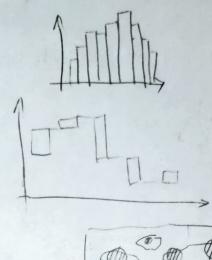
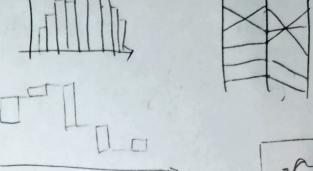
IDEAS

Topic: Factors that potentially correlate to crime rate

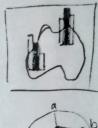
Attributes:

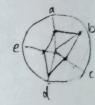
- Organized crime rute
- Drug related crime rate
- Pophlation
- Income (GDP per capita)
- -Corruption Index (CPI)
- Drug related issues
- Lydrug use
 - 4 drug seizures

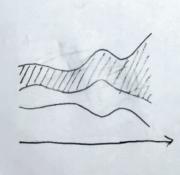


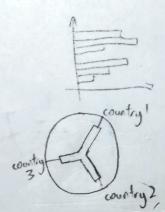


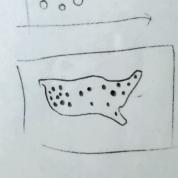












FILTER

- visualise growth of certain factors over time, comparing with other countries
- visualise potential correlations between factors and crime rate

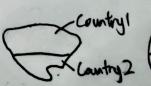
CATEGORISE

⇒ visualise growth + companisons

4) Use charopleth maps

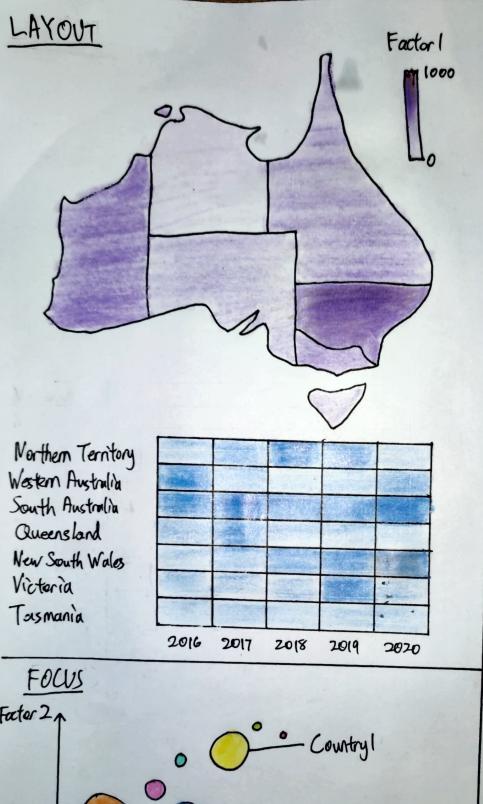
Idioms to visualise growth over time

COMBINE & REFINE





Country 2



Focus

Factor 2

Factor 1

Factor 2

Factor 2

Factor 3

Factor 4

Displays these charts as the user picks factors / locations

Title: Factors affecting crime rate internationally

Author: Lucas Ong

Date: 5 Oct 2024

Sheet: 2

Task: Present overview of chata, allowing users to choose details.

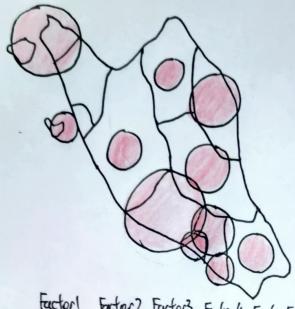
OPERATION

- -User views overview using map, while making comparisons across different years easy using the heatmap.
- The user can view multiple factors' relation to each other in the bubble plot
- Selecting 2 countries, the user will be able to compare the multiple factors of the 2 chosen countries in the butterfly chart.

