Our World Data Visualization Recreation

Why

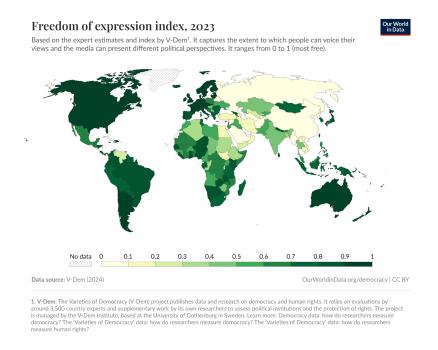
For this assignment, I recreated a visualization based on **Our World in Data's Freedom of Expression Index** for 2023. I chose this topic because I wanted to understand the extent to which people can voice their views, specifically how much the media can voice their opinions freely(ish). This has been something I am too familiar with in regards to India and Kashmir but I have never had objective data as my lens and I also wanted to understand the level of expression freedom globally.

Details, links and reflections about the three methods

1. Python - Matplotlib and geopandas

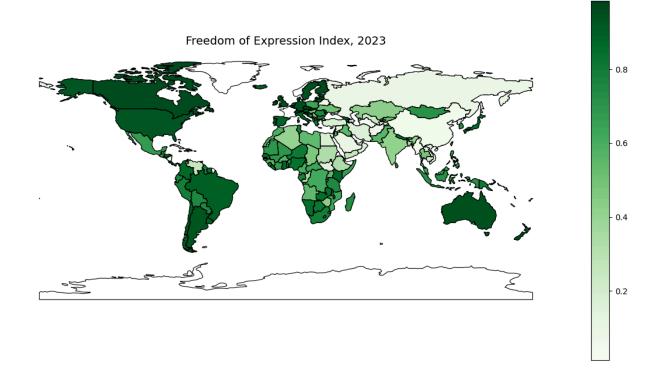
Using Python(code linked above), specifically **matplotlib** and geopandas was the most familiar option to me, however it required a bit of thinking. I really liked to control colors and use different sources of data. While this wasn't the easiest way, it was the most customisable. I think this was the best for analysis because I could interact with specific parts of data, filter data, visualise it and work with it.

The original visualisation from our world about the freedom of expression is ss below



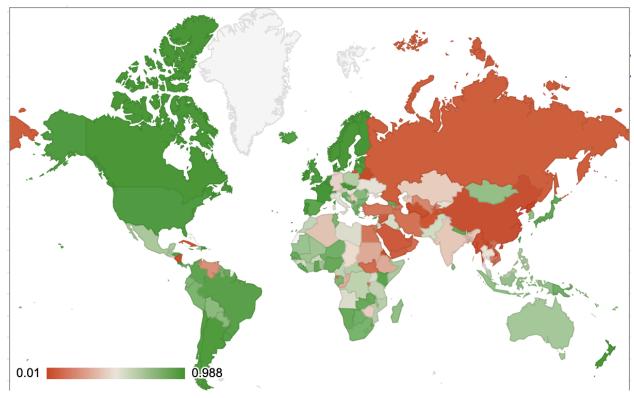
To recreate the <u>our world visualisation</u>, I created a similar choropleth map (shown below) showing the Freedom of Expression Index for 2023 using a color gradient from light green (low freedom) to dark green (high freedom).

My visualisation using matplotlib, pandas and geopandas



2. Google Sheets

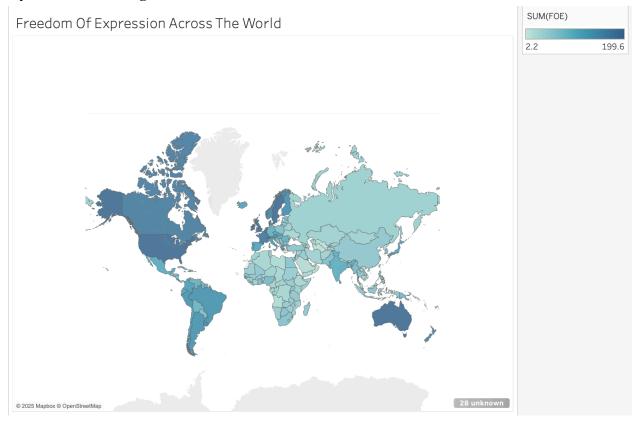
My visualisation using google sheets:



Google Sheets was the easiest in terms of finding it but it was very clunky to use. The geochart kept getting the color wrong and I wasn't sure why that was happening, but after I figured out that it was just the wrong column. I think it's useful for quickly rendering a visualisation but there is little control in labelling, changing colors as compared to python. And the communication possible through sheets severely lacks depth.

3. Tableau Public

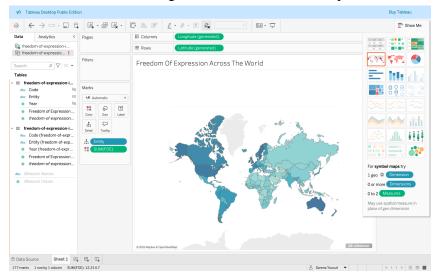
My visualisation using the tool:



I used Tableau Public and this was the most fun and interactive for me. I used <u>this tutorial</u> to learn the tool but I wasn't familiar with it. By this point I also cut down on the codes of the data because I figured that was unnecessary for the scope of this project.

There was more control in terms of customizability, analysis and communication as compared to google sheets but at my level not as much as python libraries.

There was so much that I want to properly explore, I want to try the other types of data representation here and see how that changes the communication/interpretation of this data.



In a nutshell

- Easiest To Make Google sheets
- Easiest To Read Python (matplotlib and geopandas)
- Most Customisable Python
- Most Analyzability Python
- Best for communication Depending on your skill level. For me, it was python but I could see
 Tableau taking that spot

Final Thoughts

I do not agree with some of the data here, because often the data collection is funded by the government in some areas and generalised to the rest of the country and I have lived my entire life scared of standing up for anything due to the extreme media censorship in Kashmir. I would love for there to be a forum in our world in data website which allows people to voice these inequalities and maybe let the world know the stories behind the data.

However, I learned a lot from this assignment and look forward to using data alongside the stories behind it in my future projects.