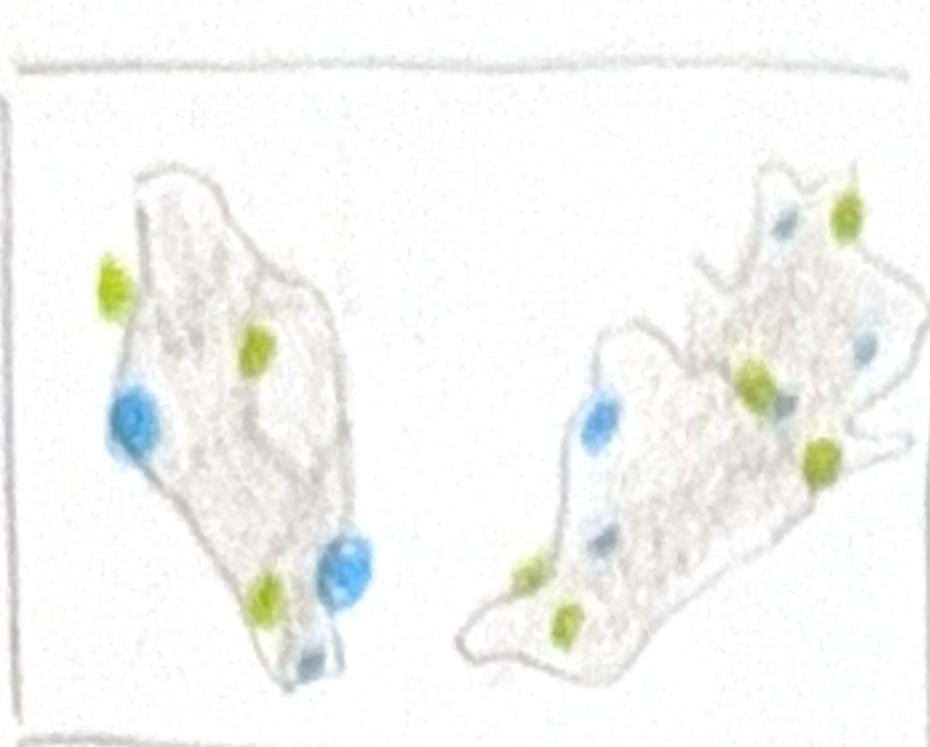


IDEAS



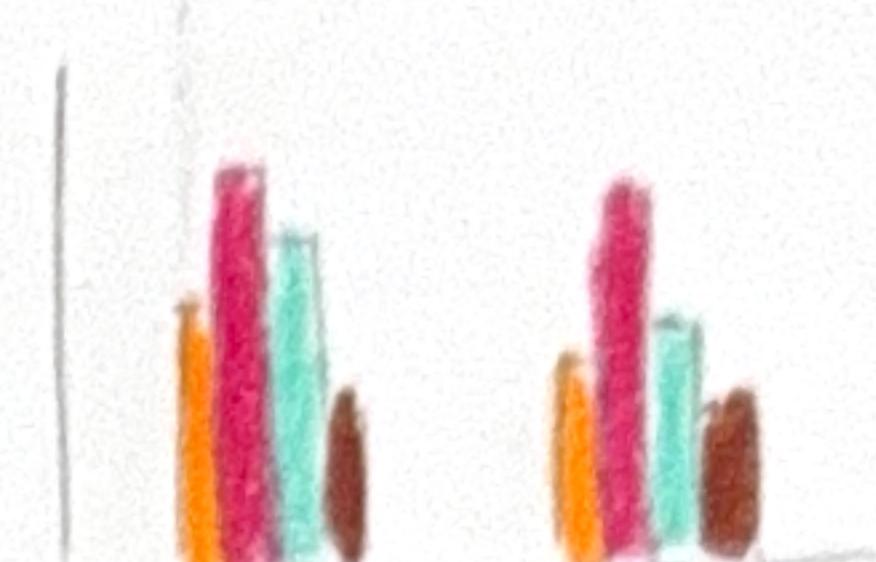
Choropleth Map



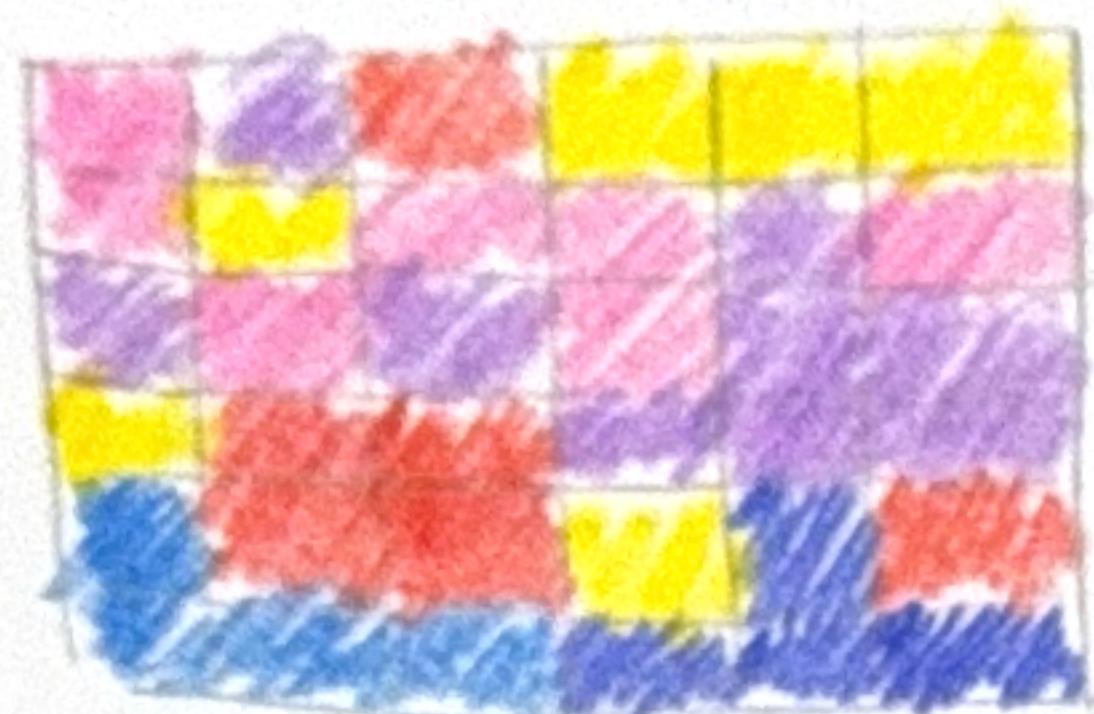
Symbol Map



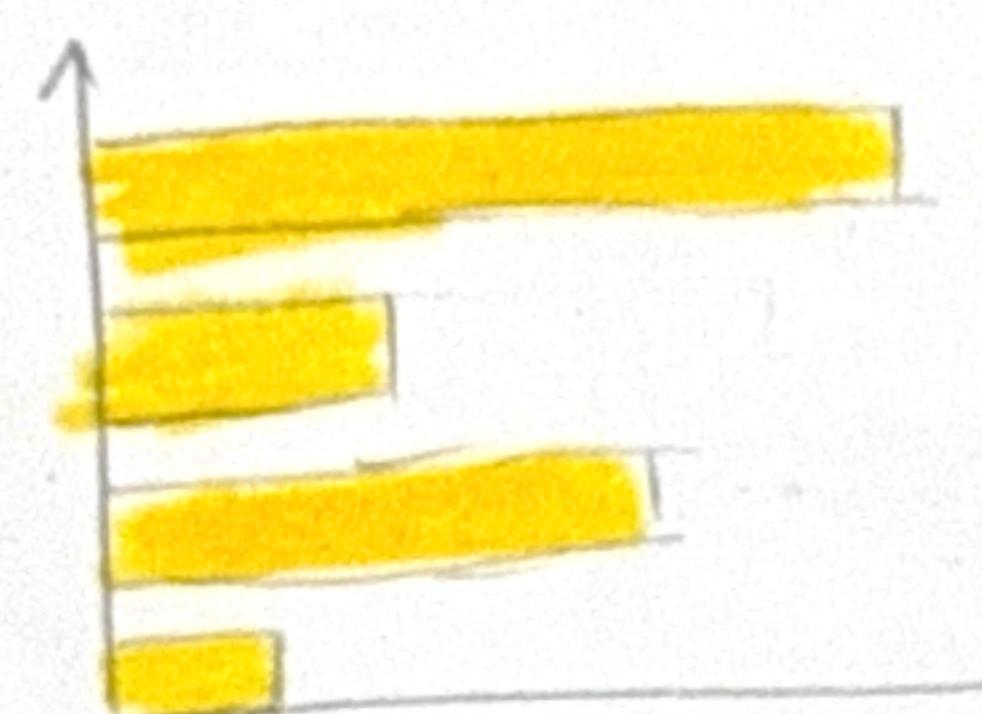
Bubble Chart



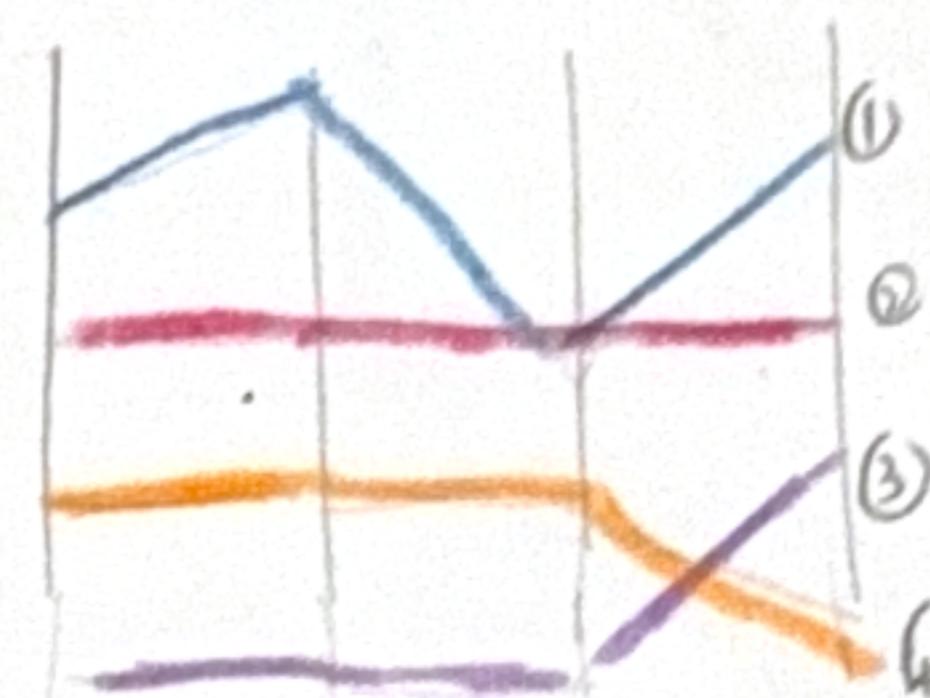
