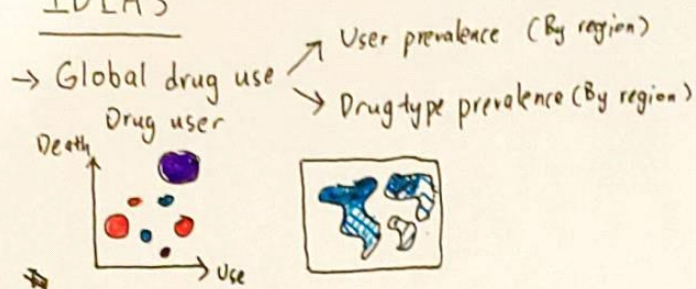
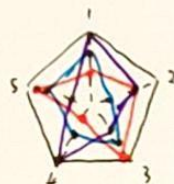


## IDEAS

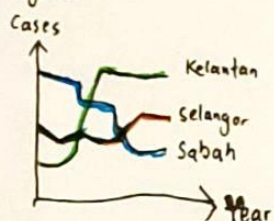
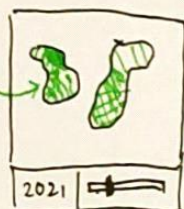


Drug type

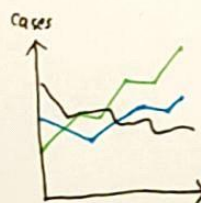
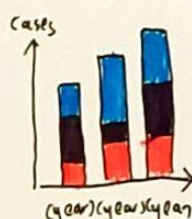
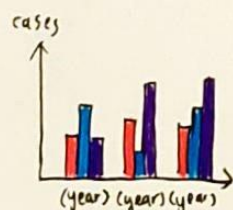


→ Prevalence in Malaysia

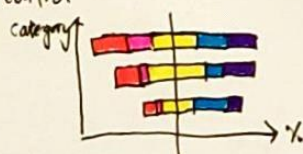
Sequential color scheme



→ Risk group HIV Prevalence

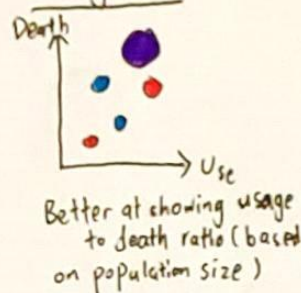


→ Hope and self control



## FILTER

Drug User



Drug type



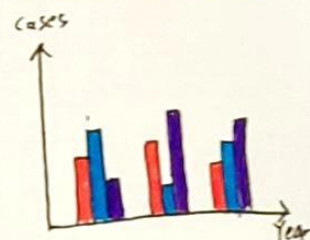
Better at comparing prevalence among population

Prevalence in Malaysia

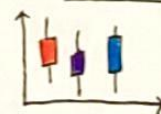


More engaging and useful

Risk group HIV

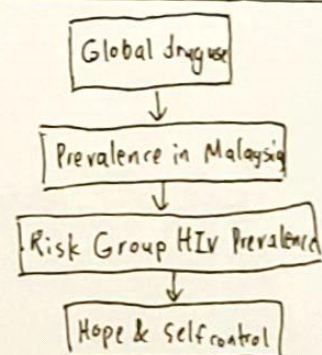


Better to compare values Hope and self control

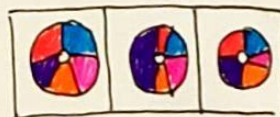
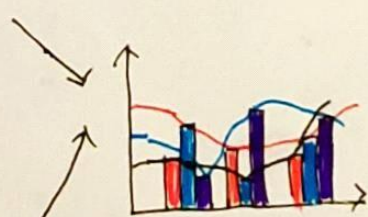
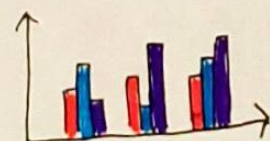
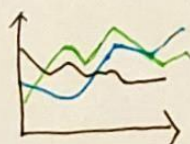


