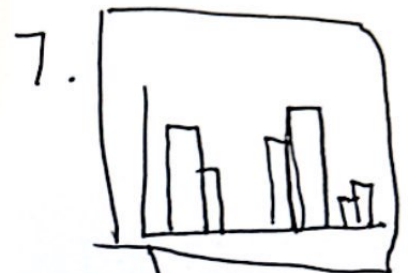
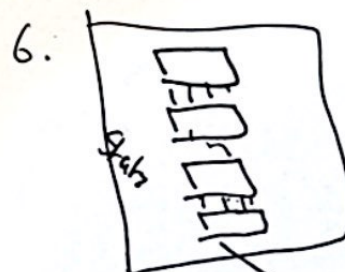
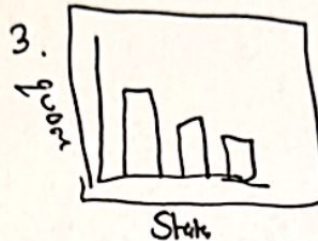
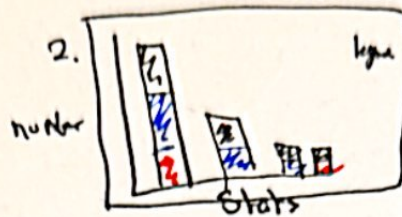
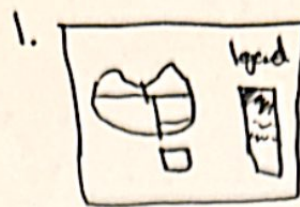
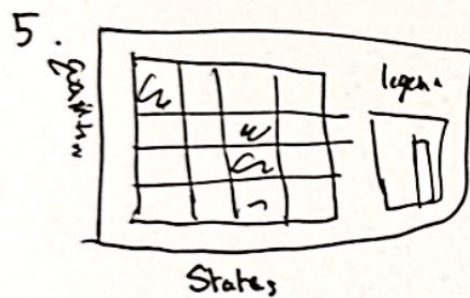
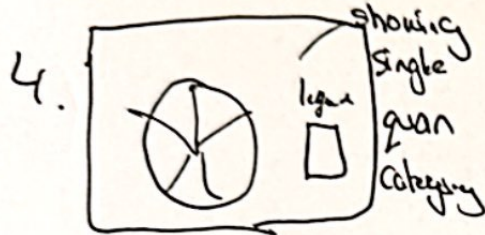


Brainstorm Ideas

1. Choropleth map - compulsory
2. Stacked bar chart - complex
3. Bar chart - basic
4. Pie chart - basic
5. Heat map - complex
6. Bullet chart - complex
7. 2 bar chart - basic



Filter
Bar chart
↳ too basic
Pie chart
↳ too basic

Categorise
Qualitative
↳ States
↳ weapon type
↳ category

Quantitative
- Count of weapon type
- homicide incident
- number of cases
- homicide classification totals

Combine and Refine

From data given, there are 4 main topics in boxes.

Total incidents

- Choropleth
- 2 bar chart
- Stacked bar chart

Case clearance

- 2 bar chart
- Bullet chart

Weapon used

- 2 bar chart
- Stacked bar chart

Classification

- 2 bar chart
- Stacked bar chart
- heat map

Split idioms into which topics would work.

Will have custom tooltips a filter where possible. For more interactivity.

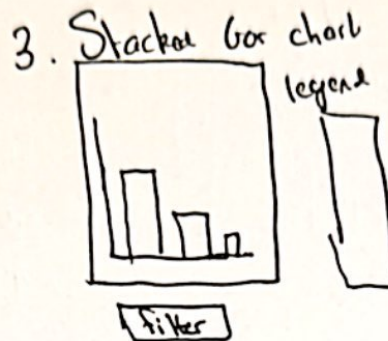
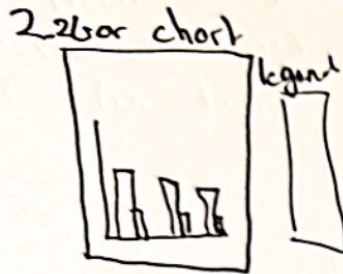
Question:

How to show which state is safer.

- Does population matter?

Sheet 1
Shivank
33/20/23

Layout



Focus

1. Map for total incidents.
 ↳ Colours shaded in legend
 ↳ tooltip for each state.

2. Bar chart for case clearance.
 ↳ will have a bar for cleared and not cleared.
 ↳ colour coded with a legend
 ↳ tooltip to show exact amount.

3. Stacked bar chart for weapon used.
 ↳ each colour is a different weapon.
 ↳ following colour like palette.
 ↳ tooltip.

4. 8 bar chart for homicide classification
 ↳ bars for each type in a different colour
 ↳ tooltip
 ↳ follow colour blind pallet.

