Drexel University

College of Computing and Informatics

INFO 250 Information Visualizations

Individual Project 1C

Dr. Chaomei Chen

Lixiao Yang

ly364@drexel.edu

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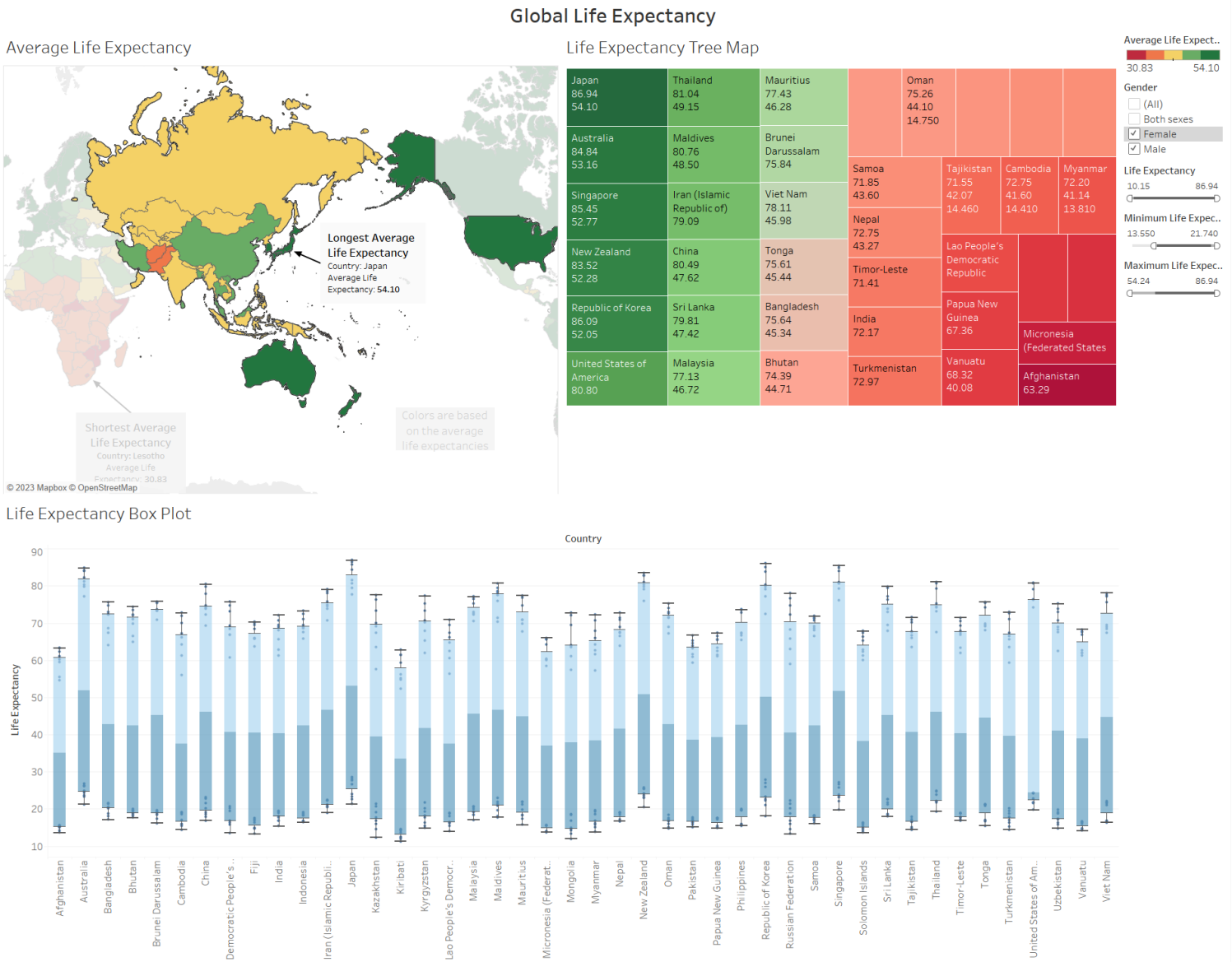
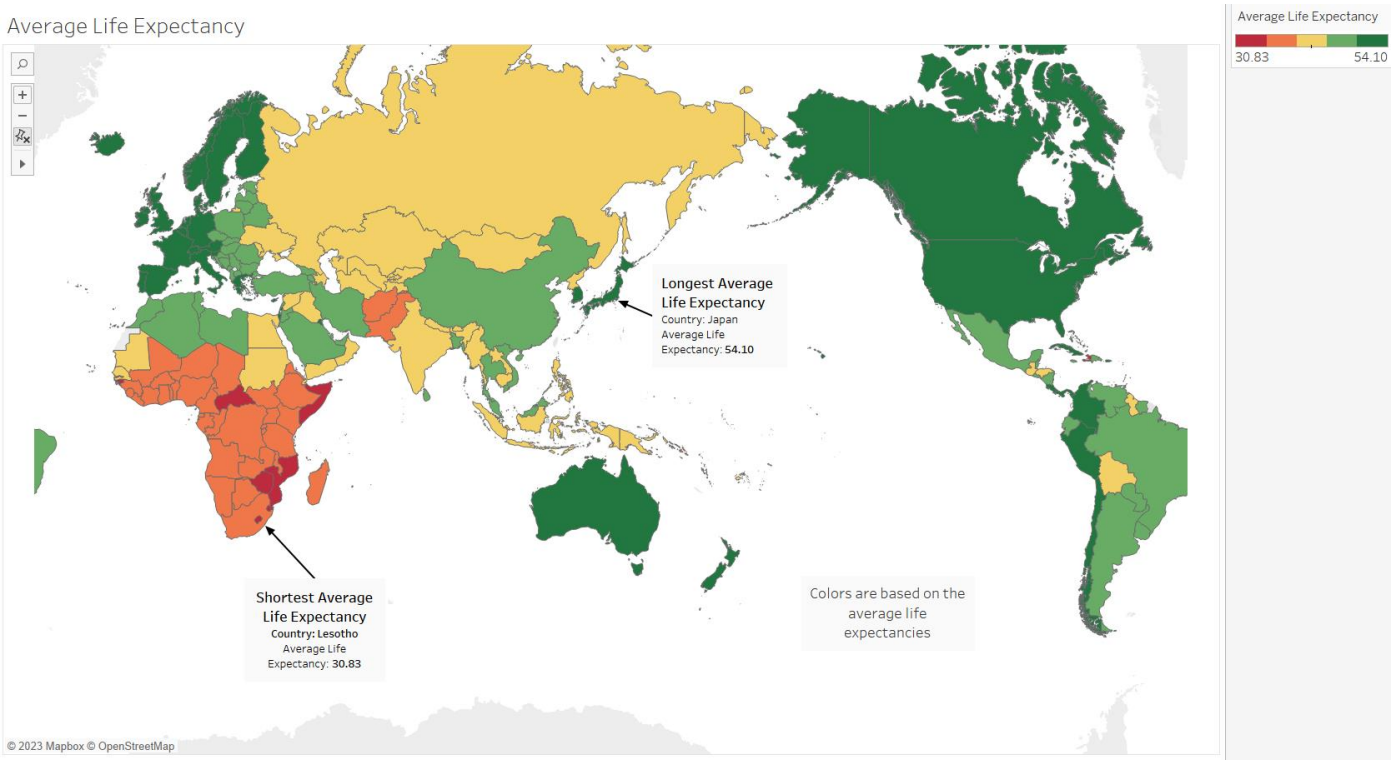