Better at Comparing survey data between multiple category

Categorize



## COMBINE & REFINE

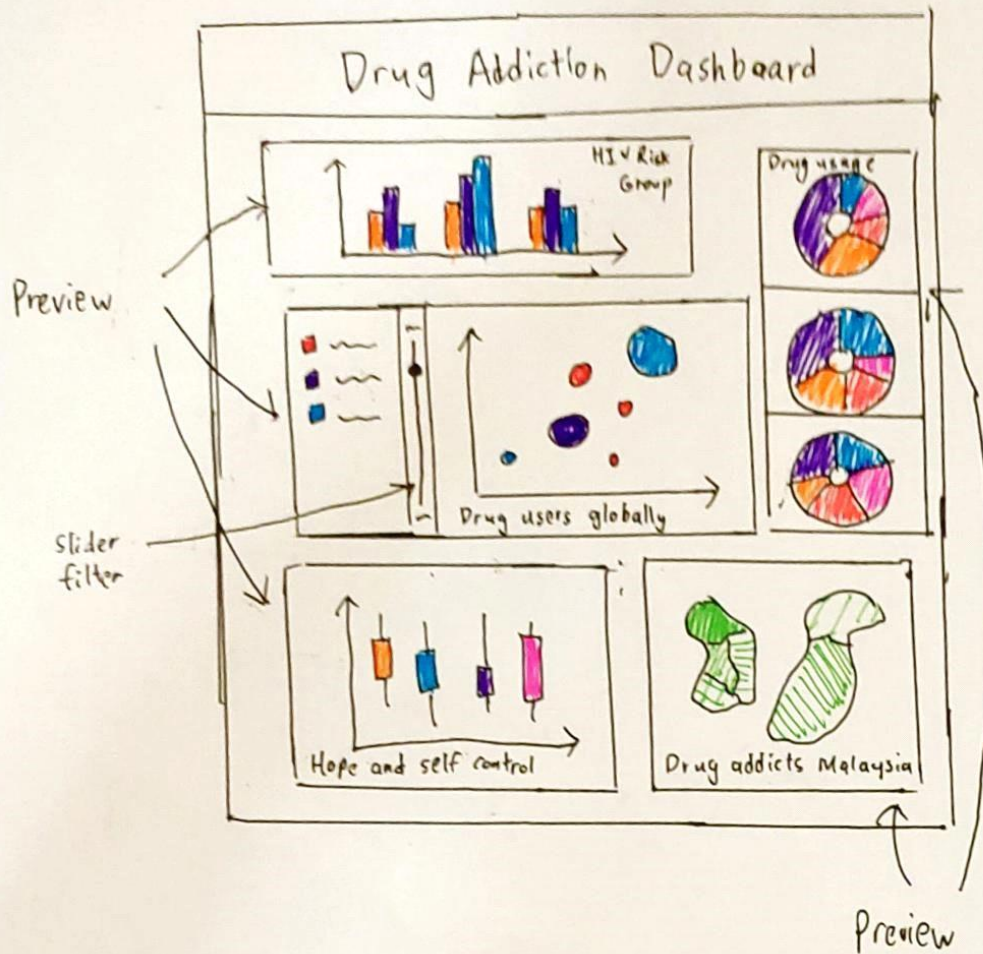


## QUESTIONS / DISCUSSIONS

- 1) Is the visualisation intuitive and easy to understand?
- 2) Does the visualisation serve the purpose of providing insights towards drug addiction in Malaysia.
- 3) Is the visualisation doable in Vega-lite
- 4) Do the idioms vary and different enough from one another to be unique.