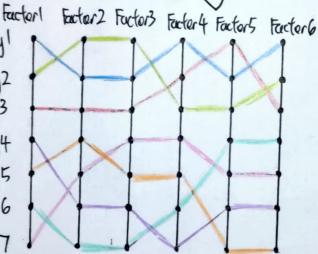
DISCUSSION

- Allows the user to make various types of comparisons between different countries, factors, or time.
- -Cons: Without selecting countries/
 factors/time, the additional
 charts might not look
 pleasent due to the many
 data entries, overwhelming the
 user.

LAYOUT



Country 1 Country 2 Country 3 Country 4 Country 5 Country 6



Title: Factors affecting crime rate

internationally

Author: Lucas Ong

Dute: 5 Oct 2024

Sheet: 3

Task: Clearly present duta to compare multiple locations in many ways to make it as clear as possible the differences between multiple locations

OPERATION

-User view the overview of o predefined chosen factor (chosen by dev).

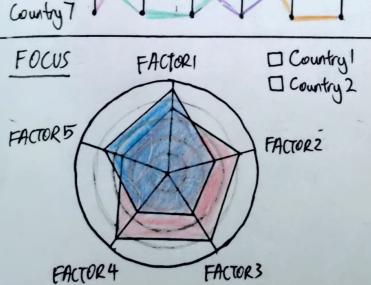
-Choosing a country adds it to the bump chart, and rudar plot

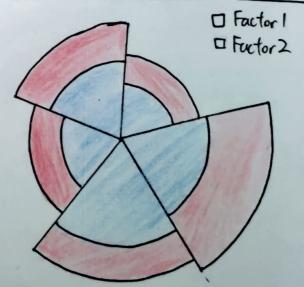
Choosing only a single country allows it to be plot on a nightingale rose chart

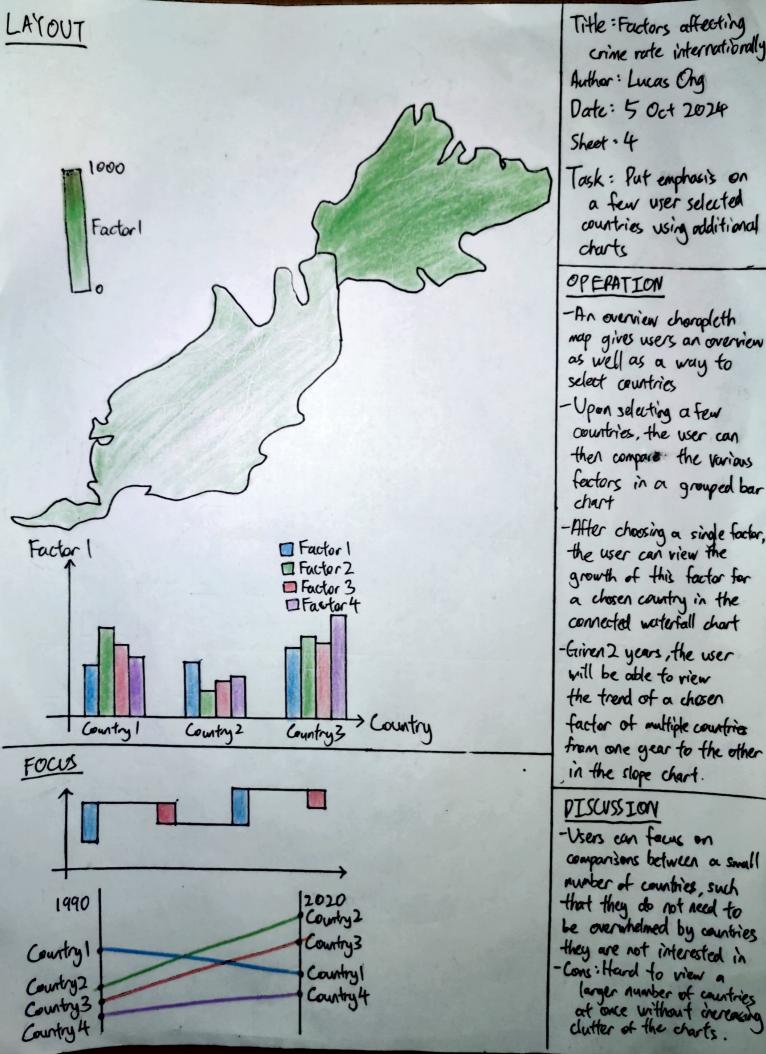
DISCUSSION

-Users will have many ways to compare different countries and how they compare to each other