Group Bar Chart



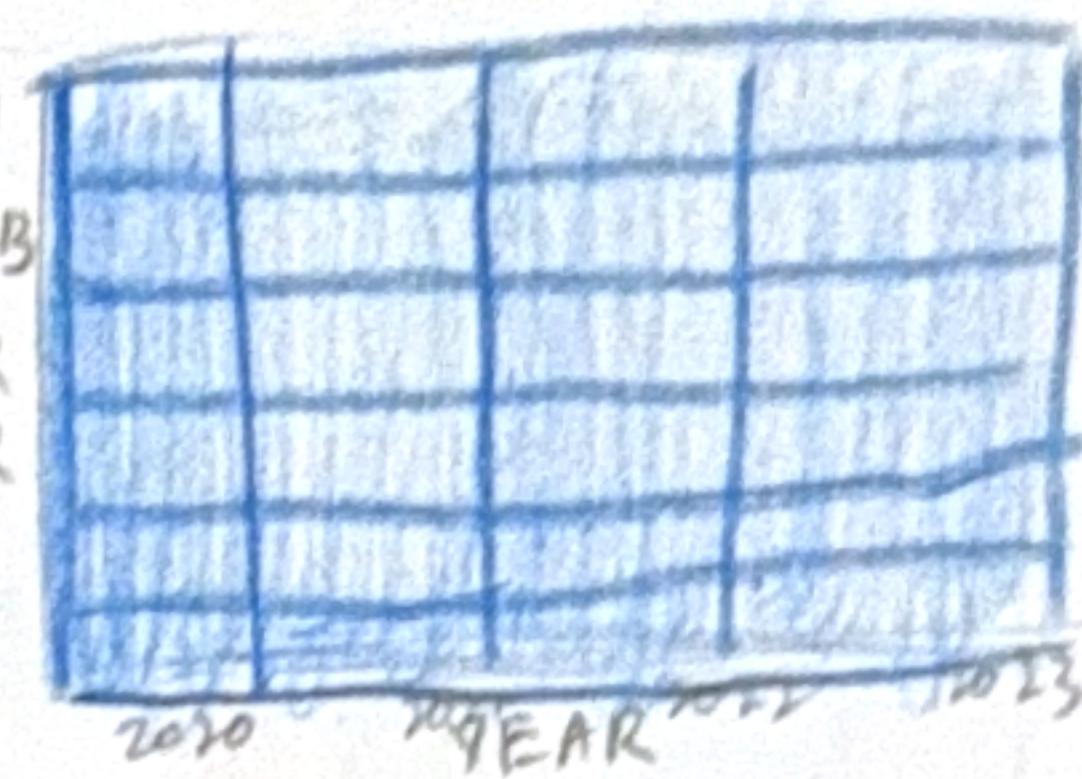
Heat Map



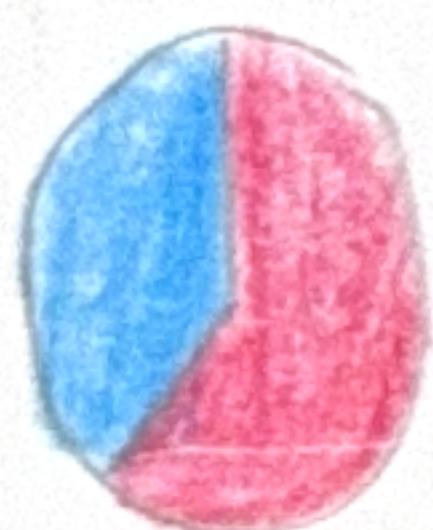
Bar Chart
(Top 5 / 10)



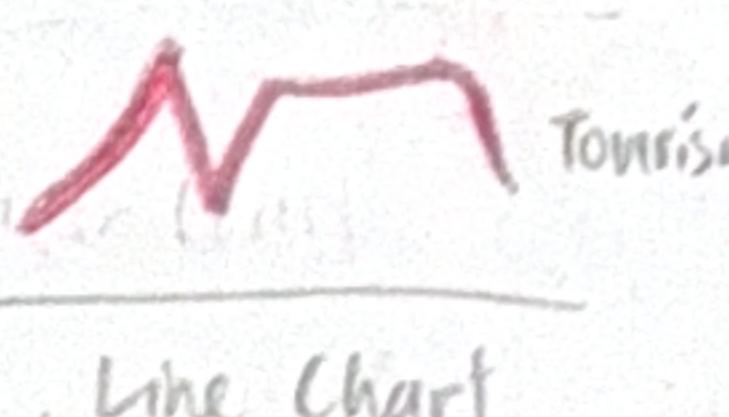
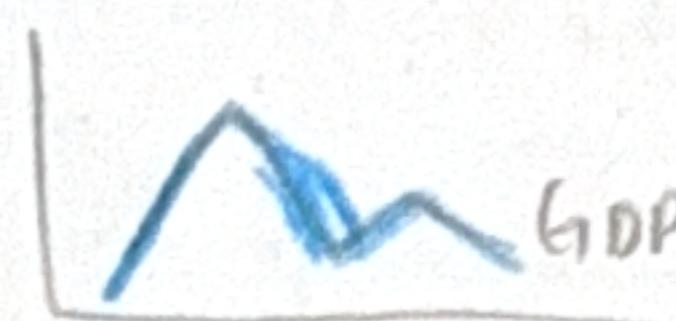
Bump Chart



