Data Visualisation 2

# Project Proposal

## Domain (Describe the domain of your visualisation)

* The domain of this visualisation is **Population and Migration in Victoria, Australia**.
* It explores how demographic growth, age structure, and cultural diversity differ across Local Government Areas (LGAs).
* The project focuses on identifying where Victoria’s population is increasing most rapidly and how overseas-born residents contribute to this growth.

## Why (Describe why your visualisation will be useful and interesting for users)

* Understanding Victoria’s demographic shifts is vital for urban planning, infrastructure investment, and community development.
* The visualisation will allow users to intuitively see:
  + Which LGAs are growing or ageing;
  + How migration and diversity shape these trends;
  + How Victoria’s pattern compares with Australia overall.
* This is useful for policymakers, students, and residents interested in how population and culture intersect spatially.

## Datasets (If known, indicate the source (URL) of the datasets you will be using)

1. **ABS Data by Region (Victoria, 2023)** – LGA-level demographic data including estimated resident population, gender, and median age. (<https://dbr.abs.gov.au/index.html>)
2. **Victorian Government – Population Diversity by Local Government Area (2016)** – Top 15 countries of birth, proportion of overseas-born residents, and cultural background data. (<https://www.vic.gov.au/local-government-areas-report-population-diversity>)

## Design Ideas (Briefly describe ideas that inform your visualisation design, for example, existing visualisations that inspire you)

The visualisation will be delivered as a **scrollable GitHub webpage** using **Vega-Lite** for interactive charts.

Key components:

* **Choropleth Map:**
  + LGA-level population change and median age (colour scale).
* **Bar / Scatter Plot:**
  + Gender and age composition per LGA.
* **Stacked Bar Chart:**
  + Top countries of birth highlighting diversity distribution.
* Design will take inspiration from the **ABS Data by Region dashboard** and the **Victorian Planning Demography Map**, focusing on clarity, consistent colour palette, and concise annotations to tell a cohesive story.