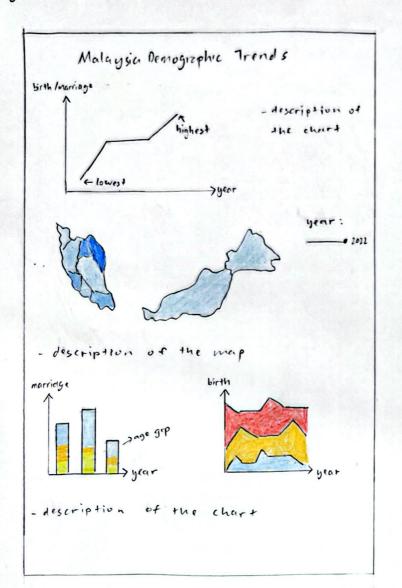


4. What annotations or text are needed

to add context ?

# Layout



Title: Molaysia Derographic Trends

Author: Sarina Sim

Sheet : 2

Date : 18/10/ 2025

Task: DV2

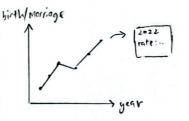
### Operations

### 1) Filter

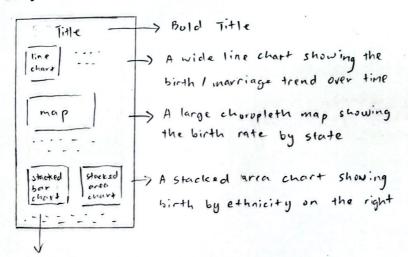
-user can reled a specific year from the slider, which will update the map.

### @ Hover

- Hovering over a state on the map or a bar in the chart reveals a tooltip with basic information.
- on the line chart show a tooltip with basic info



### FOCUS



A stacked bar chart showing marriage by age grp on the left

### Discussion

#### 1. Pros

- provide high density information,
- allow for easy comparison between different facet of data
- good for expert user

#### z. Cons

- can be overwhelming for the average user.
- Lacks a clear nurrective or story to guide the user
- The relationship between marriage and birth is no explicitly highlighted.

Malaysia Demographic Trends

- short description for the visualisation

C. Relationship of merriage and birth

birth/morringe

- short description of the chart

2 state level visualisation

birth

year

- short description

of the chart

Title: Malaysia Demographic Trends

Author : Sarina Sim

Sheet: 3

Date: 18/10/2025

Task: DV 2

## Operations

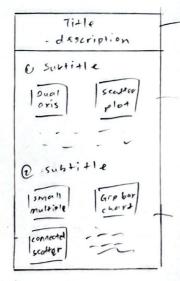
( Filter

filter menu for the group bar chart can filter the Ethnicity.

### @ Hover

- Hovering on the point on the scatter plot will appear a tooltip showing the details of that state.
- 3 Pescription
- below every chart, showing a details explanation for the chart

## Focus



Bold title and short description of the visualisation

malaris chart & scarter
plot place side by side
and showing a detail
explanation for this two
chart
, connected scatter

small multiple chart & Grp bur chart place side by side and given a detail information below the two chart

## Discussion

- 1. Prus
- excellent for storytelling and communication a dear message
- highly engaging and accessible for a general audience
- 2. Cons
- Restricts user exploration
- can be vigid

# MALAYSIA DEMOGRAPHIC TRENDS

- snort information for the visualisation

The birth rate change over time

birth

o-o-o-o

state - short description

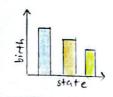
of the chart

@ The categorical Distribution of birth & morriage



male female

( Birth & marriage rate by State







Title : Malaysia Demographic Trends

Author: Sarina Sim

Sheet: 4

Date: 19/10/2025

Task : DV 2

## Operations

( Tuoltips

- Clicks on the points
on the chart, will appear
a toothips showing the
basic information.

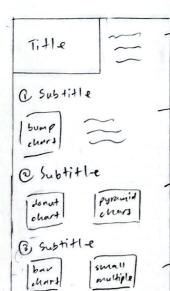
2 Year slider

- A slider allow user to change the year of the donat chart

(3) Propdown monu

- A dropdown menu to fitter
the state of the bump
chart

Focus



-Bold title wth a short description of the visualisation

A bump chart with a short description

- A donut chart & pyramid chart place side by side

A bar chart & small multiple place side by side

## Discussion

1. Prus

- Balance guide story telling with intuitive exploration

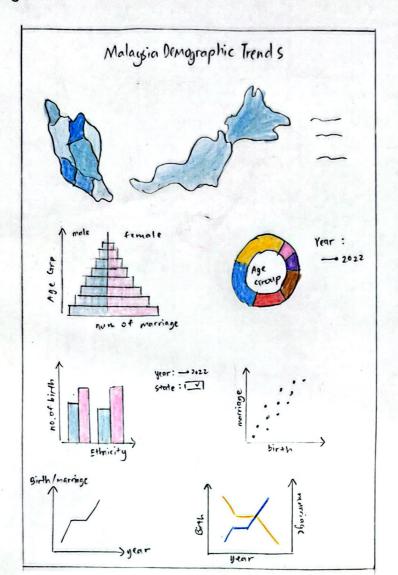
- Raters to both casual and expert user by providing a summary and deep-dive tools

- Allow for easy comparison between different facts of the data

2. Cons

-require very clean and well thought - put layout to ensure the link interaction are obvious to the user

# Layout



Title: Malaysia Demographic Frends

Author: Sarina Sim

Sheet : 5

Date: 19/10/2025

Task : DV 2

### Operations

### ( Filter

- year slider and Aropdown menu for group bar chart
- -user can select any year or state they want

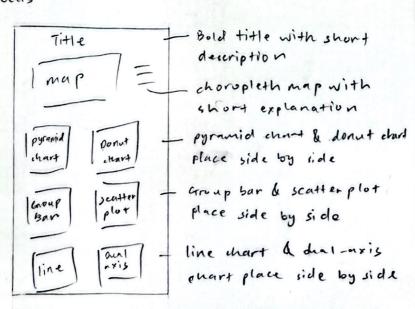
### @ Hover

- Hovering the map or chart will show the tootlip with the basic information

## 3 Description

- Include short explanation for all of the mart

### Focus



ly add short description for all the chart

### Details

- 1. Tools
- HIML, css, rega-lite, Javascript
- 2. Algoriths and data processing
- use data aggregation algo
- -implement correlation analysis
- 2. Time Estimated
- 4-5 days for design and interactivity
- refinement : 2-3 days