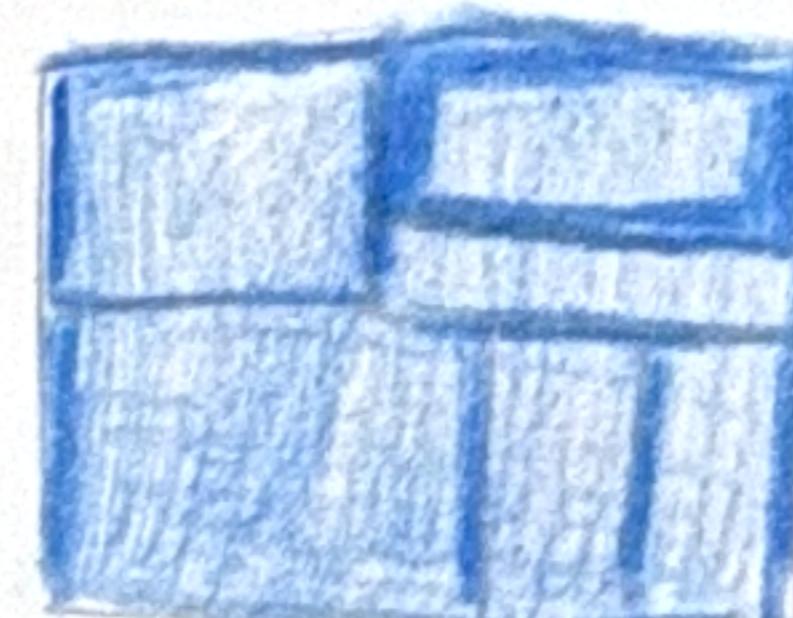
Treemap



Pie Chart



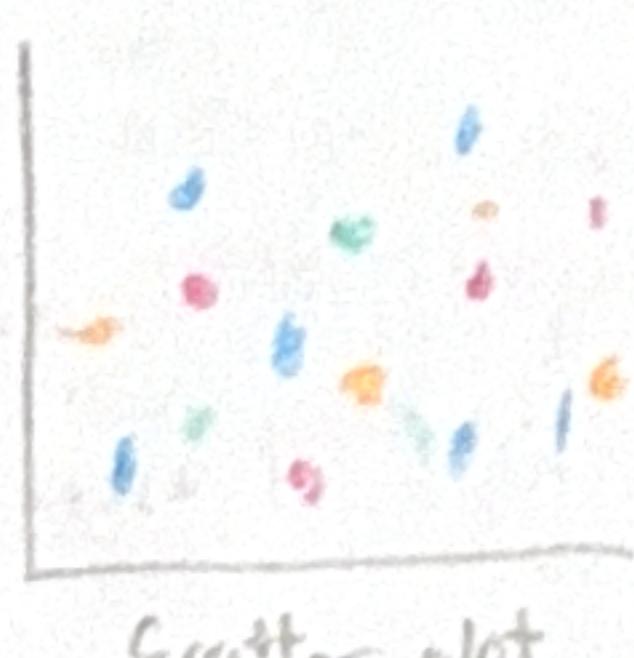
Line Chart



Treemap



Stacked Bar Chart



Scatter Plot



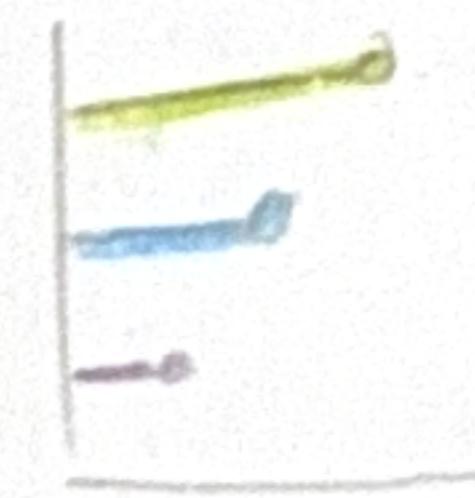
Donut Chart



Sankey (flow)

