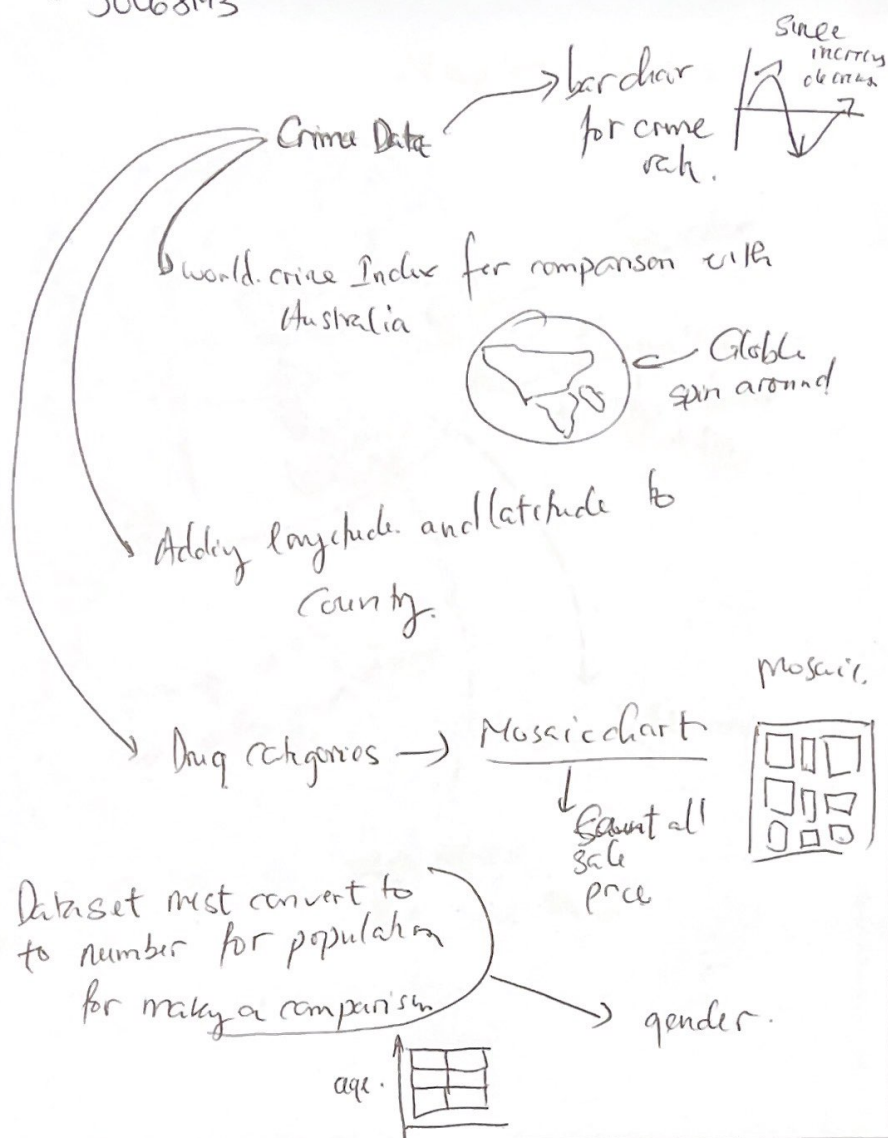


idea 30068193



2 filter

- Add data for lat and long for country
- perform calculation for
- filter all different complex drug category to simple.
- ratio

3 technique

Mark use mostly → line.

Channel use: horizontal and vertical.

