CS 405 Assignment 1 Report

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Data Selection

To begin with, a data set entitled "Death Rates by Age Group and Gender" is downloaded from TUIK website. Afterwards, a subset which contains the total amount of deats of men and women is selected for the visualization process.

Coding

To begin with, the settings for the viewbox are set, and the objects that a bar chart contains such as rectangle and lines are determined. Using lines X and Y axis are drawn, and their labels as well as the title of the bar chart are placed.

Afterwards, the values for the death rates and years are extracted from the dataset, and they are put in separate JavaScript arrays. Iterating over the values, rectangle objects (bars of the bar chart) having an adjusted size are created, and they are appended to SVG.

Similarly, year values are placed below the bars under the X axis. In addition, X and Y axis ticks are created using lines for better visualization.

At the same time, properties of the objects are set in a separate css file to make the visualization more organized and easier to read.

GitHub Link: https://github.com/Exion007/CS405