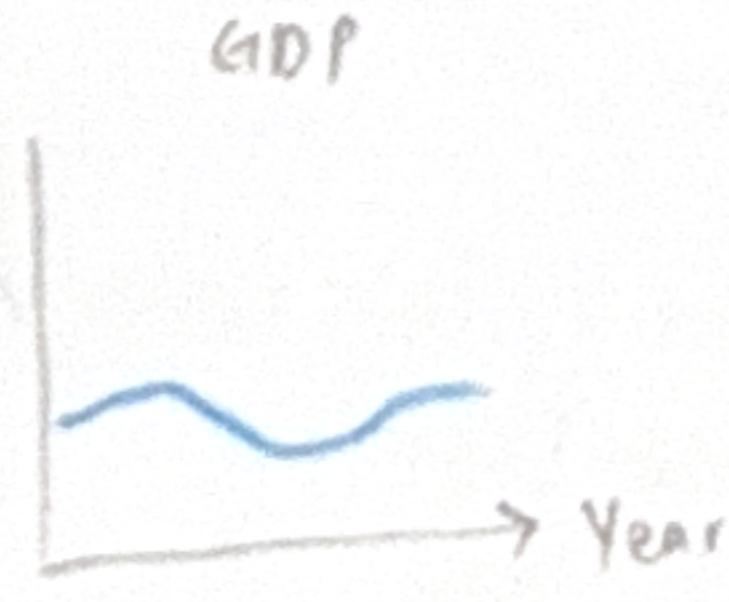


Stacked Area Bar Chart



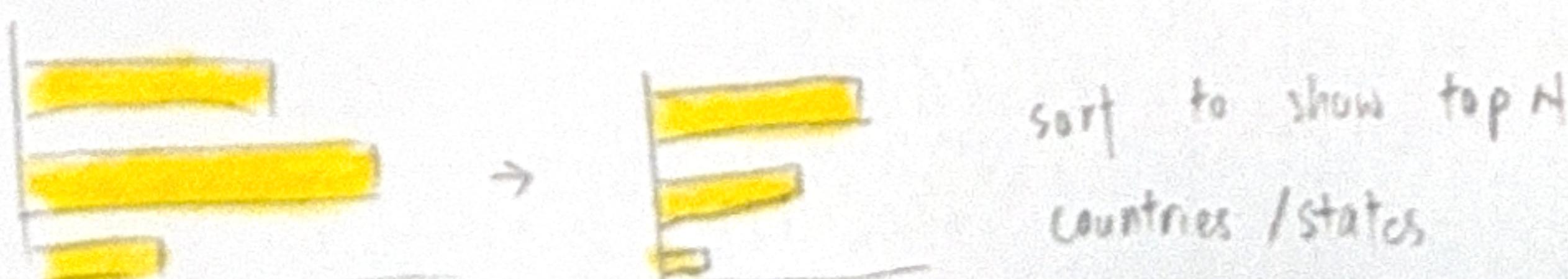
Lollipop

Combine & Refine

