Two datasets were used: “intihar sayisi ve kaba intihar hizi” and “temel olumluluk gostergeleri”. The infant mortality and suicide numbers between the years 2009-2022 were investigated.

The methodology is simple. Using only a single html file and svg elements, the hard-coded values were plotted. First, an svg object of width 1120 and height 500 px were created. Inside, a title is placed as a <text> object by specifying its `x` and `y` coordinates. Then the axes were defined using <line> objects. The `stroke` property controls the color, and a line is drawn using `x1`, `x2`, `y1`, and `y2`. The y-axes labels were created manually using again <text> objects with `text-anchor` as `end`. In order to create the x-axis labels, a dynamic approach was employed using the <script> tag and simple javascript. Inside a for loop, multiple <text> objects were created with a regular offset from each other.

A similar approach was used to plot the bars. Using code, each <rect> object was placed in regular intervals, and their height was set by scaling according to the maximum value of the graph. The equation or scaling is:

scaledValue = (value - minValue) / (maxValue - minValue) \* (totalHeightOfGraph)  
Again, using a nested for loop for two datasets, the bars were created. CSS was used with different `fill` properties to give them different colors.

The line for mortality rates was drawn using <polyline> because it passes through multiple points. The same scaling function was used for the mortality rates, which is displayed in the right-side axis. Finally, the legends were created, using <line> and <rect>s with appropriate colors. The final graph is as follows

