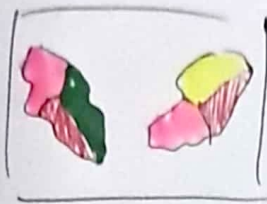


Population of Malaysia By state

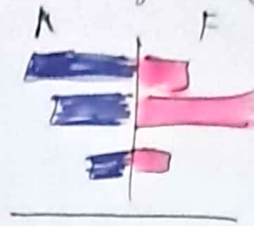
Ethnicity? ①



State population? ②



Gender & Age? ③



26/04/2024

Show rate of change of population

① Line chart

② Bar chart

Ethnicity distribution

① Pie chart

② Bar chart

Gender distribution

① Population chart

② Heatmap

③ Pie chart

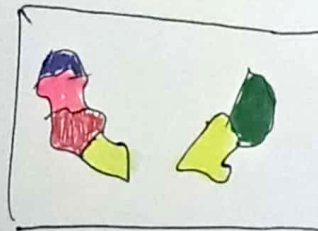
Show population state & trends

① ~~Map~~ Choropleth Map

② Line chart

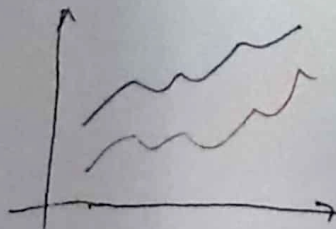
Refine & Combine

①



Map, for 1 year to show state of population/update of the population for that region/country

② Line chart



To show trends in increase or decrease in overall population, by country or state over some period of time

③



Pie chart

It helps to show distribution trends in either ethnicity, age, sex

Questions & Summarise

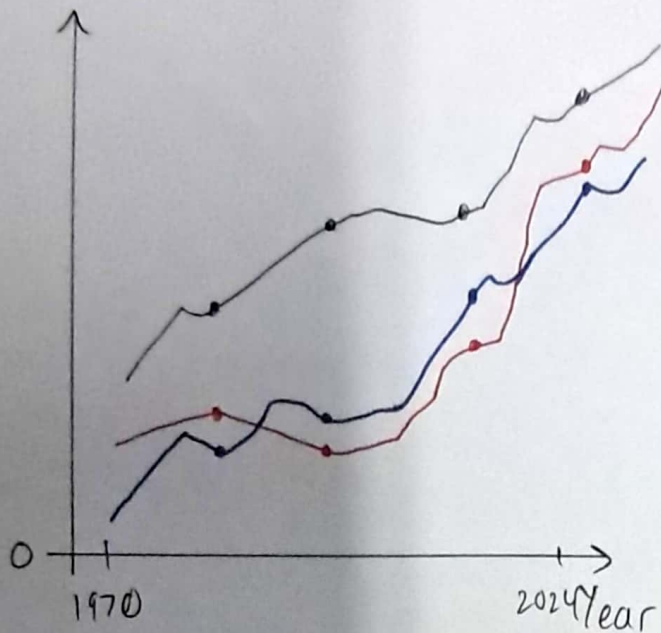
Do the graphs provide a comprehensive visualisation?

- Yes, the graphs help to explain to the users about population distribution, growth trends & diversity in Malaysia

Do the graphs answer the questions about population trends & dynamics?

- Yes, the graphs successfully help display population trends over time, how population growth happens & how ethnic composition has changed.

Population



State = All or choose state

- State 1
- State 2
- State 3

Part / Focus

- Focus relies on historical population trends for Malaysia as ~~an~~ a whole ~~a~~, separated by state
- Growth rates highlight important inflection points, that show urbanization periods or demographic shifts.

2

Sheet 2: 3.4

Name: Artish Sultan

Date: 29/04/2024

Title: Growth trends across Malaysia from 1970-2024

Description: This chart highlights the trends & changes in Malaysia's population, segregated by state from 1970-2024

Components / Operations

X axis - Year from 1970 to 2024

Y axis - Population axis, from 0 to

Use multiple coloured distinct lines to show different states

Filter by state, to see individual lines for each state.