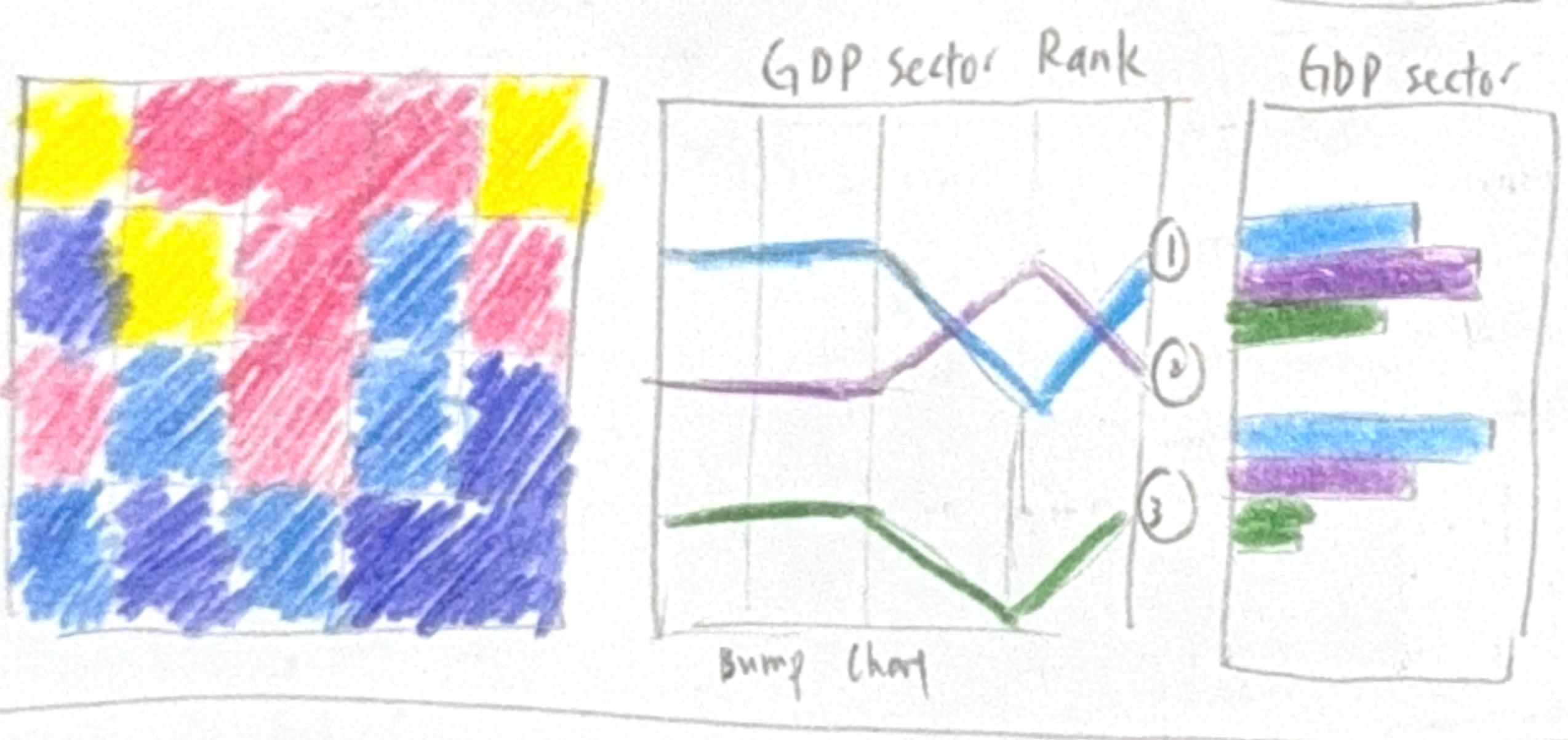
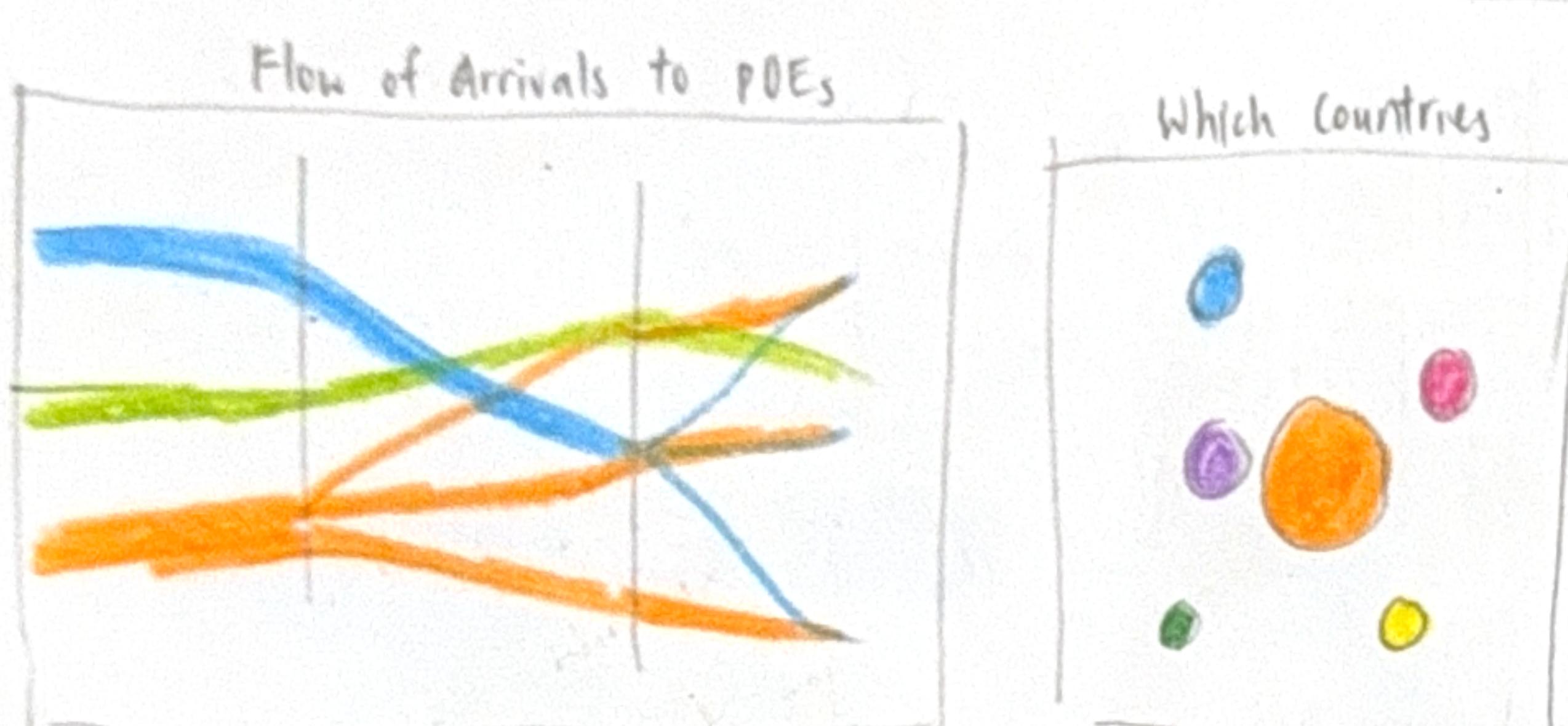
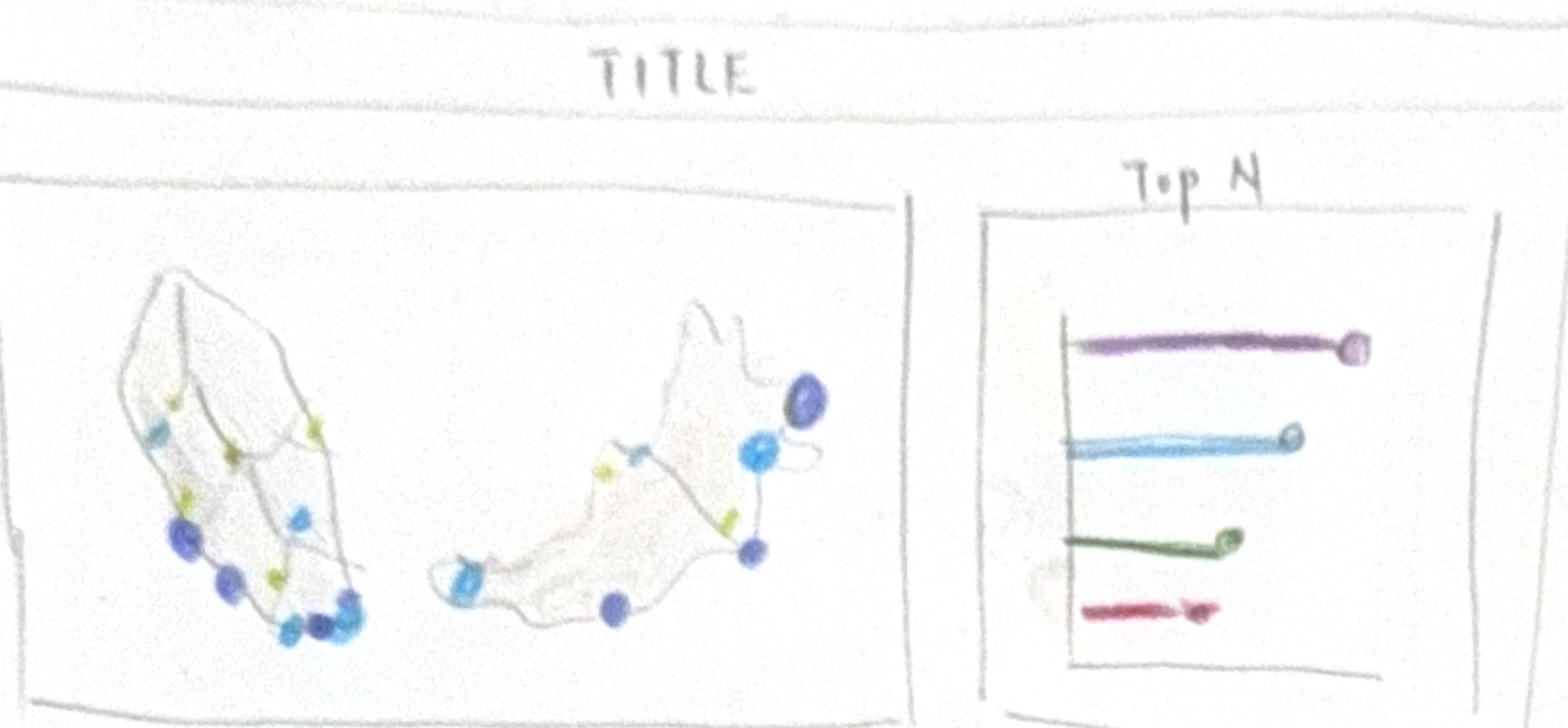


