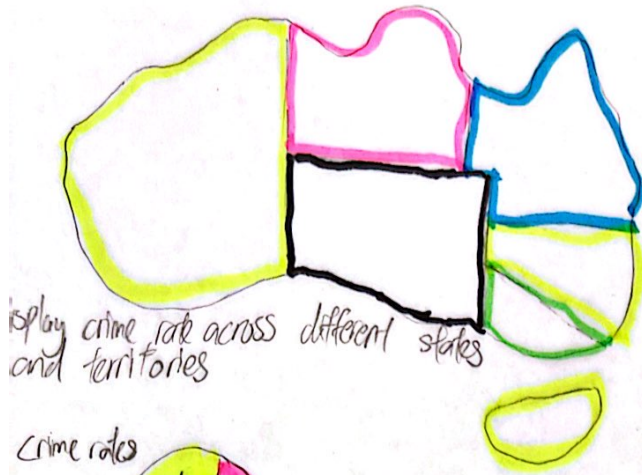
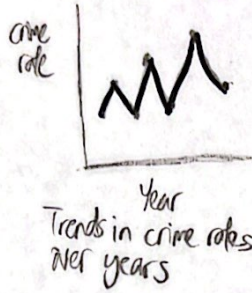
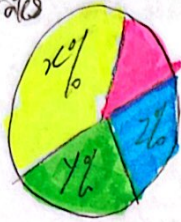


# Ideas

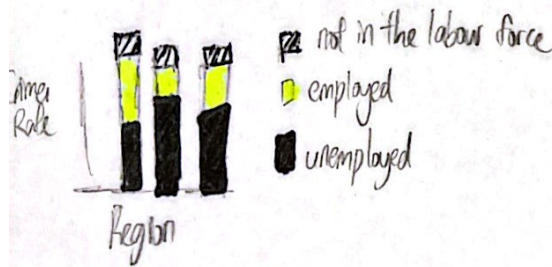
## Crime Rate in Australia



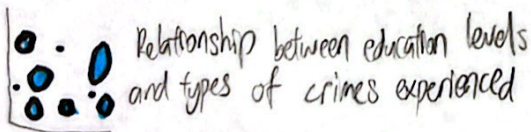
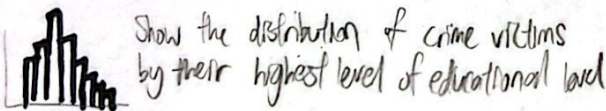
Crime rates



Labour Force



Education



Categorise

Geographic VS  
Heat Map  
Choropleth Map  
Bubble Map

Trend Analysis  
Line Graph

Comparative Analysis  
Bar Chart  
Pie Chart  
Box Plot

Relationship Analysis  
Scatter Plot  
Bubble Chart

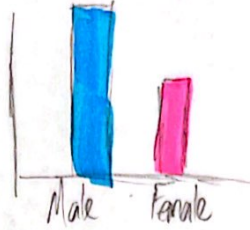
Flow & Process  
Sankey Diagram

Combine & Refine

Combine a Choropleth Map with a Bubble Chart to show crime rates and relate social economic factors

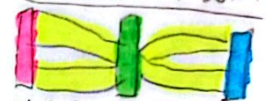
Demographic

Show the distribution of crime victims by age group and gender



Visualise the marital status and country of birth

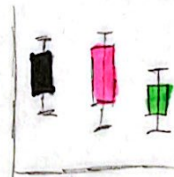
Crime Incident Details



Illustrate the flow of crime incidents from occurrence to reporting to the police