Legends to show different lines for different states

Pro & Cons

Pros: Great to show historical data & population evolution

Easy to compare & read across multiple states

Cons: Too many lines can cause cluttering of the space and make it hard to see

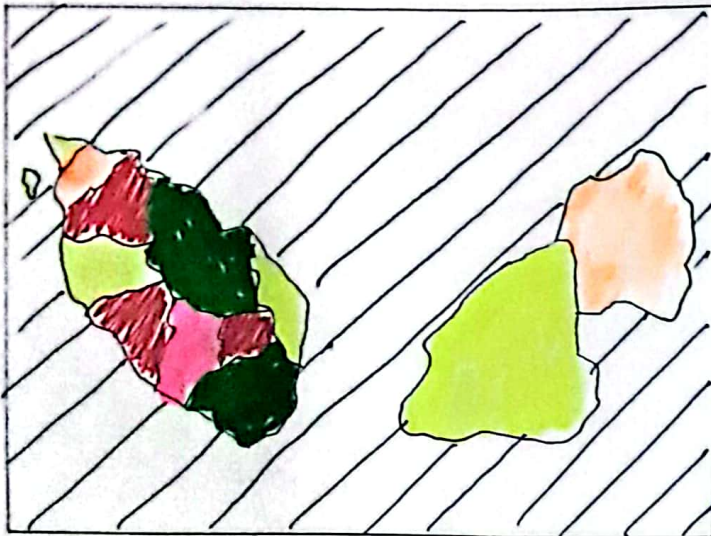
Hard to align detailed details in lines to chart due to compared to bar chart.

Group: 2,3,4
 Name: Artistic Cotton
 Date: 28/09/2024
 Title: Population Distribution of Malaysia ~~and states~~
 Description: by states in 2024

This map is a representation of the population of Malaysia in 2024, segmented by states and coloured by population size.

Components / Operations

- Map Base, to outline Malaysia's borders, per country & states
- Colours, from a light to dark scale to show an increase in population by a discrete amount increase; ~~the~~ change in colour every 2000 increase in population
- state labels, to highlight the state name & the actual population for that state



Year: 2024



Part / Focus

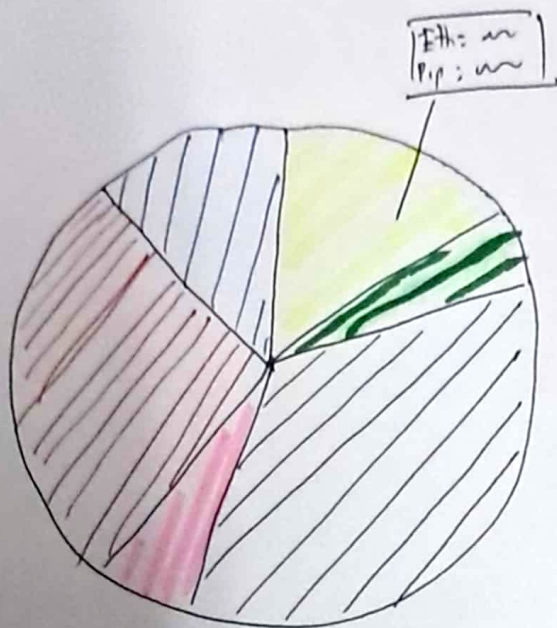
- Can represent population distribution across Malaysia for the year 2024, highlighting areas of high or low concentration
- Each state or territory is ~~outlined~~ outlined to show variations in population
- Colour scheme, from light to dark, can show the increase in population per state.
- Useful for urban planning & development, policy making & easy to identify key regions for development.

Pros & Cons

Pros: It is an intuitive representation of state population across the country for the current year. Easy to interpret, ~~between~~ between high & low ~~states~~ populations & their states.

Cons: Limited to 1 year, hence is unable to show trends over time.

~~Colour choice~~ Is sensitive to colour choice, a bad choice can cause confusion in population distinction.