Summaries & Questions

- ① Target Audience? Purpose of visualisation
- ② Is it covered the topic?
- ③ Is sankey necessary? Is it too complicated?
- ④ What's the drawback?



Layout

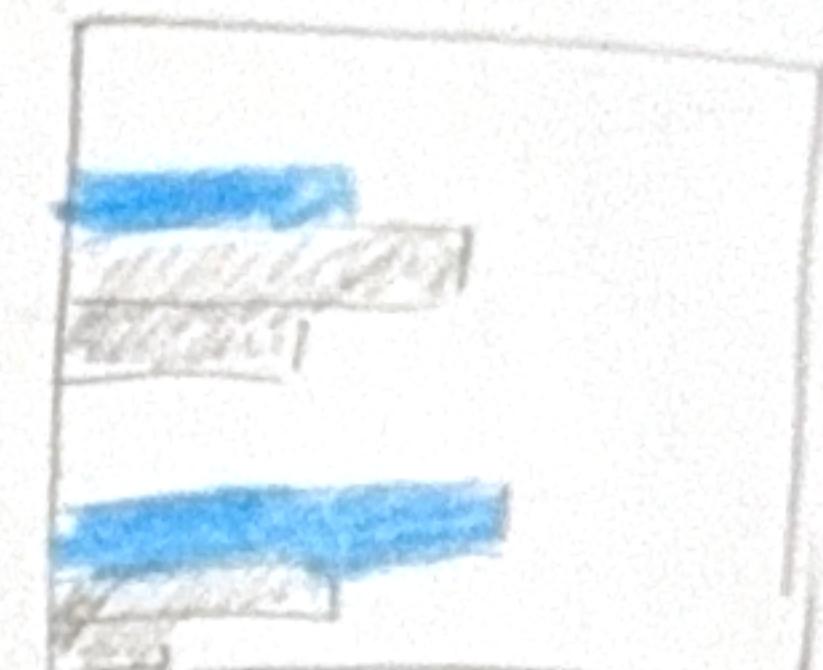
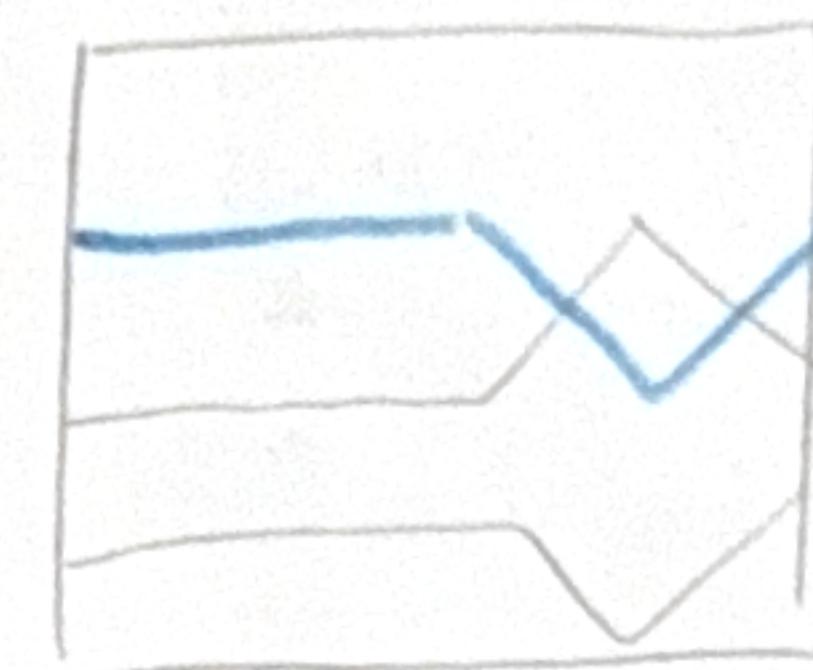