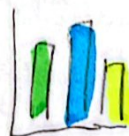
Income

Illustrate the distribution of crime rate across different income level



Analyse the correlation between income levels and crime rates

Types of crimes



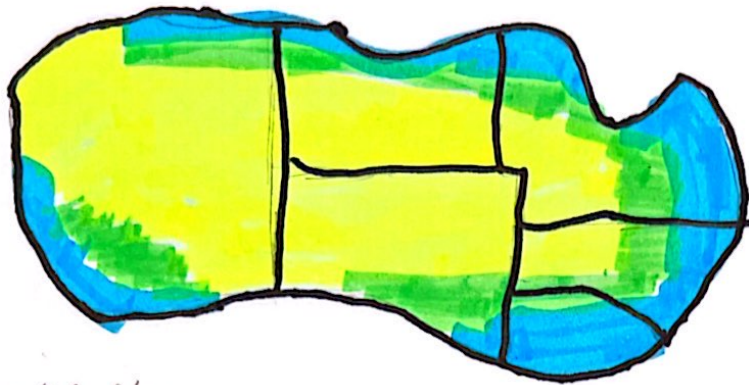
Rates of different crime



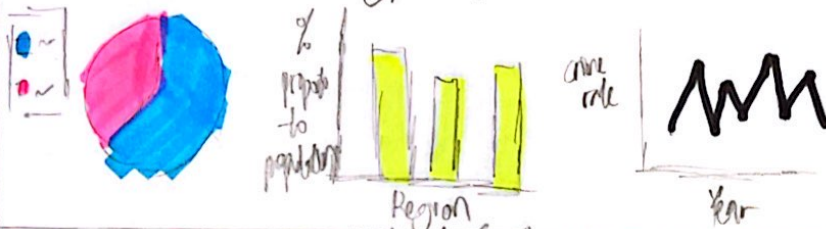
Show the proportion of various crime within the total crime dataset



# Crime Rate in Australia



## Types of Crime



## Related to Crime



Title: Crime Rate in Australia

Author: Chia Yew Chong

Date: 15/9/2024

Sheet: 2

Task: FIT3179 A2

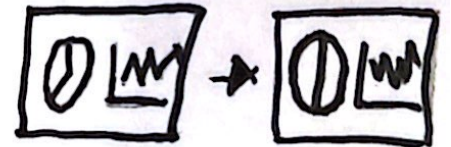
## Operations



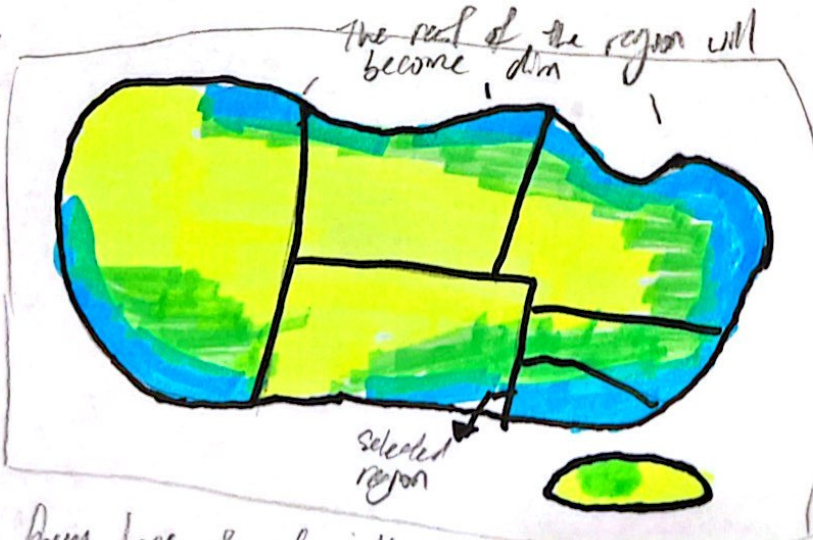
Select any region



Highlighted the selected region



## Focus



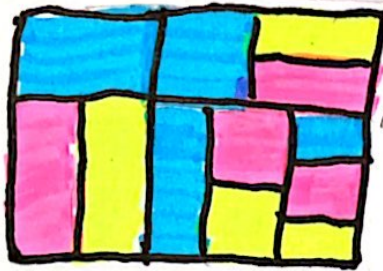
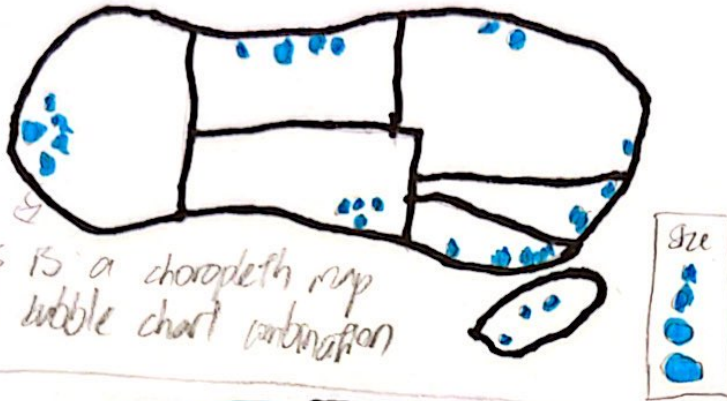
The focus here is to allow the map use as filter when selected a certain state or territory, the rest of the regions also filtered as well

## Discussion

- Able to let user do use the map as a filter
- This feature allows viewers to focus the region they want
- Easily filter to get the stats