# LAYOUT



Title : Dashboard view

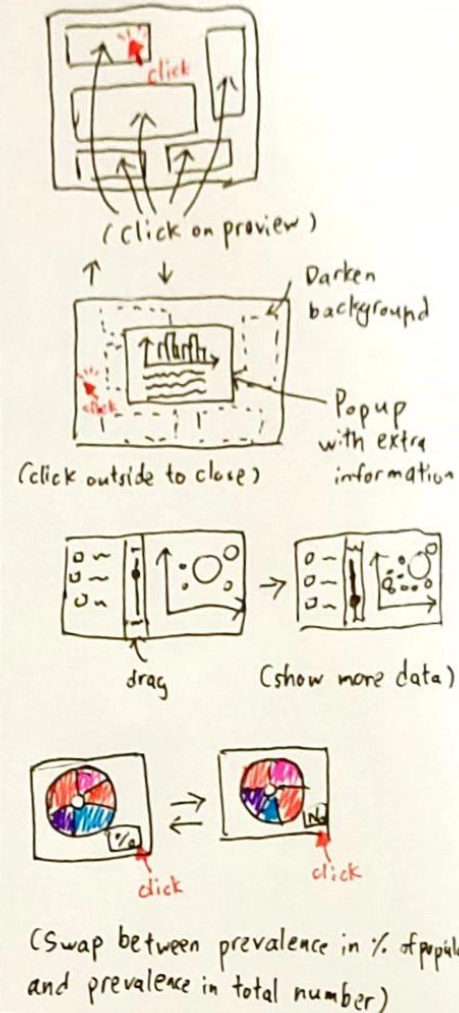
Author: Andreas Kok

Date : 9/10/2024

Sheet : 2

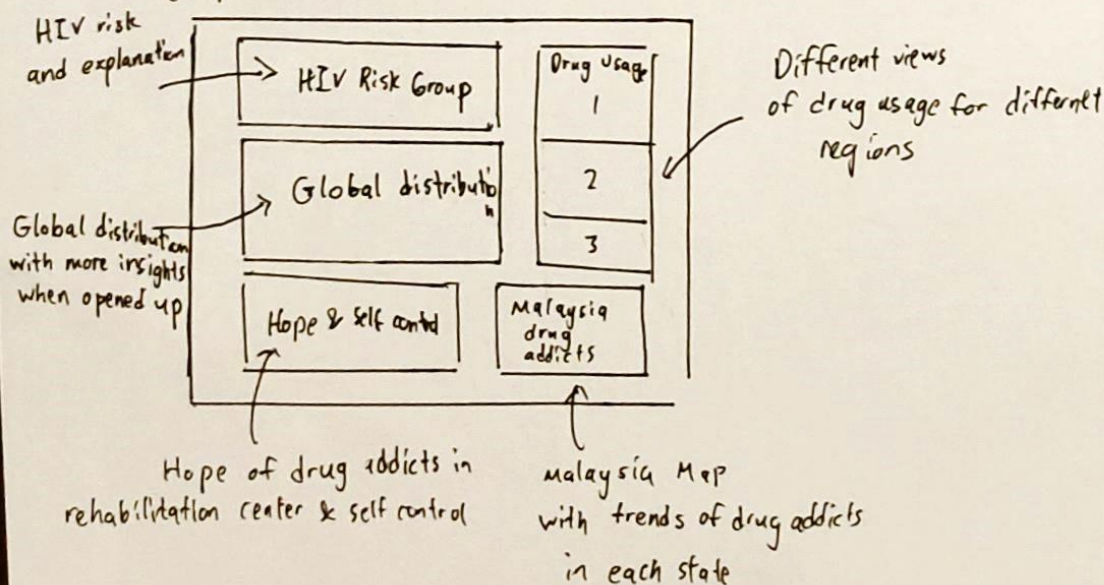
Task: Drug distribution dashboard

## OPERATION:



## FOCUS

Focus is around the centers, but all charts are relevant to the viewer.  
(Important data closer to center)

