Drexel University

College of Computing and Informatics

INFO 250 Information Visualizations

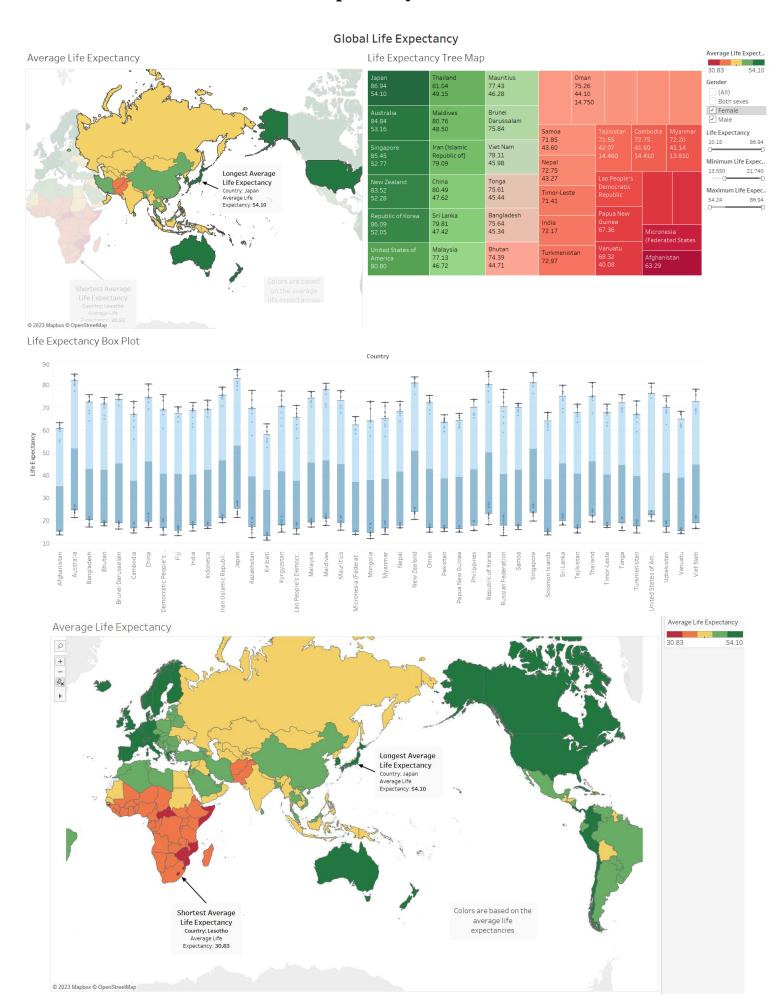
Individual Project 1C

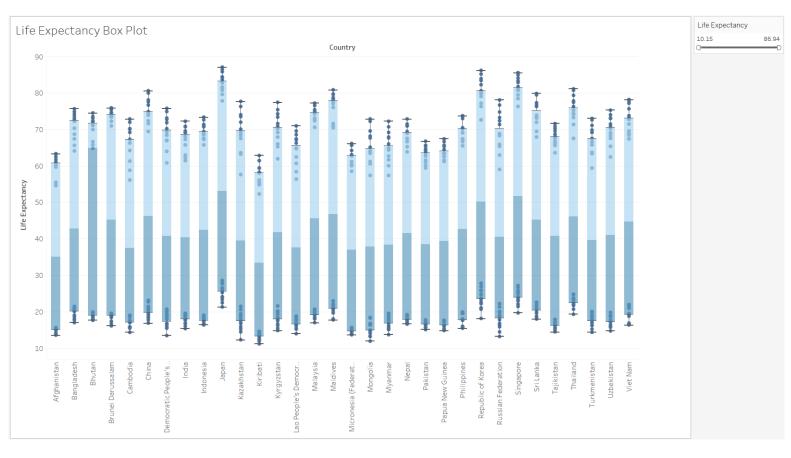
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1. Life Expectancy Visualizations





