In this work, a visualization of a part of the dataset “il ve cinsiyete gore intiharlar” was performed using pure javascript and html, as a SVG graphic. From the dataset, data for the biggest 10 cities of Turkey in terms of population were taken. The values then were hardcoded into the code as a dictionary object.

Inside the html, there is one SVG element with three sub-components; x-axis, y-axis, and gender-chart. Everything is grouped together so that it’s easy to move them around using the `transform` property. The `path` and `line` tags were used to create the lines for the axes, and `text` was used for labeling.

Within the code, first some data manipulation is made. Then rectangle objects are created for the data, using a fixed width and variable height depending on the computed value, which in this case is the ratio of a province’s suicide numbers with the total suicide amount. All rectangles are separated equally.

Then the tick lines and texts are created using a group (g), lines and texts. Thickness and locations of the tick marks are computed inside a loop and drawn accordingly. Methods ‘setAttribute’ and ‘appendChild’ were used for this.

Then another line that shows the ratio of male/female for suicide amounts were drawn as well. The path data was created as a collection of points to describe a path, and tick marks were placed as circles on each corresponding city. Finally, the right-side of the y-axis was used to draw tick marks again, similar to the previous step, using proportional values and setting the correct location attributes.