Dashboard
 Sheet 2
 Shivank
 332053

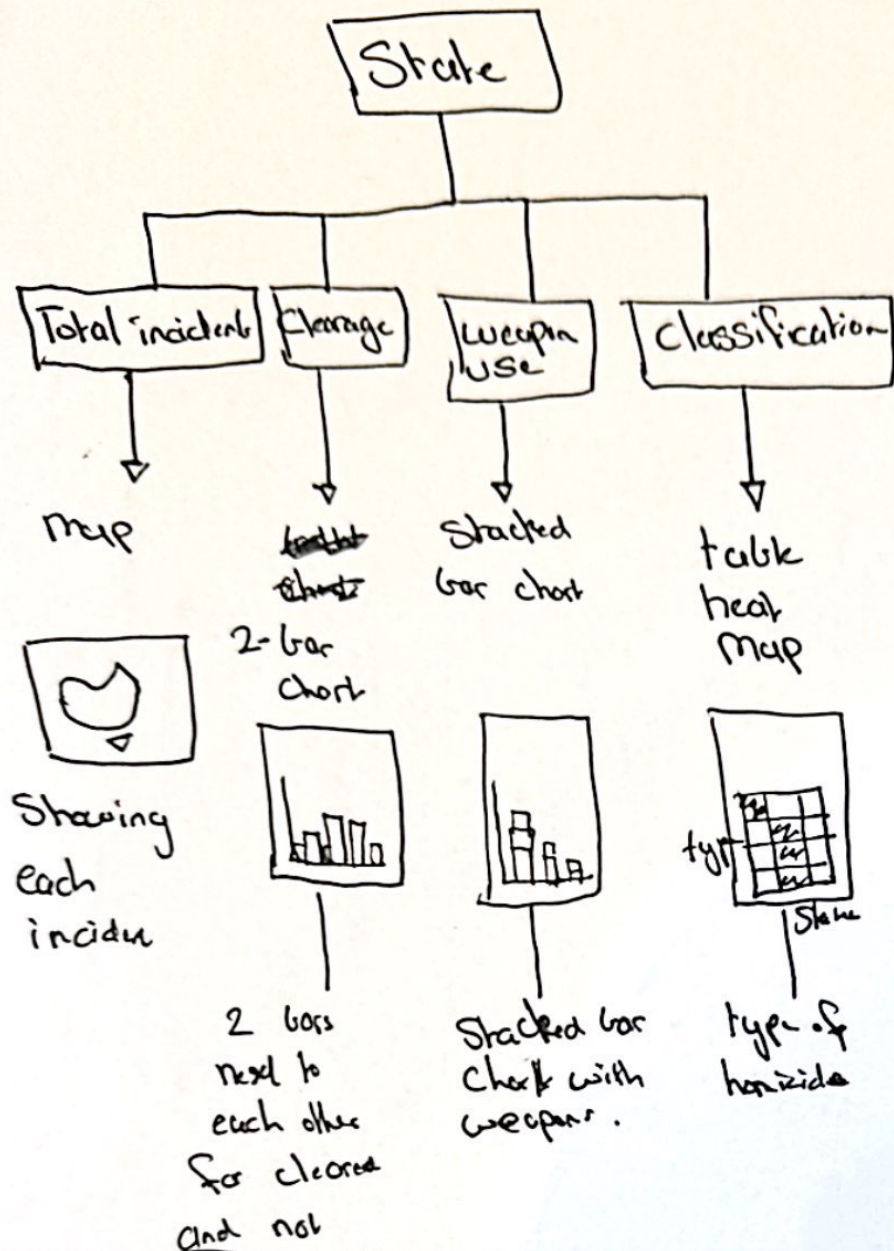
Operation

- custom tooltip
- filter
- Legend for information
- 1. legend will be shades
- Rest of items legend will be colours.

Discussion.

- Simple idiom
- 4th idiom will have 8 bar for each state to work.
- Sightline very mixed.
- Not much interactivity + show lot of information + enough space for text
 ↳ resulting in a good balance of whitespace.
- + very simple way to convey data.

Layout



Focus

- Stacked bar chart will have a filter for weapons
- All would have custom tooltips
- Bar charts would be able to select multiple states, for some comparison.
- State chosen at the start would be highlighted in the map.

