**FIT3179 Week 9 Homework**

Name: Tay Qing

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Lab: Friday 11.00 p.m. – 1.00 p.m.

Tutor Name: Dr Grace

URL publicly accessible web page on GitHub: <https://github.com/TayQing/3179.git>

URL of a HTML web: <http://127.0.0.1:5501/index.html>

Screen Capture of the map:

A map of the world

Description automatically generated

1. **The domain of my visualisation**:

The visualisation represents global wealth distribution by country, specifically focusing on the total wealth of billionaires across different nations.

1. **The visualised dataset**:

The dataset used includes attributes such as the total wealth of billionaires, number of billionaires, and population of each country. The source of the dataset includes aggregated statistics from the Billionaires Statistics dataset (2023), authored by Nidula Elgiriyewithanam, and the URL links is <https://www.kaggle.com/datasets/nelgiriyewithana/billionaires-statistics-dataset> .

1. **Data transformation applied**:

The dataset was normalized by calculating **wealth per million people** to make comparisons more meaningful across countries with varying population sizes. The transformation ensures the visualisation doesn’t merely show absolute wealth but represents wealth relative to population, making it a more fair comparison.

1. **Justification for the type of map idiom used**:

A **choropleth map** was chosen for this visualisation because it allows for clear comparisons of wealth between countries using colour shading. This type of map is particularly effective for showing variations in data across geographical regions. A proportional symbol map or dot map would not be as effective, as they would require precise placement of symbols or dots, which can lead to visual clutter and difficulty in interpreting the scale of the differences between countries.