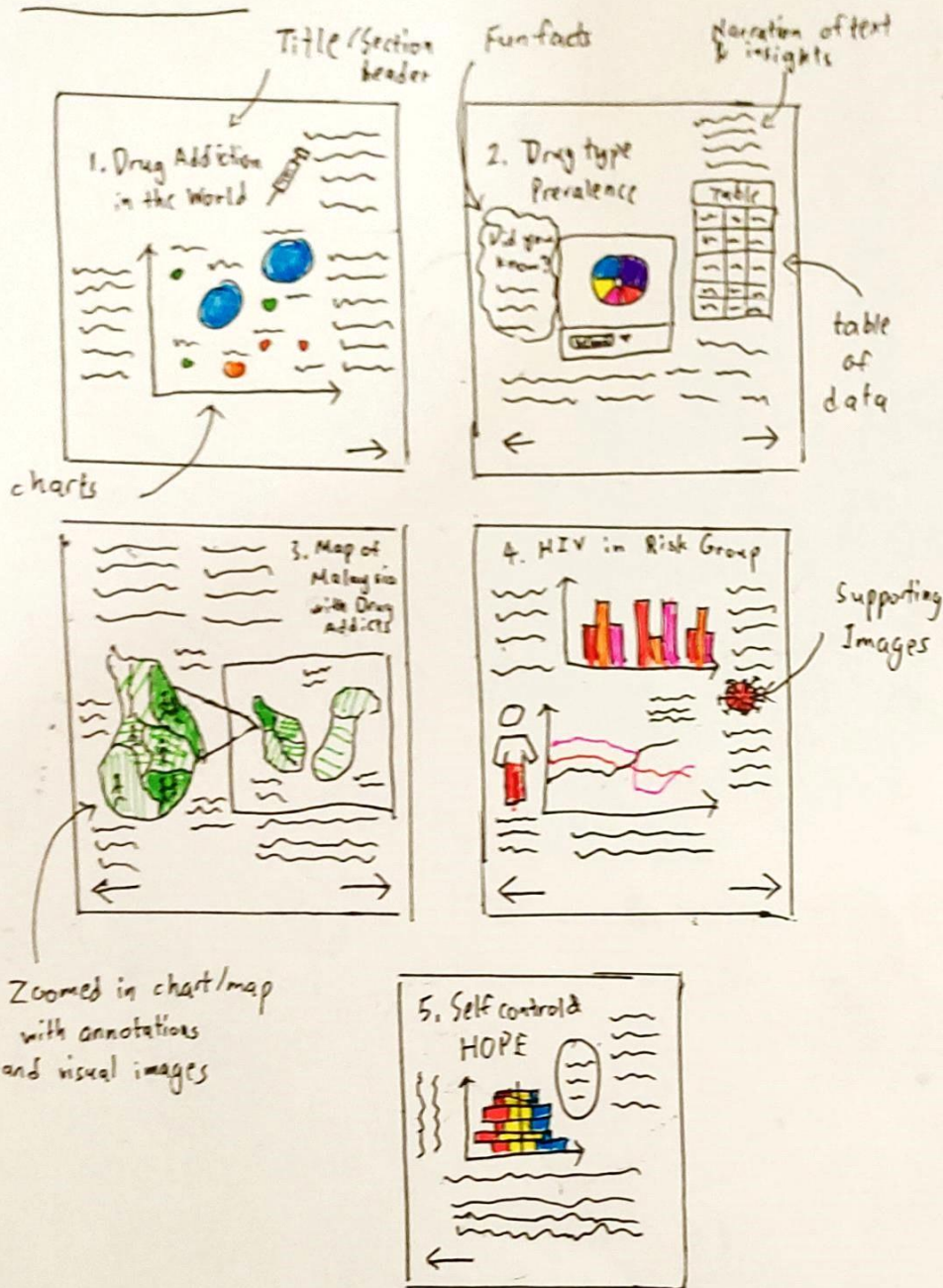


## DISCUSSION

- 1) No storytelling element
- 2) Too much clutter in one page (crowded)
- 3) Not intuitive to use
- 4) More suited for updated data not historical data
- 5) Cognitive overload of information



