

Basic Data Visualization using SVG's – HW1

Data Selected: İzmirdeki kaba ölüm hızı

İzmir 5,7 5,6 5,8 5,8 5,5 5,7 6,0 6,2 6,2 6,2 6,4 6,8 7,8 7,3

Methodology:

First I started by creating the SVG Canvas and the viewport. I created a 1000px X 500px view port and 200 x 100 View box to make the calculations easier. Then I created the X and Y axis's of the graph. I selected to starting points to make the graph look clean from the border and to make calculations easier. Then I created the Y Axis labels. The data I chose has data from 5.5 to 7.8 so I set the beginning points as 5 and the end point as 8. I chose 5 instead of 5.5 to make the graph look nicer. I then divided the points between the integers to create labels for the decimal point numbers and added them as groups. After that I created the X Axis labels which are the years that the data is available from.

After the preparations were done I calculated the spacing and width for each Bar on my Bar Graph. I chose 5 for the width and 12 for my spacing. After that I calculated the height and Y starting point for my Bar's. The starting points were the points I created the label's from and the height is the value that makes it reach the bottom. Doing this gave me all the bars I needed. I also gave them alternating colors so they looked nicer.

In the end I added a path variable that started from the Y Axis and the initial value and went through the top of each bar. This gave me a way to visualize the change.