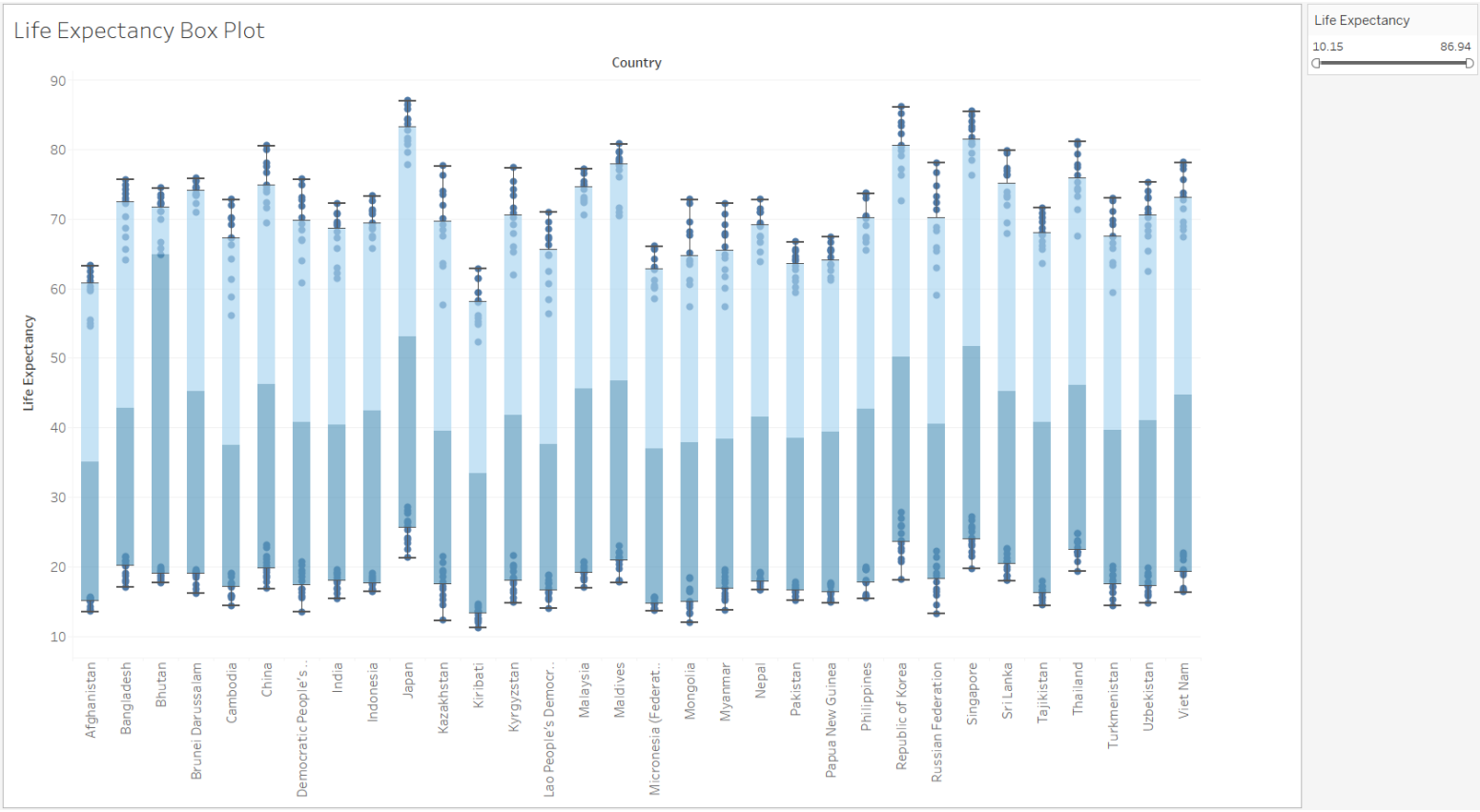
1. Life Expectancy Visualizations







Link:
https://public.tableau.com/views/INFO250Project1C/GlobalLifeExpectancy?:language=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
RAW	Support	☑	☒	☑	☑	☑
	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 oil-generated 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?
Tableau	Support	☑	☑	☑	☑	☒
	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
ggplot	Support	☑	☑	☑	☑	☒
	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	☑	☑	☑	☑	☑
	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?