## Crime rate in Australia

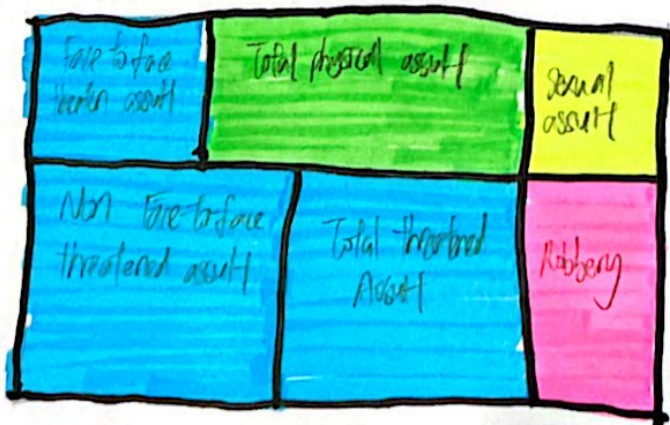


Topic: Crime Rate in Australia  
 Author: Chia Yau Chong  
 Date: 15/9/2024  
 Sheet: 3  
 Task: FIT3179 A2

## Components

- A choropleth map and bubble chart combination
- A treemap
- Line chart
- Bar chart
- Possibly box chart to make a economical factor

## Focus



- By using Treemaps, it can display hierarchical data
- This example shows the data hierarchy of the types of crime

## Discussion

Pros:

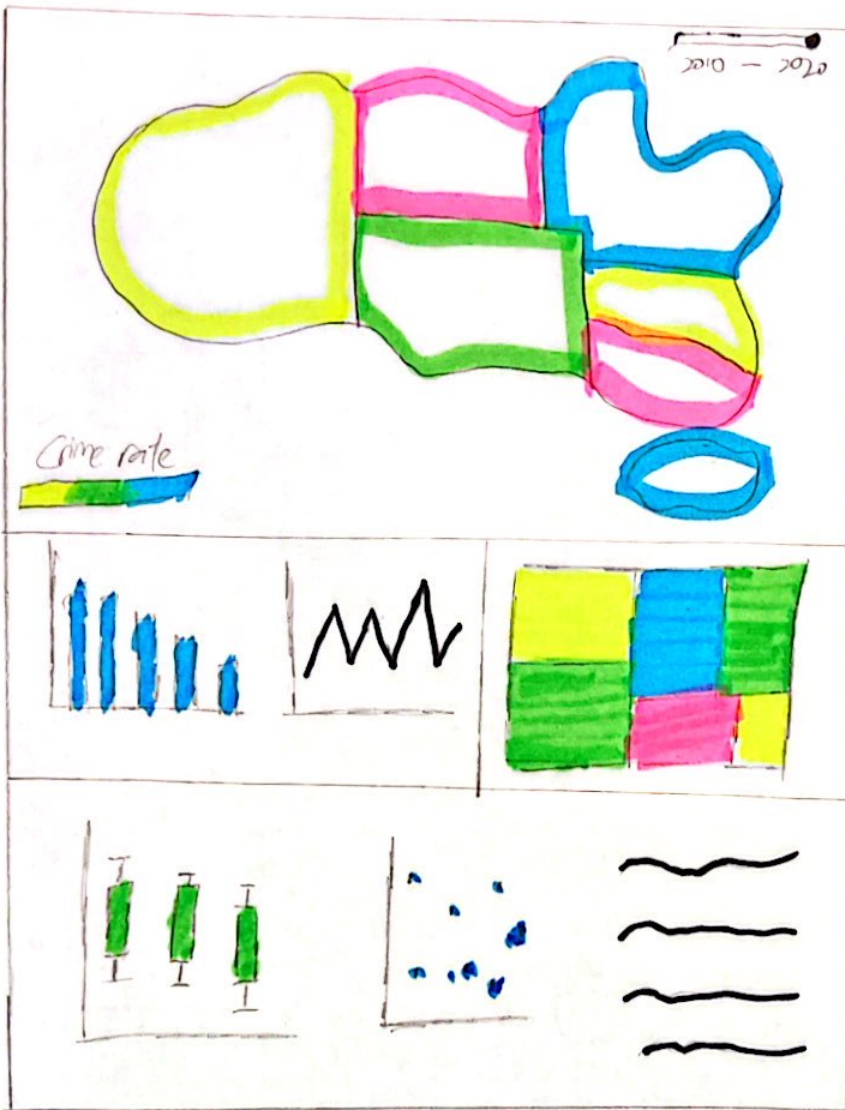
- Can effectively display hierarchical relationship between the data
- Use color code to encode a second dimension, making it easier to compare different categories

Cons:

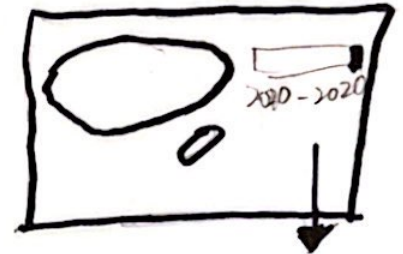
- Can become complex and harder to interpret
- Not the best choice for comparison