Cons: Interactibity might feel limited







Title: Factors affecting crime rate internationally Author: Lucas Org

Date: 5 Oct 2024

Sheet . 4

Task: Put emphasis on a few user selected countries using additional

OPERATION

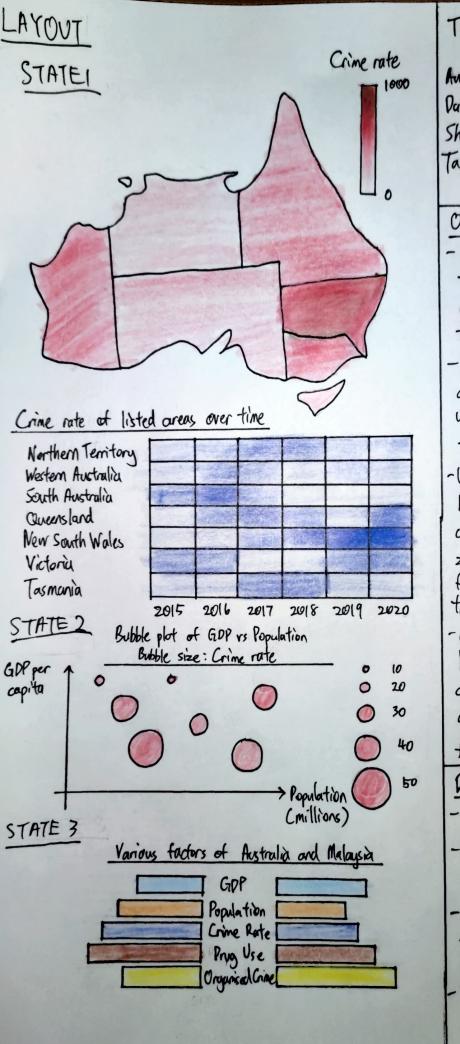
map gives users an overview as well as a way to select countries -Upon selecting a few countries, the user can then compare the various

-After choosing a single factor, the user can view the growth of this factor for a chosen country in the connected waterfall chart -Given 2 years, the user

will be able to view the trend of a chosen factor of multiple countries from one year to the other in the slope chart.

piscussion

-Users can facus on companisons between a small number of countries, such that they do not need to he overwhelmed by countries they are not interested in -Cons: Hard to view a larger number of countries at once without chereasing clutter of the charts.



Title: Factors affecting crime refe internationally

Author: Lucas Org

Parte: 7 Oct 2024

Sheet: 5

Task: Present overview of data, collowing users to choose details.

OPERATION

- A charapleth map is shown first in the dashboard, giving the user an overview of the main topiz of the visualization = Crime rate.
- -Upon choosing a few locations, a heatmap will be shown to the user to view the growth or trend for each location
- -Upon choosing 2 factors, a bubble plot will be shown if possible, comparing the 2 factors as the x-axis 1y-axis. with the main focus of Crime Rate fixed as the bubble size
- On choosing 2 locations, a butterfly chart of the 2 locations and their various factors will be displayed, allowing for a more focused comparison.

DETALL

- Time to build estimated of 10 days
- -Effort required: High due to lacking experience in Vega-Lite
- Implemented using Vega-Lite, hatuset from worldbank.org, UNODC, UN population estimates, oxindex-net - Techniques: Layout, Typography, Colean

selections, synthines, etc. taught in lectures.