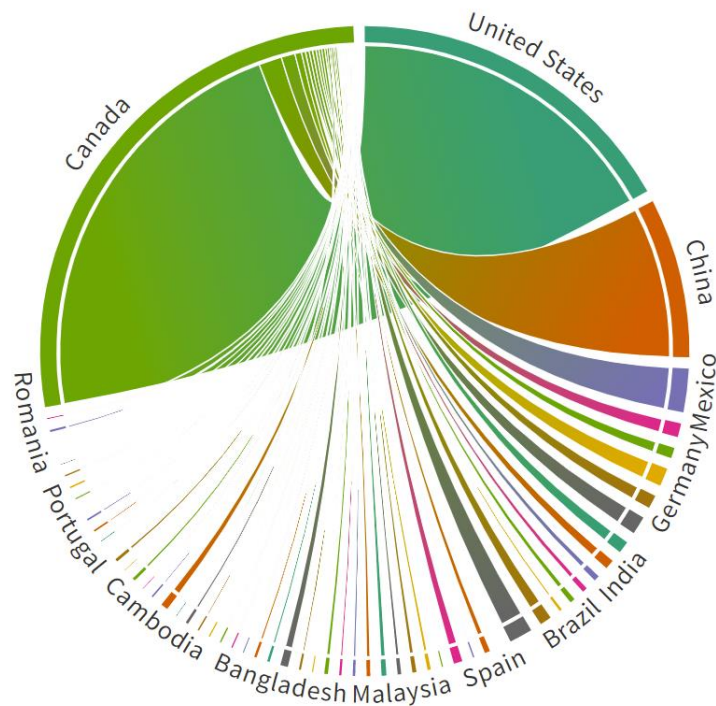
Assignment 4

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As I have improved my knowledge about data visualization, the more fun and challenging I find it. For this Homework, I decided to work with Canadian Import and Export data. The reason I choose this data is because I wanted to work with different graph types using the trade flow between two or more entities.

For my first graph I decided to work with a chord diagram to determine which arc has is valued more based on the importance of the flow. From my findings I can assume that Canada and United States have the largest highlighted arc. Thus, Canada trades the most with United States.

2017 - 2020 Canadian Exports and Imports

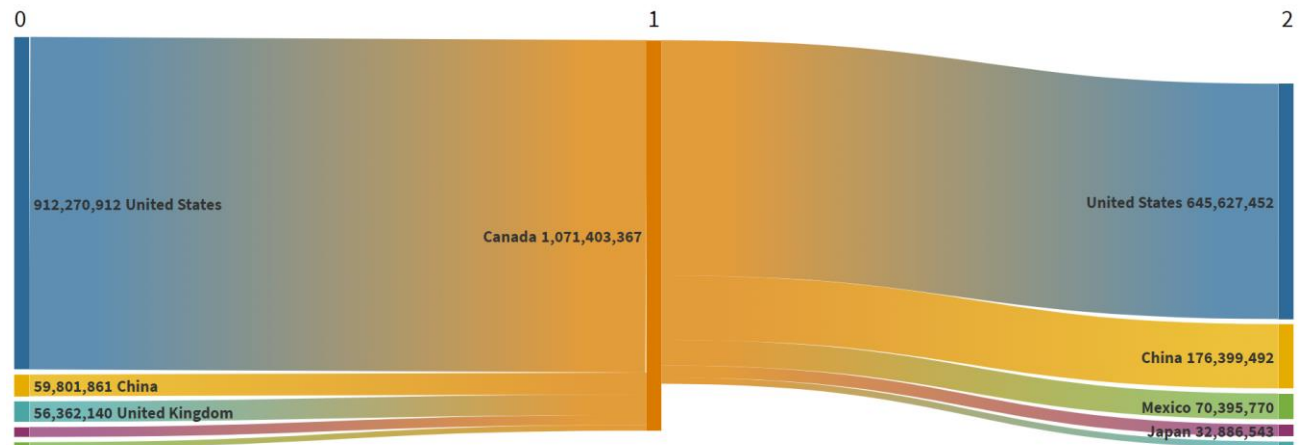


For my Second plot, I choose to work with multi-step alluvial Sankey Diagram. Upon learning about Canadian's top trader's, I wanted to determine the net profit and loss of the recent fiscal year using its top trading partners. From the plot we can suggest that Canada has made profit last year, however China, Mexico and Japan have a positive flow of cash.

Exports and Imports of Canada in 2020

Canada's Top 5 Trading Partner's

1 Here represents Canada

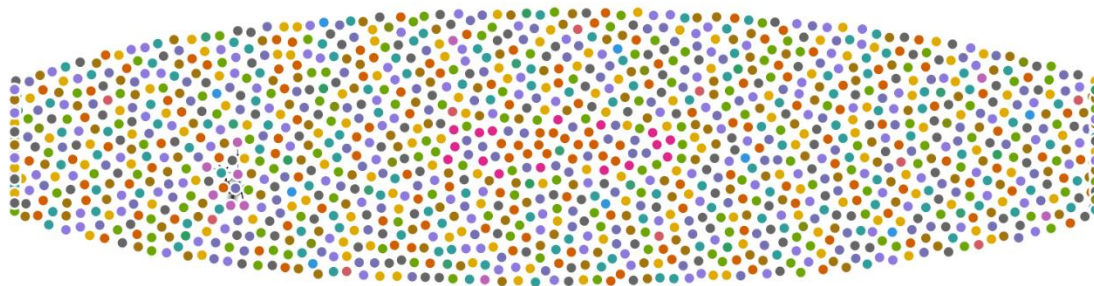


For my third plot I decided to work with a basic network graph. I wanted to determine what categories of the trade between Canada and its top 5 trading partners had the highest demand with Canada. However, I was unable to determine my hypothesis.

Classification of traded items

Classification by Broad Economic Categories Rev 5 (BEC5)

- Total of all Broad Economic Categories Rev. 5 (BEC5) codes [1]
- Agriculture
- Mining
- Construction
- Clothing
- Transportation
- Business and Financial Services
- Medical Services
- Government
- Total intermediate consumption [111, 211, 311, 411, 511, 611, 711, 811]
- Total generic intermediate consumption [111210, 211210, 311210, 411210, 511210, 611210, 711210, 811210]
- Total specific intermediate consumption [111220, 211220, 311220, 411220, 511220, 611220, 711220, 811220]
- Total gross fixed capital formation [112, 212, 312, 412, 512, 612, 712, 812]
- Total final consumption [113, 213, 313, 413, 513, 613, 713, 813]
- Construction



Flourish Published Link - <https://public.flourish.studio/story/828730/>

Data Source Found using Google database search engine

Data Source - <https://open.canada.ca/data/en/dataset/724f78b0-aff9-40cc-8313-01e1a736f44b>