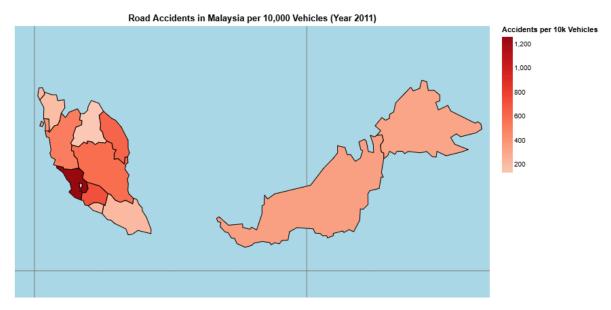
Name: Gan Ruiqi Student ID: 33521204 Lab: Tuesday 2pm Tutor Name: Dr. Grace

URL: https://rgiiii.github.io/FIT3179/HW9/

Road Accidents in Malaysia (2011)

This choropleth map shows the number of accidents per 10,000 registered vehicles by state.



Domain of visualisation:

This visualisation explores road traffic accidents in Malaysia, analyzing trends in accidents, fatalities, and injuries across states, vehicle types, and road user categories over time. It aims to identify high-risk groups and locations, assess the severity of accidents, and provide insights for targeted road safety interventions and policy-making.

Visualised dataset:

- Attributes: State (categorical), Accident Rate per 10,000 registered vehicles (quantitative).
- Source: Malaysian Government Open Data Portal

https://archive.data.gov.my/data/en_US/dataset/statistik-kemalangan-jalan-raya-men gikut-jenis-kemalangan-dan-kecederaan/resource/71537bbc-e4e3-4b86-aee9-2a8d8 99d0b0e

• Geographical reference: CartogramMalaysia GitHub repository

https://raw.githubusercontent.com/jnewbery/CartogramMalaysia/9ac25c828e0306dfa 2c2869f98eb2b357da69764/public/data/malaysia-states.topojson

Link to Github:

https://github.com/jnewbery/CartogramMalaysia/blob/master/public/data/malaysia-states.topojson

Data transformation applied: Accident counts were normalised per 10,000 registered vehicles for fair comparison. Additionally, state names in the CSV were manually corrected to match the TopoJSON file, ensuring a successful join.

Justification for map idiom: A *choropleth map* was chosen because it effectively communicates how accident rates vary geographically across states. Choropleths are appropriate here since the data is quantitative and normalised (rates per 10k vehicles), allowing for meaningful color-based comparison between regions. A proportional symbol map or dot map would have been less effective, as they may obscure state-level differences or suggest point locations rather than region-wide rates.