WEB VISUALIZATION TOOL CREATED USING GOOGLE CHARTS AND D3JS

Link: <https://people.rit.edu/asg6341/VA_assignment5/>

Description: This tool recreates visuals from my last assignment, which was about prevalence of HIV as well as percentage of deaths by communicable diseases in some African Countries (Botswana, Ethiopia, Eswatini and South Africa). The 1st visual is a circular heat map from d3js website showing a clear increase in percentage of HIV from years 1990 to 2001. 2nd visual (right side) is a geo chart showing Africa and the maximum percentage of HIV in some countries on a color scale from green (minimum) to red (maximum). The 3rd visual is a simple bar chart showing and comparing percentage of deaths by communicable diseases in the same four countries and the average percentage in the years 2000, 2010, 2015, 2016.

I could not figure out how to program the brushing algorithm (not required for assignment but just for testing my abilities), so I manually interacted with all elements in my tool and identified some patterns. It is clearly visible from the geo chart that prevalence of HIV is very high in southern African countries and relatively very low on the islands and northern countries. So, I found out the percentage of deaths by communicable diseases in these countries. But while brushing I figured that there is a direct relation between these percentages.

If given time, it can be further extended using the algorithm: Small comparisons in large information space, by first looking at all countries in Africa and then narrowing into smaller comparisons for example, just southern countries, or just northern countries. The figures below show manual brushing algorithm for Botswana in all 3 visuals.

A screenshot of a cell phone

Description automatically generatedA close up of a map

Description automatically generated