# LAYOUT



Title: Drug Addiction Magazine

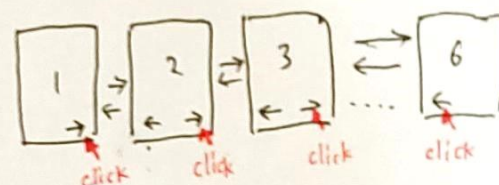
Author: Andreas Kok

Date: 9/10/2024

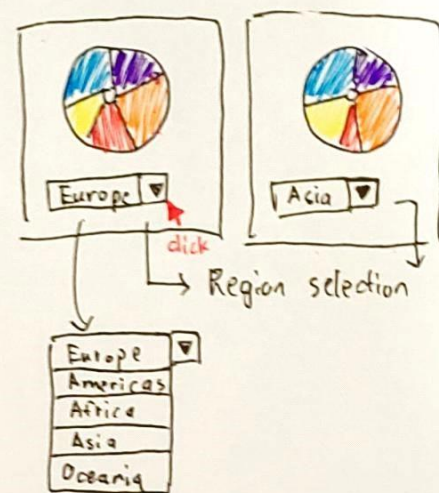
Sheet: 3

Task: Drug Addiction Magazine

## OPERATION



→ Page navigation button

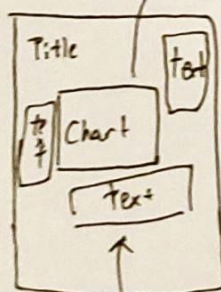


Tooltips & Annotations

→ Show concise data and insights

## FOCUS

- Visual hierarchy on the center chart
- Colors used to highlight important statistics or information
- Text is scattered around the chart to reduce whitespace
- Rich storytelling through the use of visual images & narration in text



Informative text providing storytelling narration and facts about the topics. Includes insights from cited sources and other authors or articles.

- 1) Bubble chart of drug user distribution around the world
- 2) Donut or pie chart of drug type usage around different regions
- 3) Map of Malaysia with choropleth map to show drug addict distribution around states
- 4) Group bar chart and ~~line~~ line chart showing HIV prevalence in risk groups
- 5) Diverging stacked bar chart to show perceived hope and self control of recovering drug addicts