Sheet 2

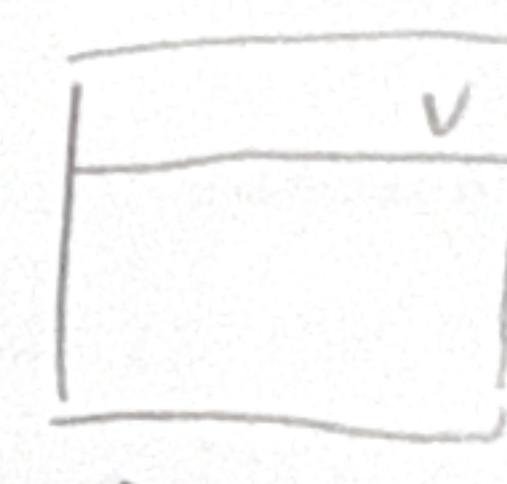
Name Ng Jing Yuan

Date 12 / 10 / 2025

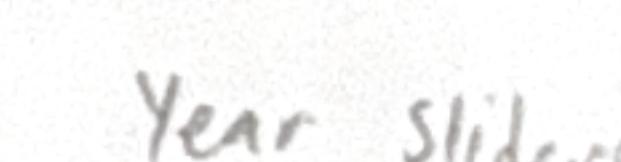
Components / operations



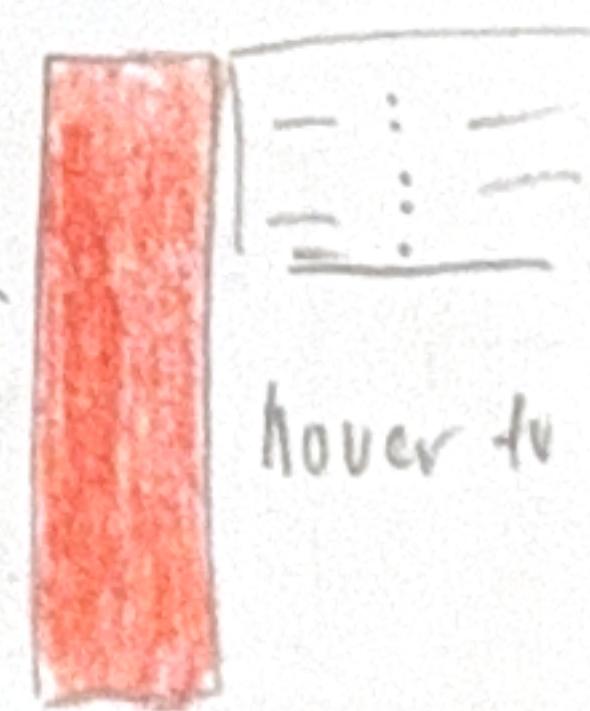
GDP sector (click one, another also change)



