

CS 405 Assignment 1 Report

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Introduction

In this homework, I used data from the TUIK website (Türkiye İstatistik Kurumu) about the suicide rates from 2009 to 2022. I implemented the visualizations 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 lines, triangles, dots, and many more, with the reuse of these symbols. I designed the SVG Canvas with the viewBox attribute and used different-sized and coordinated lines to design the grid lines for my graph.

I used rectangular bars with the rect attribute to design the bars of my graph in any size, color, and font feature. Moreover, I implemented some text annotations to show the data variables and some crucial numbers on the graph.

I plotted the data for suicide rate for years with the path attribute of SVG, which allows me to draw a trend line over the selected coordinate points. Furthermore, the rectangle attribute helped me 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 additional styles to my HTML file to improve the visuality of my graph. By completing this methodology, I have created

a bar graph of the data about suicide rates to analyze the trends and important numbers visually.