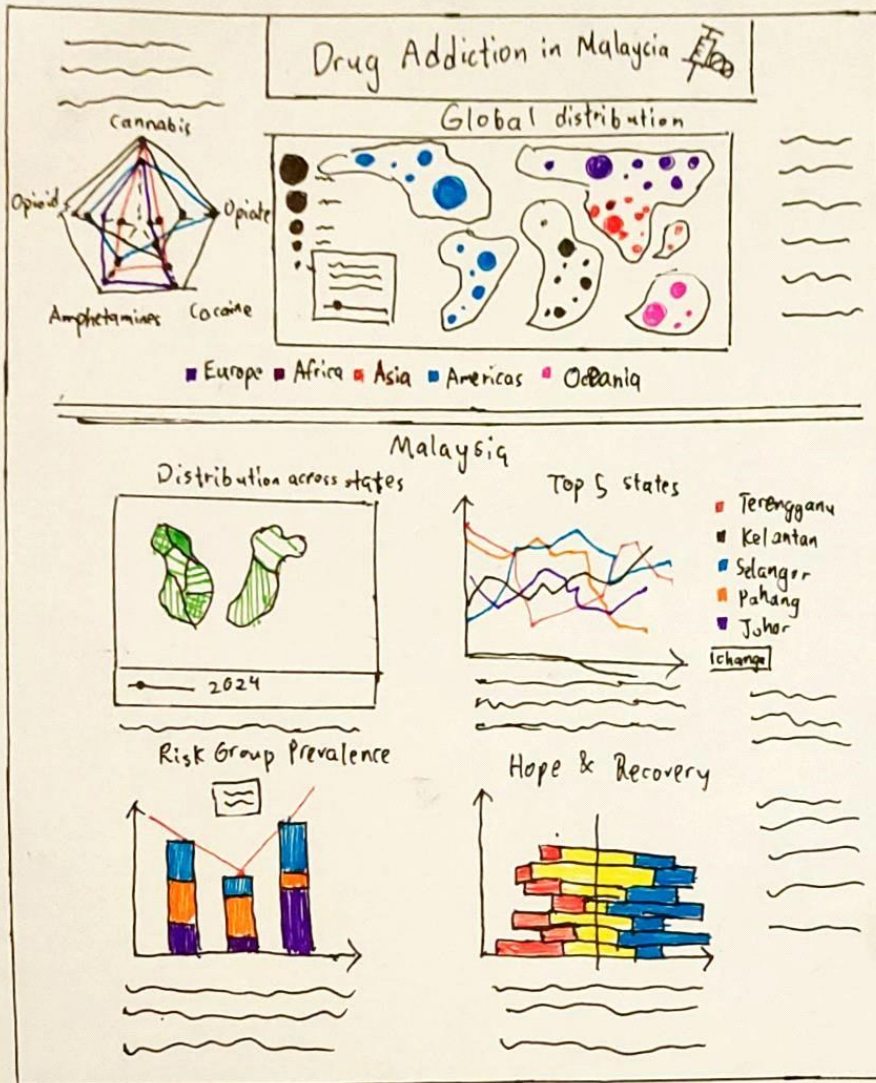
- Includes annotations

## DISCUSSION

- 1) Too wordy, may cause users to get bored
- 2) Few opportunities for interaction
- 3) Hard to have good layout and figure ground
- 4) Additional information needs to be sourced and cited.
- 5) A lot of chart junk



# LAYOUT



Title: Drug Addiction Poster

Author: Andreas Kok

Date: 9/10/2024

Sheet: 4.

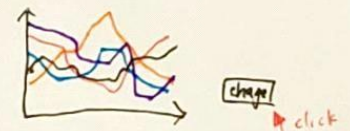
Task: Partitioned Poster

## OPERATION



slider for years (change years)