Color: Her in Red and Grey

4 combine and refine

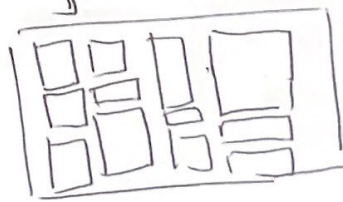
Vis 1



Legend



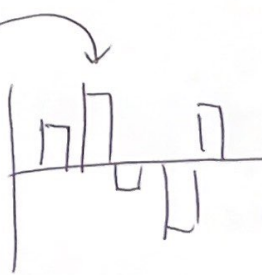
Vis 2



Vis 4

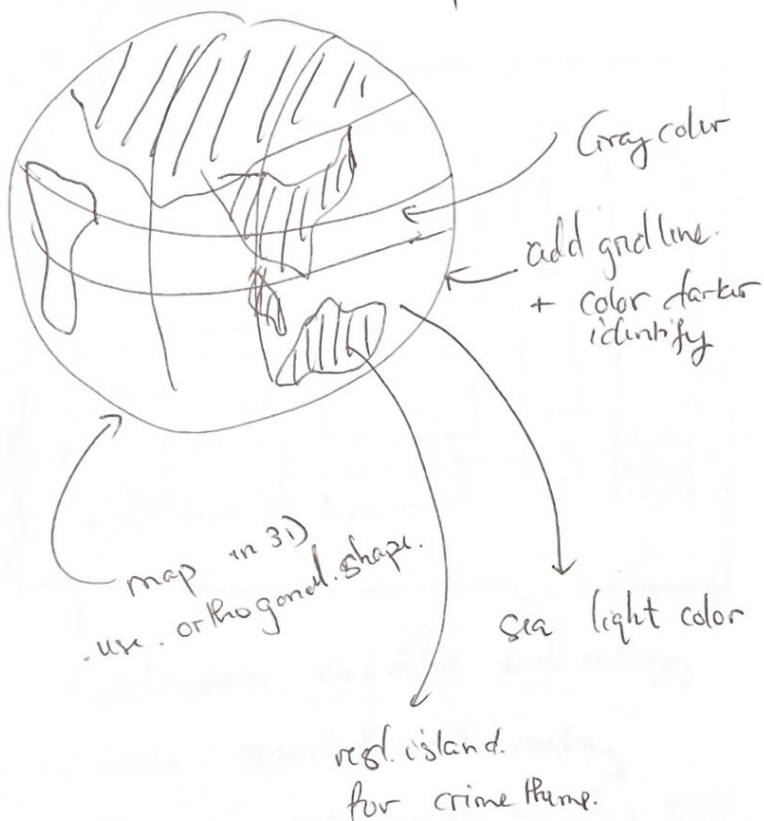


Vis 3



layout

Map Visualisation



title: orthographic map

Author: Nhät DgTran

Sheet: 1 / 4

Operation.

- map showing data about crime index
- Sea is used to have the color of map
- red scale color indicate value

*

Focus

- the map allow user to interact with
- + tooltip for detail and rotate the map for more detail of other country.
- A function to calculate

Discussion.

- able to see around the map
- space minimize and easy to have an overview of data
- Some data might not appears on map due to unknown data

Layout



each column stand for each category

each row stand for each ranking

total number of transaction on this rank

title: mosaic plot chart

sheet 2/4

Operations

- Data price convert in AUD
- Data must be simplify to category of class.
- remove unnecessary column for making data easy to manage and smaller.

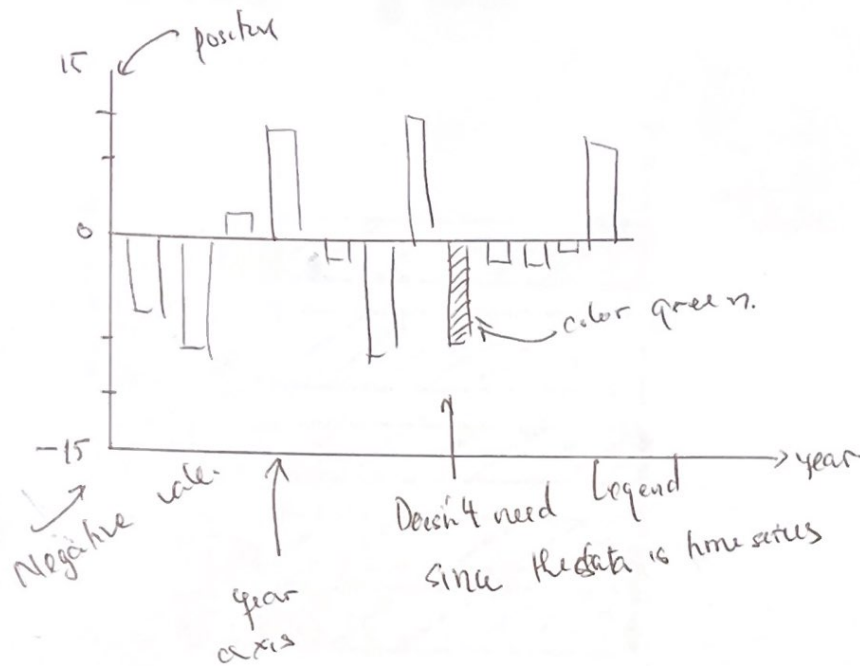
Focus

- The chart includes legend on the right of the chart → easy to identify each category
- color are in saturation red but can be identify by moving mouse and interact with data.

