CS 405 Assignment 1: Basic Data Visualization using SVG's
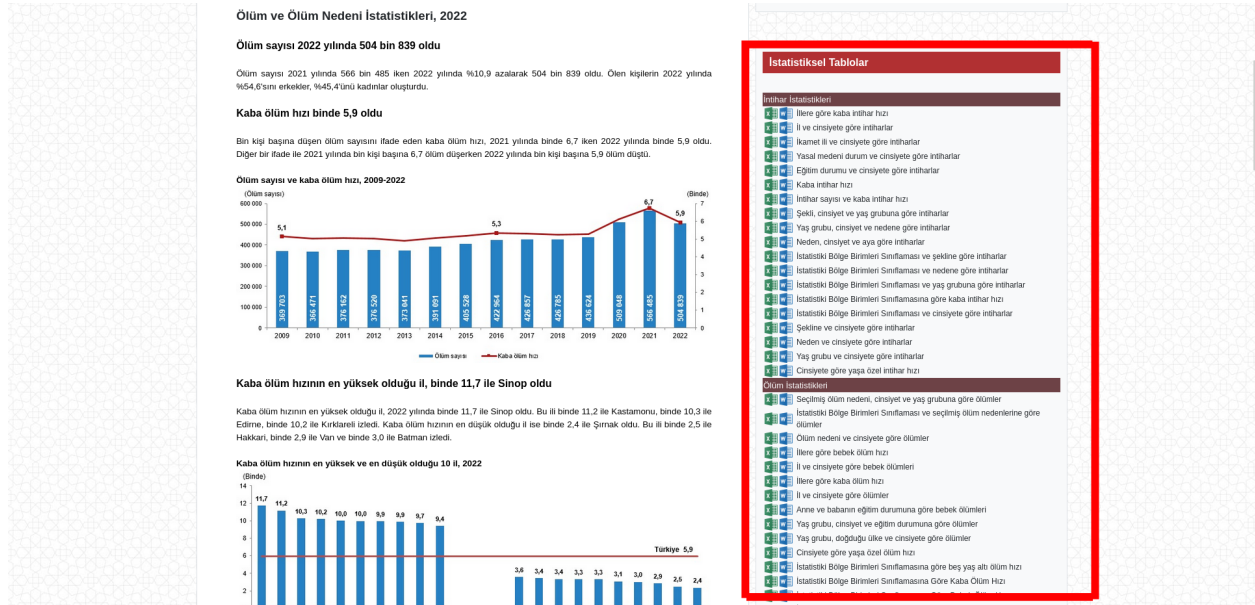
For this assignment, you will design a basic SVG data visualization by using the data from the TUIK website.

Instructions

Please go to this website:
https://data.tuik.gov.tr/Bulten/Index?p=Olum-ve-Olum-Nedeni-Istatistikleri-2022-49679

Choose a dataset from the list:

Download the **Excel** file of the dataset you choose. After downloading the xsl file, please choose the data you want to visualize from the Excel file.

İstatistiki Bölge Birimleri Sınıflaması ve cinsiyete göre intiharlar, 2000-2022
Suicides by Statistical Regions and sex, 2000-2022

