CS 405 Assignment 1 Report

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Introduction

In this homework, I used a data from TUIK website (Türkiye İstatistik Kurumu) about the suicide rates over 2009 to 2022. I implemented the visualisations for my bar-graph using Scalable Vector Graphics features in an HTML document.

Visualization and Methodology

SVGs have a coordinate system to create different objects such as line, triangle, dot and many more with the reusage of these symols. I designed the SVG Canvas with viewBox attribute and used different sized and coordinated lines to design the grid lines for my graph.

I used rectangular bars with rect attribute to design the bars of my graph in any size,color and font features.

Moreover, i implement some text annotations to show the data variables and some crucial numbers on the graph.

I plotted the data for suicide speed for years with path attribute of SSVG which allows to draw a trend line over the selected coordinate points. Furthermore, rectangle attribute helped me to create the red dots for the specific points on the graph.

Finally, I used some helpers such as fill, stroke, stroke-width and transform to customize my graph. Also, i created a CSS file for the

viewBox to add aditional styles for my HTML file to improve the visuality of my graph.

By completing according to this methodology, i have created an bar graph of the data about suicide rates to analyze the trends and important numbers visually.