Narrative Dashboard
Shivank
28/12/23
Sheet 3

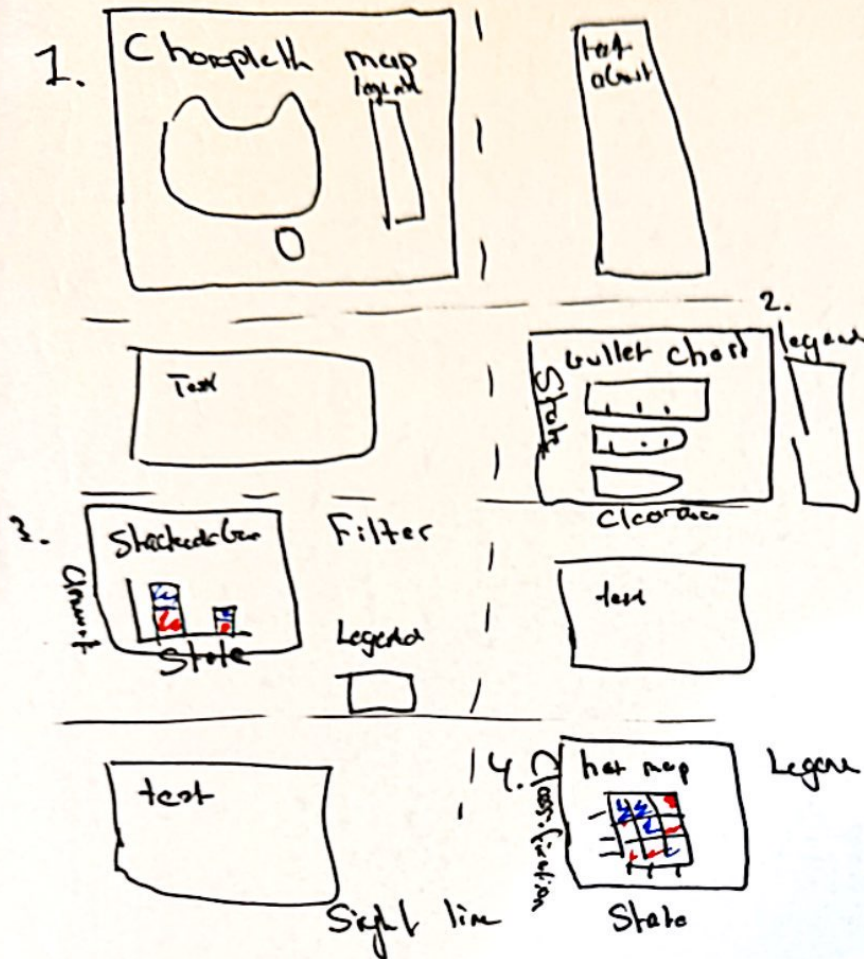
Operation

- User only sees what information they choose from the beginning.
- Once specific category is chosen then only does it display information.

Discussion

- A lot of white space
- Only one chart can be viewed at once + more interactive with user.
- More effort to view information
- Can't compare diff charts together
- ~~For~~ most users will not look at all charts available.

Layout



Dashboards.
Shivank
33120153
Sheet 4

Operation

- custom tooltip
- filter
- legends with all information
- for 1 and 4 will show each shade.
- for 2 and 3 each colour will be a different value.

Discussion.

+ Magazine style

- May be too overwhelming.

+ slider can be used for filter as well.

+ Shows all information with additional text.

- Not much white space need to be careful with color choices.

+ Adjustable and filterable data for all different users needs.

Focus

1. For total incidents
↳ will be colour coded for each state to visually show incidents.
↓
tooltip as well

2. For case clearance
↳ will be cleared or not cleared.
↳ 2 colours only.
↓
legend for what they mean.
↓
tooltip as well.

3. For weapon used
↳ each colour is a different weapon.
↳ colour line palette.
→ x axis will be state
↳ y axis will be amount
↳ tooltip as well.

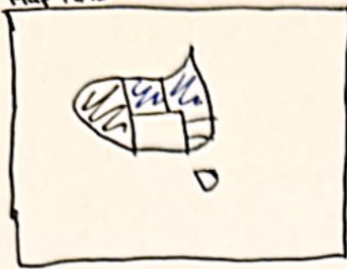
4. For homicide classification.
↳ 2 axes each state
↳ y axis each different type of homicide.

Final Layout - Using Sheet 4.

Main Title

Subtitle

Map title



Legend



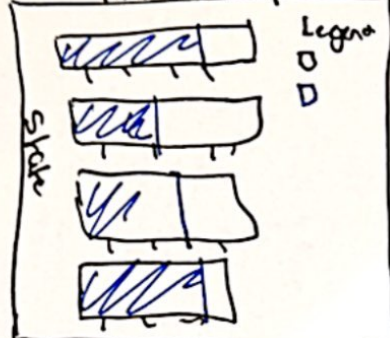
Text

Clearance

Title

Info about
idians

Title of map

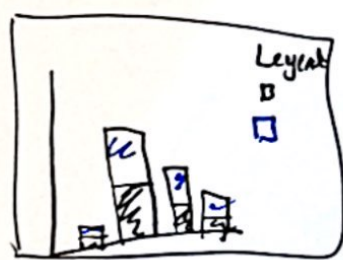


Legend

Weapons used

Title

Info about
visualisation



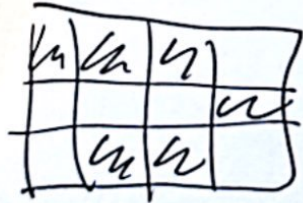
Legend

Classification

Title

Info about
visualisation

Filter



Legend

Focus

Iterable stacked
or chart.

Legend to display
each topic clearly

- highlight specific
weapons when
selected.

Dashboard
Shivam
3312053

Operation Sheet 5

Custom tooltip for
map, stacked bar chart
and bullet chart.

- Custom filter for
stacked bar chart.

- Filter will allow
selection of one or
multiple weapons.

- Complex idioms with
lot of information.

Detail

- Dynamic clickable
parts with tooltip.

- Reduce large amounts
of whitespace.

- Still ensuring good data
to ink ratio.

- Database implemented
using CSV files.

- Time to implement 2
weeks.

- Magazine style for
clear viewing.