Title: Crime Rate in AUS  
 Author: Chia Yaw Chong  
 Date: 15/9/2024  
 Sheet: 4  
 Task: FIT3179 A2

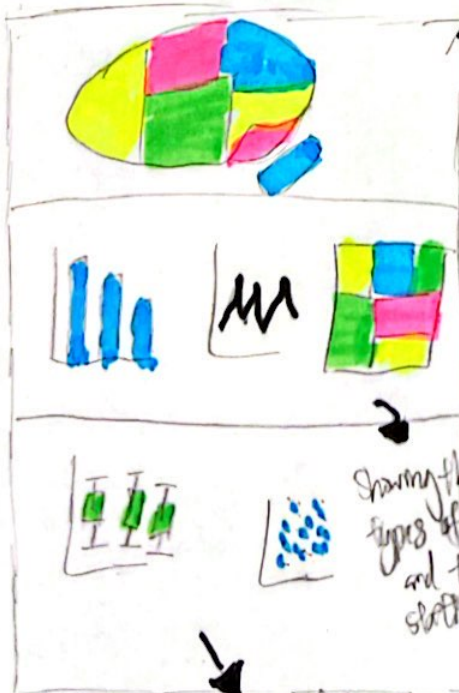


### Operation



- Able to adjust the time period
- However, it might just included for the map, not for the whole dashboard

### Focus



Showing the overview of crime rate across the states and territory

- Focus on providing as comprehensive information as possible

- Allow viewers have a understanding of the overall context by storytelling

Showing the types of crime and the total statistics

Showing the relationship between crime rate and income level

### Discussion

#### Pros

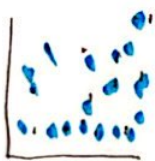
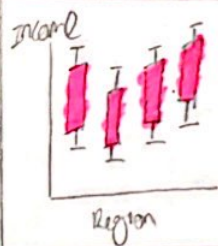
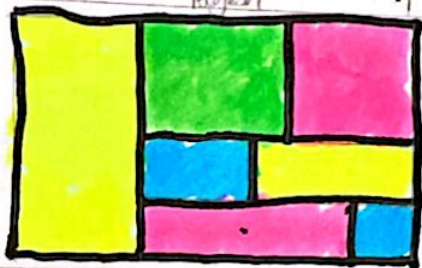
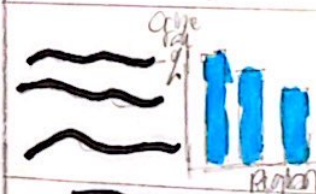
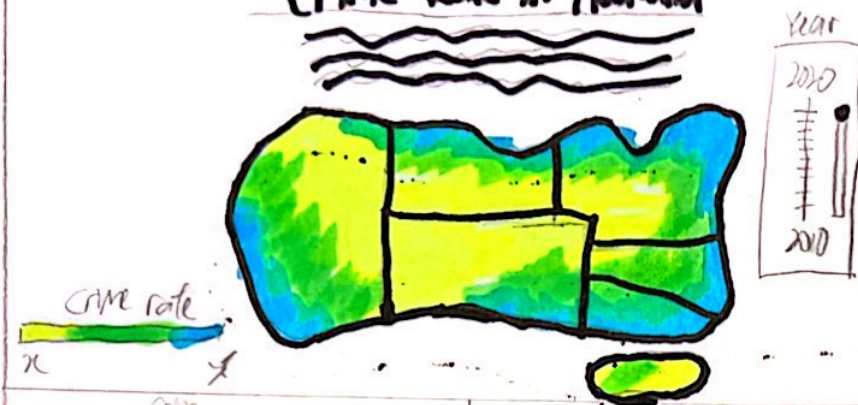
- Viewers can get a lot of information from here
- Storytelling makes the visualisation more interesting

#### Cons

- Takes time to complete this, and might not able to do all of the due to the time limit



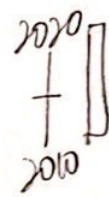
# Crime Rate in Australia



Title: Crime Rate in Australia  
 Author: Chia Yaw Chong  
 Date: 15/9/2024  
 Sheet: 5  
 Task: FIT3179 A2

## Operation

- Adjust time period (for the choropleth map)



- Use the choropleth map as the filter to focus on certain region

## Focus

2010 - 2020



Allow to change the time period

- The choropleth map would be the essence of the main idea which is the crime rates in Australia (by states and territories)

## Detail

- This would be completed by using a few tools
  - Vega-lite
  - HTML, CSS, JS
- Time used
  - approximately 10 days for the visualisation
  - one day for cleaning and preparing for data
  - Few hours for the report