legend filter to highlight regions



Button to swap between line chart and bump chart for rankings

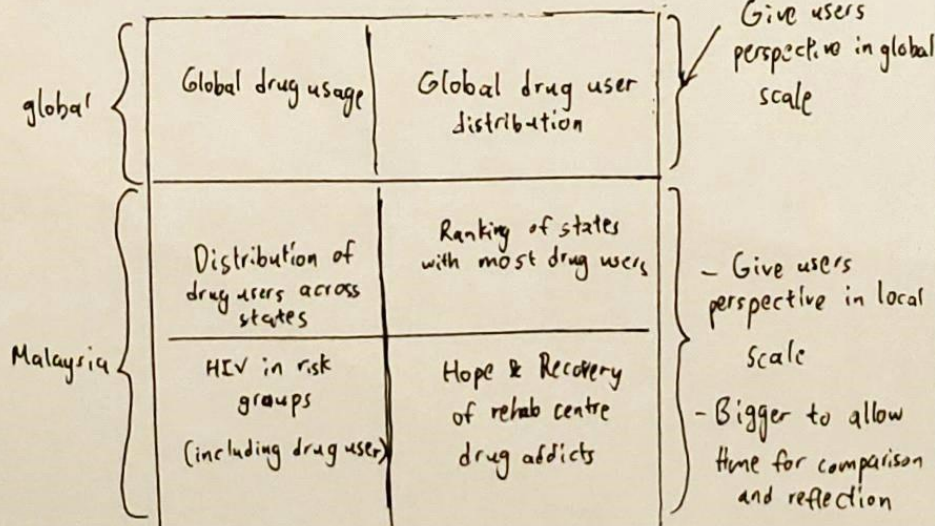


## FOCUS

- Divided into 2 halves

Global focus

Malaysia focus

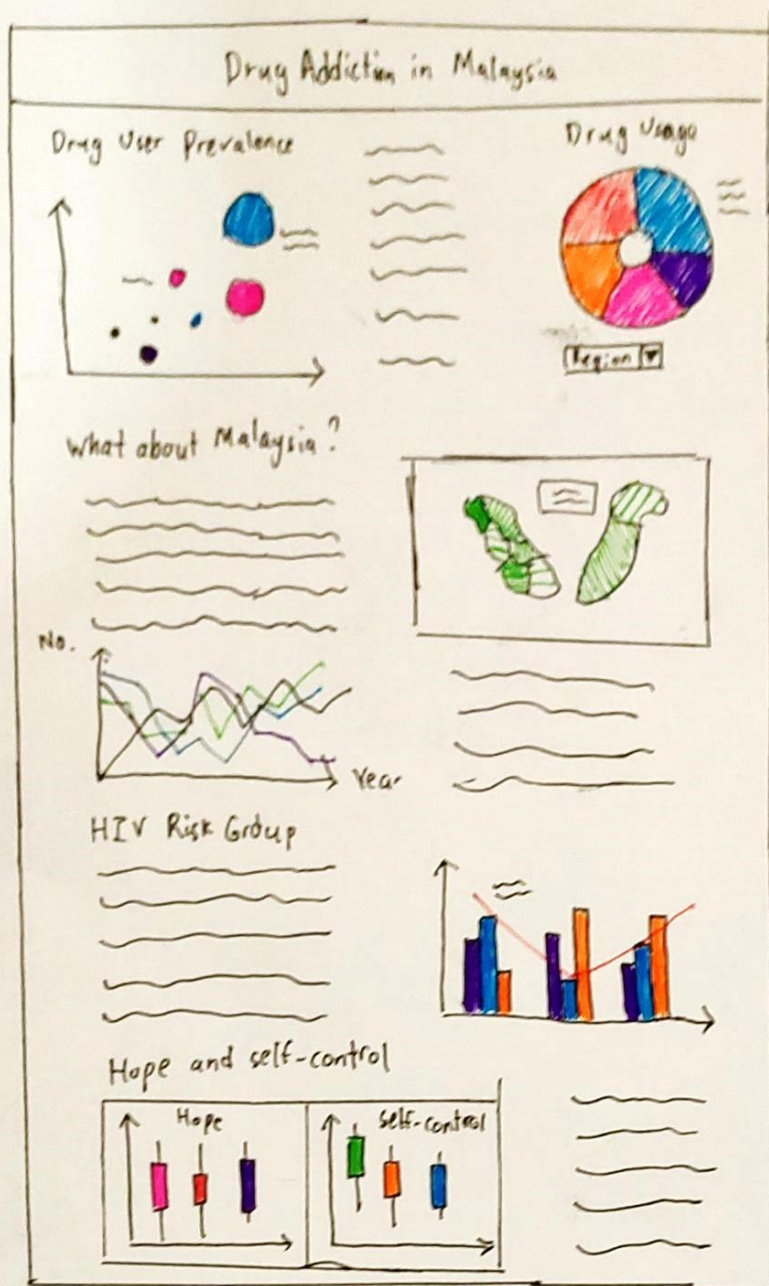


## DISCUSSION

- 1) Clear separation of scales, makes it harder to string a narrative
- 2) Is the radar chart possible in Vega-lite alone?
- 3) Not enough space for annotations
- 4) No clear visual hierarchy, i.e. hard to tell which section is more important.



# LAYOUT



Title: Partitioned poster + Magazine  
 Author: Andreas Kok  
 Date: 10/10/2024  
 Sheet: 5  
 Task: A partitioned poster with magazine elements

## OPERATION

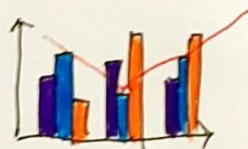


→ Filter based on population size

→ Filter based on region



2021 → year filter



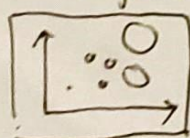
click

→ highlight based on legend

## FOCUS

- combination of partitioned poster + magazine
- focus is on the whole page itself

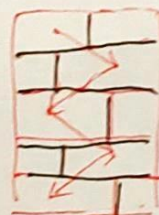
Secondary focus



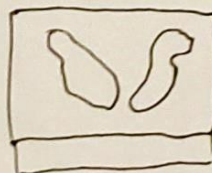
provide context & insights

Drug User Prevalence	Drug Usage
Title text	Map of Malaysia
Line chart	text
Title text	Group bar chart with line
Title Box-plot (dual)	Text

Visual flow:



Main focus



## DETAILS

- long format csv (use excel for pivot)
- use HTML, Bootstrap, Javascript, Vega-lite
- time: 1 dayper chart + 2 hrs for structure + 1 day for CSS