State: []

Year: []
1970 2024

Part / Focus

- Break down Malaysia's ethnic groups, from Malay to Chinese, to Indian to other minor groups
- Shows trends / changes in the pie sections for all the state across many years, thus highlighting ethnic group changes
- Critical in understanding Malaysia's multicultural society & its evolution - Can be used by the government to allocate resources & inform social policy based on state diversity

4

Name: Arifish Sethan
Date: 30/04/2024

Title: Population Ethnic Distribution by State & Year

Description: This graph highlights the distribution of ethnic groups across Malaysia by state & year.

Components / Operations

Segments: Each unique colour is locked to an ethnicity across time & state.

Colours: They are distinct & come with a legend

Filters: You can filter the data by ~~state~~ individual state & by a range of years from 1970-2024

Pro & Cons

Pros: Good for representing proportions so is useful to visualize the distributions.

Easy to compare the size of groups, since the colours are locked to each ethnicity.

Cons: Smaller ethnic groups may have small, minuscule pie segments & can be visually hard to see.

Name Archish Sultan

Date 01/10/2024

Title Trends in the Population of Malaysia

Description

This visualisation aims to present the various angles & changes to the population over time & state

Components / Operations

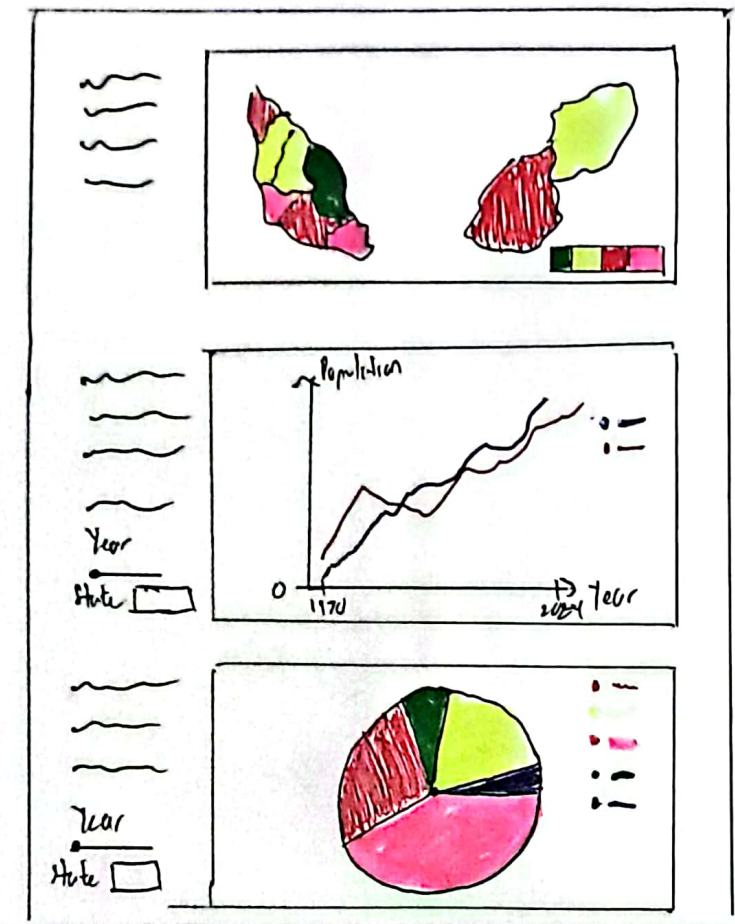
Colour Scheme: The colour scheme will be retained for different states & ethnicities

Legends: Legends with & tooltips will be used to provide details about points on the graphs to further inform the audience.

Ordering & Story telling: The flow of the visualisations will help narrate the overall message & points about the Malaysia's population demographic

Details

- Users will be able identify trends in the population across a 54 year gap
- Policy makers & industrial sectors will be able to locate potential areas in the country to push for urbanization/restoration.



Part / Focus

Map: Visualisation used to introduce the current population demographic & distribution across Malaysia in the current year

Line: Visualisation used to show the trend change of the population from 1970 to now, showing users how the population ~~was~~ reached its ~~total~~ ~~current~~ current state.

Pie: Shows the distribution of ~~the~~ the population's ethnicity and how its changes have affected the overall changes in the general populace.