ife Expectanc	cy Tree Map													Mir 10.1	imum Life Ex 5	21.
Japan	Thailand	Armenia	Tonga	Banglade		eorgia			Iraq		Syrian Arab	Ukraine	Kyrgyzstan			
86.94	81.04	79.16	75.61	75.64		7.76			74.9		Republic	77.81	77.31	Ma	kimum Life E	xpectar
54.10 21.32	49.15 19.35	46.51 16.76	45.44 15.50	45.34 17.11		4.87 5.21			44.6 17.0		75.63 44.38	44.34 14.04	44.14 14.86	54.2	4	86
21.52	15.55	10.70	15.50	17.11		J.21	1	7.71	17.0		15.49	14.04	14.00	0-		
Australia	Jordan	Qatar												Life	Expectancy	for Tre
34.84	78.78	78.03													Linpootainej	
53.16	48.55	46.39								1 0		6 1	T	22.4		E 4
21.22	17.95	15.23	Oman 75.26		Nepal 72.75		Azerbaij 74.09	jan		India 72.17		Sudan 70.76	Tajikistan 71.55	33.0	55	54.
		Mauritius	44.10		43.27		12.89			42.62		42.35	42.07			
Singapore	Maldives	77.43	11.20		16.68		L4.95			15.41		16.19	14.46			
85.45	80.76	46.28			20.00					20.12		20.25	21.10			
	48.50	15.77	Philippines													
19.75	17.80	13.77	73.66													
New Zealand	Iran (Islamic Republic	Brunei Darussalam	43.89									_				
83.52	of)	75.84			Yemer			Lao	Me	ongolia	Papua New	Djibouti	Vanuatu			
52.28	79.09	46.20	Russian Fede	ration	69.58			People's	72	2.76	Guinea	67.78	68.32			
20.46	48.40	16.21	78.00		41.86			Democratic).39	67.36	40.14	40.08			
	0.1	Bahrain	43.85		15.72			Republic 70.95	12	2.00	40.23 14.86	14.92	14.20			
Republic of Korea	China	77.27			Cambo	dia		40.77			14.00					
86.09	80.49 47.62	46.15	Uzbekistan		72.75			10.77								
52.05	16.92	14.46	75.21		41.60						-		7			
18.15	10.92	14.40	43.69		14.41			Pakistan 66.72			nited epublic of		Micronesia (Federated			
Kuwait	United Arab Emirates	Seychelles						39.87				39.14	States of)			
83.95	78.42	77.15	Indonesia		Fiji			33.07			9.26	14.52	66.05			
51.90	47.49	46.14	73.30		70.28 41.55			Ethiopia					38.62			
21.24	17.97	16.57	43.62		13.31			70.52								
		Viet Nam						39.63		Е.	itrea	Kiribati				
	Sri Lanka	78.11	Democratic P	eonle's	Comor	os					7.07	62.80				
	79.81 47.42	45.98	Republic of K		68.88			Solomon Isla	nds			35.52				
80.80	18.06	16.37	75.69		41.28			67.87			L.70	11.28				
	10.00	20.07			15.56			39.59								
	Malaysia	Saudi Arabia	Kazakhstan		Myann	nar										
	77.13	76.15	77.61		72.20						3.29	0 11				
	46.72	45.70	43.40		41.14							Somalia				
19.76	17.03	16.90	.50		13.81					13	3.63	59.22				

Link:

https://public.tableau.com/views/INFO250Project1C/GlobalLifeExpectancy?:languag e=en-US&publish=yes&:display_count=n&:origin=viz_share_link

2. Type x Tool Matrix

		Box Plot	Map Plot	Treemap	Bar Chart	Sankey Diagram
	Support	I	×	\square	\square	\square
RAW	Mapping	Value, range, distribution	N/A	Color, size, hierarchy	Size, color	Size, color, direction
	Data Type	2-dimensional (categorical & numerical)	N/A	Tree (parent & children)	2-dimensional (categorical & numerical)	Network (source, interlayer, end)
	Question 1	How does the Egypt's life expectancy distribute?	N/A	How many major sections are there for carbon emission?	Which year has the highest carbon emission?	Where does oilgenerated energy go to?
	Question 2	Which country has the highest average life expectancy?	N/A	What is the largest source of carbon emission?	What is the trend for carbon emission over the last 20 years?	What method is mainly used for energy for steel?
	Support		$\overline{\square}$	$\overline{\square}$		×
Tableau	Mapping	Value, range, distribution	Color, latitude, longitude	Color, size, hierarchy	Size, color	N/A
	Data Type	2-dimensional (categorical & numerical)	2-dimensional (latitude, longitude)	Tree (parent & children)	2-dimensional (categorical & numerical)	N/A
	Question 1	Which country has the highest upper quartile?	Which country has the longest average life expectancy?	What is the composition of steel industry pollution?	How long do people spend commuting in different cities?	N/A
	Question 2	What is the interquartile range for Japan's life expectancy?	What countries have a relatively low average life expectancy?	How many minor sections are there in fossil fuel pollution?	What is the shortest commuting transportation method?	N/A
	Support		$\overline{\mathbf{Q}}$	Ø		×
ggplot	Mapping	Value, range, distribution	Color, latitude, longitude	Color, size, hierarchy	Size, color	N/A
	Data Type	2-dimensional (categorical & numerical)	2-dimensional (latitude, longitude)	Tree (parent & children)	2-dimensional (categorical & numerical)	N/A
	Question 1	Which stock has the biggest variation?	Which country has the highest GDP in Europe?	Which stock goes up the most?	Which bank has the highest interest rate?	N/A
	Question 2	Which company has the highest stock price today?	Where are most of the low-precipitation countries located?	Which sections of the Dow Jones index go up today?	What is the size of the relative interest rates between different banks?	N/A
matplotlib	Support	$\overline{\square}$	$\overline{\square}$			\square
	Mapping	Value, range, distribution	Color, latitude, longitude	Color, size, hierarchy	Size, color	Size, color, direction
	Data Type	2-dimensional (categorical &	2-dimensional (latitude,	Tree (parent & children)	2-dimensional (categorical &	Network (source, interlayer, end)

	numerical)	longitude)		numerical)	
Question 1	Which stock has the smallest variation?	Does Canada have a relatively high life expectancy?	What are the top 5 countries that have the highest birth rate?	Which bank has the lowest interest rate?	What are the interlayers between the energy flow?
Question 2	Which country has the highest life expectancy for women?	Are Canada and India at the same level of life expectancy?	What are the bottom 5 countries that have the highest mortality rate?	What is the longest commuting transportation method?	What is the biggest source of energy flow?