CS405 Assignment 1 Report Akif Işıtan

Methodology

Manually convert the selected data point shown in figure 1 into a list of lists to easily interpret with JavaScript. Write a helper function to create SVG to visualize in the DOM. Choose a width of 850 and a height of 500 for the SVG in order to visualize it properly in the browser. Break down the elements into categories.

- 1. X and Y axis of the chart: <line> SVG elements
- 2. Chart bars: <rect> SVG elements with a width of 20px
- 3. Chart value labels: <text> SVG elements with a transform property of 270 degrees
- 4. X and Y axis labels: <text> SVG elements
- 5. Legend labels: Adjacent <rect> and <text> SVG elements

Create Y axis values ranging from 0 to 10000 with a step of 1000. For each year in the data, create a <text> element in the X axis, calculating the position according to the index of the year. For each pair of datapoints in the data, first calculate the male bar size and position and create a red <rect> element, then calculate the female bar size and position and create a blue <rect> element. The resulting chart can be seen in figure 2.

A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	P
Il ve cinsiyete	göre bebek öl	ümleri, 2	009-2022	2											
Infant deaths b															
[İkametgah yer	ine göre-By the	place of u	sual resid	ence]											
	Cinsiyet				Y ıl-Year										
il-Province	Sex	2009	2010	2011	2012	2013	2014	2015	2016	2017 ^(r)	2018 ^(r)	2019 ^(r)	2020 ^(r)	2021 ^(r)	2022
Türkiye-Türkiye	Toplam-Total	17 607	15 164	14 567	14 974	14 027	14 951	13 677	12 910	12 134	11 718	11 022	9 757	10 089	9 522
	Erkek-Male	9 541	8 242	7 843	8 022	7 601	8 212	7 440	6 994	6 598	6 360	6 065	5 388	5 498	5 289
	Kadın-Female	8 066	6 922	6 724	6 952	6 426	6 739	6 237	5 916	5 536	5 358	4 957	4 369	4 591	4 233
Adana	Toplam-Total	566	480	490	452	538	527	395	380	340	293	286	292	354	325
	Erkek-Male	298	259	272	225	296	303	226	224	178	146	159	152	199	190
	Kadın-Female	268	221	218	227	242	224	169	156	162	147	127	140	155	135
Adıyaman	Toplam-Total	232	189	194	191	167	165	150	171	145	134	136	108	135	111
	Erkek-Male	120	101	101	106	102	91	76	86	81	77	75	55	61	56
	Kadın-Female	112	88	93	85	65	74	74	85	64	57	61	53	74	55
Afyonkarahisar	Toplam-Total	179	131	135	161	136	108	107	98	89	96	91	79	74	78
	Erkek-Male	89	64	81	91	70	55	56	65	50	54	58	47	42	38
	Kadın-Female	90	67	54	70	66	53	51	33	39	42	33	32	32	40
Ağrı 3 1	Toplam-Total	207	285	375	300	273	242	244	223	198	165	151	134	162	107
	Erkek-Male	115	156	195	178	145	114	129	121	90	92	90	69	82	52
	Kadın-Female	92	129	180	122	128	128	115	102	108	73	61	65	80	55

Figure 1. Selected datapoint

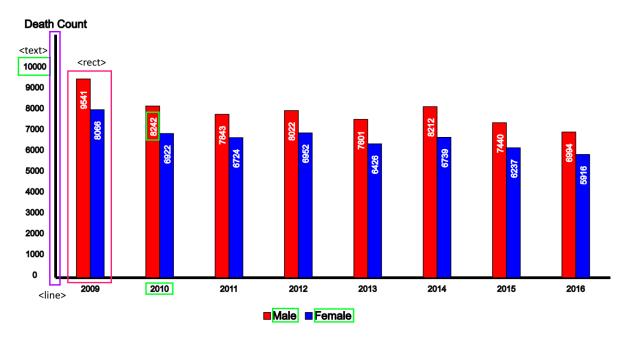


Figure 2. Labeled Final Chart