Olay yeri / Place of event (İBBS-SR)	Cinsiyet / Sex	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019(r)	2020(r)	2021(r)	2022
TR Türkiye-Türkiye	Toplam-Total	1 802	2 584	2 301	2 705	2 707	2 703	2 829	2 793	2 816	2 898	2 933	2 677	3 287	3 252	3 169	3 246	3 193	3 168	3 342	3 476	3 710	4 194	4 146
	Erkek-Male	1 114	1 677	1 392	1 574	1 681	1 740	1 782	1 808	1 924	2 111	2 073	1 876	2 377	2 382	2 352	2 358	2 426	2 445	2 529	2 684	2 845	3 263	3 111
	Kadın-Female	688	907	909	1 131	1 026	963	1 047	985	892	787	860	801	910	870	817	888	767	723	813	792	865	931	1 035
TR1-TR10-TR100 İstanbul	Toplam-Total	244	458	315	315	380	334	362	392	370	403	429	387	542	494	446	432	462	504	553	442	520	577	508
	Erkek-Male	175	322	210	204	269	254	254	282	277	315	333	287	395	396	336	327	366	401	427	342	415	458	405
	Kadın-Female	69	136	105	111	111	80	108	110	93	88	96	100	147	98	110	105	96	103	126	100	105	119	103
TR2 Batı Marmara / West Marmara	Toplam-Total	75	114	104	151	171	156	166	172	160	172	169	129	165	158	149	172	177	155	172	201	198	211	228
	Erkek-Male	52	85	76	105	117	114	121	107	107	132	129	102	126	117	119	136	148	123	149	165	160	182	178
	Kadın-Female	23	29	28	46	54	42	45	65	53	40	40	27	39	41	30	36	29	32	23	36	38	29	50
TR21 (Tekirdağ, Edirne, Kırklareli)	Toplam-Total	43	54	54	78	72	69	82	81	91	84	78	66	83	77	65	84	84	71	96	108	92	103	111
	Erkek-Male	30	37	40	54	56	55	66	54	62	67	56	53	69	58	54	68	72	57	80	95	78	91	89
	Kadın-Female	13	17	14	24	16	14	16	27	29	17	22	13	14	19	11	16	12	14	16	13	14	12	22
TR211 Tekirdağ	Toplam-Total	21	21	26	45	27	29	42	45	45	48	39	30	35	43	21	41	39	32	55	58	44	57	70
	Erkek-Male	14	12	18	31	21	22	30	29	32	41	28	25	29	32	18	30	30	23	47	49	35	50	54
	Kadın-Female	7	9	8	14	6	7	12	16	13	7	11	5	6	11	3	11	9	9	8	9	9	7	16
TR212 Edirne	Toplam-Total	16	23	16	9	26	21	25	11	29	21	26	17	28	14	33	26	32	22	20	27	27	26	25
	Erkek-Male	13	18	13	5	20	15	23	5	21	17	21	13	23	12	26	23	29	18	15	27	25	23	20
	Kadın-Female	3	5	3	4	6	6	2	6	8	4	5	4	5	2	7	3	3	4	5	-	2	3	5
TR213 Kırklareli	Toplam-Total	6	10	12	24	19	19	15	25	17	15	13	19	20	20	11	17	13	17	21	23	21	20	16
	Erkek-Male	3	7	9	18	15	18	13	20	9	9	7	15	17	14	10	15	13	16	18	19	18	18	15
	Kadın-Female	3	3	3	6	4	1	2	5	8	6	6	4	3	6	1	2	-	1	3	4	3	2	1
TR22 (Balıkesir, Çanakkale)	Toplam-Total	32	60	50	73	99	87	84	91	69	88	91	63	82	81	84	88	93	84	76	93	106	108	117
	Erkek-Male	22	48	36	51	61	59	55	53	45	65	73	49	57	59	65	68	76	66	69	70	82	91	89
	Kadın-Female	10	12	14	22	38	28	29	38	24	23	18	14	25	22	19	20	17	18	7	23	24	17	28
TR221 Balıkesir	Toplam-Total	16	40	33	49	66	60	53	55	42	57	61	42	53	58	63	58	67	53	57	64	80	72	77
	Erkek-Male	8	32	22	33	43	38	32	32	29	45	51	28	37	42	50	42	56	44	52	48	64	61	57
	Kadın-Female	8	8	11	16	23	22	21	23	13	12	10	14	16	16	13	16	11	9	5	16	16	11	20
TR222 Çanakkale	Toplam-Total	16	20	17	24	33	27	31	36	27	31	30	21	29	23	21	30	26	31	19	29	26	36	40
	Erkek-Male	14	16	14	18	18	21	23	21	16	20	22	21	20	17	15	26	20	22	17	22	18	30	32

For example, male and female suicide amounts between 2000-2014. Once you decide which data you want to visualize, you can start developing your visualizations with SVG. Ultimately, you should acquire visualizations similar to the bar charts on the TUIK website.

Ölüm sayısı ve kaba ölüm hızı, 2009-2022

Important note: Please use the contents shown in lectures and recitations. You can't use existing data visualization libraries, such as d3.js, jqplot, etc in your assignment.

Report

Additionally, we expect you to write a report describing your work. Please include all visualizations you draw in your report. Also, please clearly explain your methodology. **Any submission without the report will not be graded!**

Submission Guidelines

You should upload your work **to both GitHub and SuCourse.**
GitHub: Uploading the codes only is sufficient. Once you upload your code to GitHub, write the repository link to a txt file named github-link.txt and include that file with your submission to SuCourse.
SuCourse: You should zip all of your work (report, the codes, and github-link.txt file) and upload it to SuCourse.

Important: Plagiarism will not be tolerated!