Discussion

- Advantage: Easy to see the sales and the most transaction
- Disadvantage: color unable to identify. Since it's in saturation red.

layout



title: Negative and
positive bar chart
sheet: 3/4

operation

- create with negative value will be distributed under 0 on axis
- Data provided enough for perform plotting
- 2 decades of years change the angle of x axis when the space is too thick

Focus

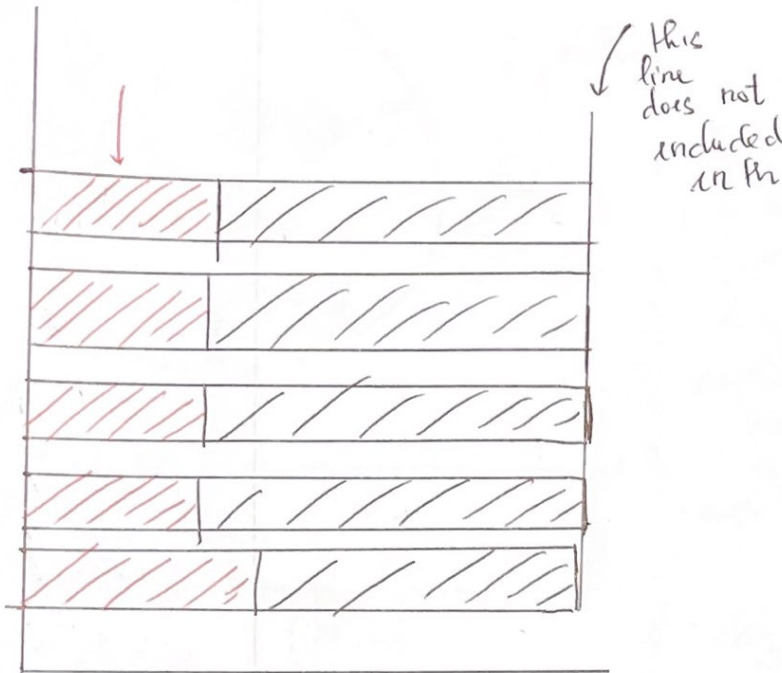
- Interaction: select range of values
- color hue format indicates the positive and negative value
- the positive are in negative direction due to the statistic.

Discussion

- advantage: easy to identify the change by looking at the chart
- disadvantage: some data too small for comparison

▣ FEMALE

▣ MALE



Gender

Title: Australia
Gender + Crime Rate Bar
Chart (horizontal)
sheet 4/4

operation:
- convert population
to thousand format

- using other
Data source for
total population
and multiply
to find the population
in the city

- plot a stacked bar chart
in horizontal
to find the difference
in gender

- remove the other
gender since the data
does not include
Statistics for others

- remove under 18
age to commit
crime

Focus

Interaction: color able to search or
point mouse in the chart
to select specific column.

- color hue: pink and blue indicates
gender.

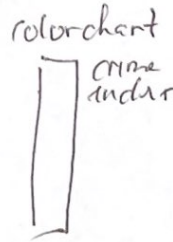
- tooltip showing gender and total population
at the age.

Discussion:

- advantage:
able to identify
the chart
ratio

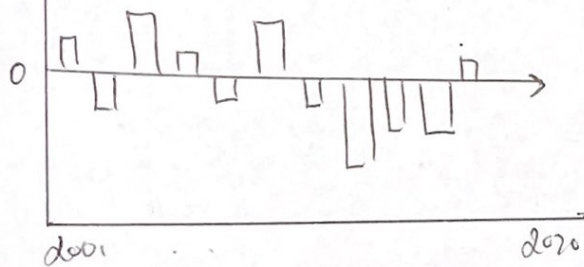
- disadvantage:
the data difference
is depends on
population not accurate

vis1



- vegalite - for using json file for ocean
- using json file for land
- using json file for grassh
- perform calculation $\times 1000$ for population to find exact population
- change in identify data into NaN
- population unclinkfy to 0 so that the color remains on map

vis3



- vegalite - transform y-axis and axis to double for negative and positive.
- add a brush to select field
- create x-axis for year.

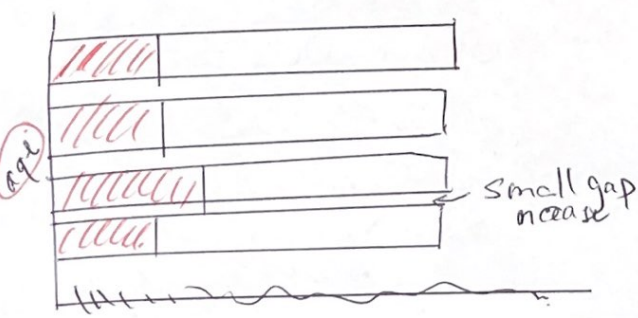
vis2



close gap calculation.

- vegalite - create a count ~~func~~ transform for category and rank
- stack the ~~category~~ count ~~func~~ transform
- calculate to find the gap by $\frac{0.9}{3}$
- find the rank min and max for top and bottom of the ~~chart~~ ~~func~~

vis4



Small gap increase

- calculate the percentage ^{population} of male + female commit crime rate.
- by $\times 100$ (male) and (0.0091) female
- Plot stack bar chart horizontal
- increase the chart width
- x-axis applies aggregate total of population