Dropdowns

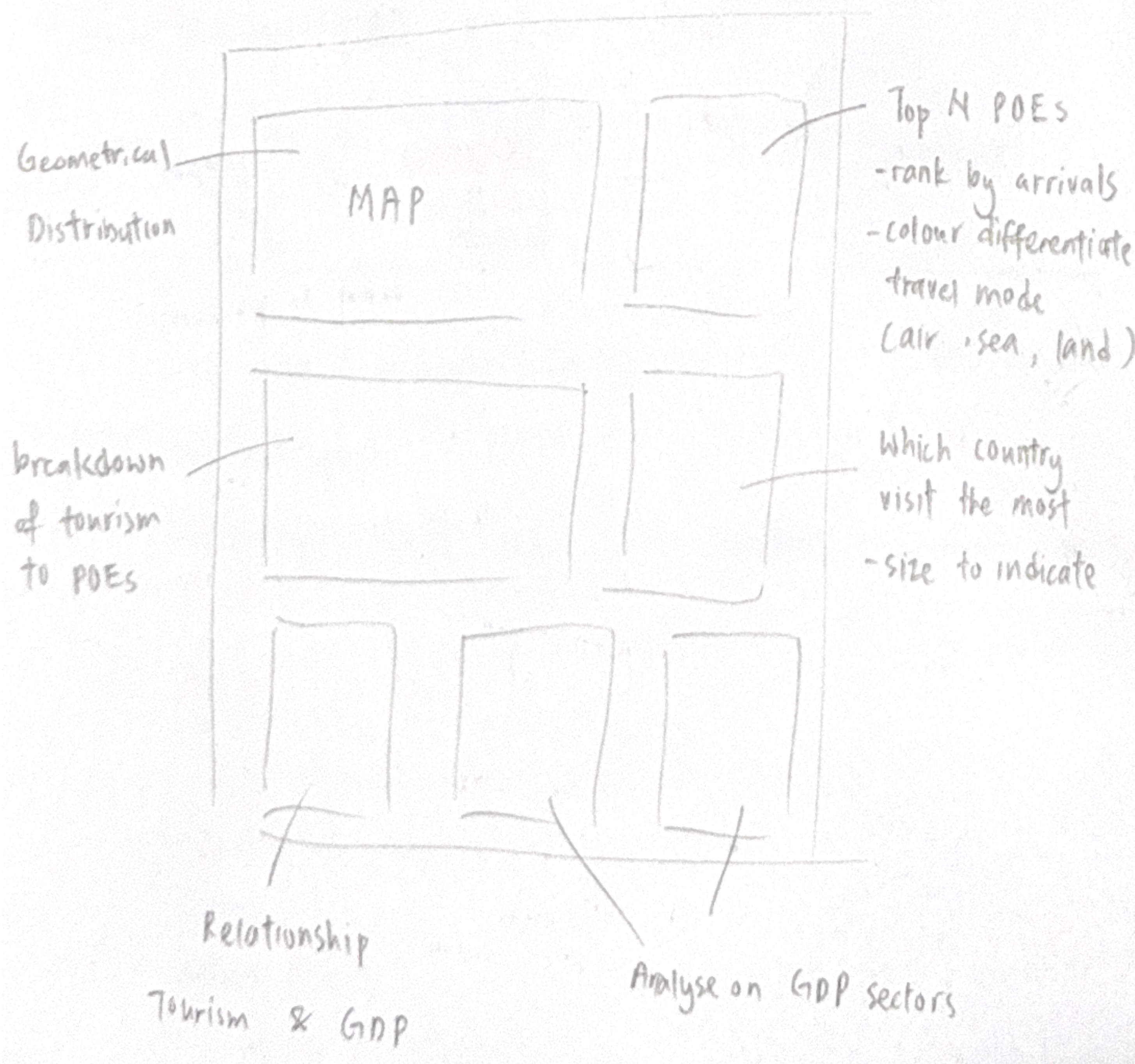


Year Sliders



Hover to see tooltips

Focus



Pros & Cons

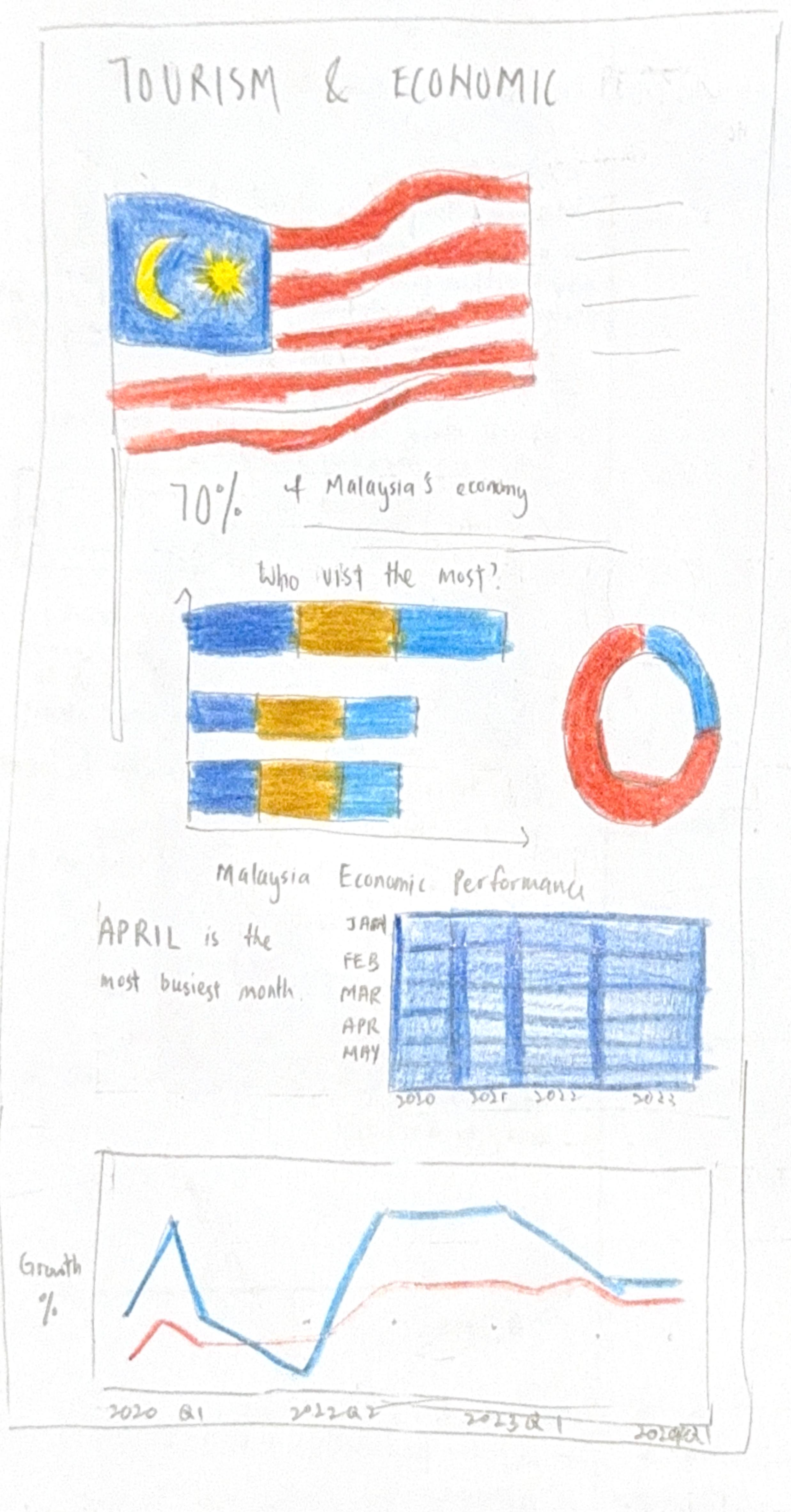
Advantages :

- Best for presentation - linear story, no distraction.
- Focus & compact
- Comprehensive coverage

Disadvantages :

- too many charts without explanation
- Weak on story telling

Layout



FOCUS

① Key technique

- visual eye catching images and typefaces to capture attention

② Stacked bar chart

- ↳ analyse how visitors come to malaysian
- ↳ top N countries

③ Donut chart

- ↳ gender distribution

④ Calendar-style heatmap + line chart across year.

- ↳ time based analysis

sheet 3

Name: Ng Jing Xuan

Date: 13/10/2025

Title: partitioned poster design

Components / Operations

① User read from top left to bottom right as if reading a poster.

② Dropdowns and slider to filter



③ Tooltips upon hover.

Pros & Cons

Advantages

- viewer attentions are easily captured.
- storytelling: easy to follow with images and bolded + enlarge words (eg: 70%, APRIL)

Disadvantages

- Chart Junk: Data Ink Ratio Problem
- Sightlines problem as harder to adjust the size of images.
- user may miss out some informations

Layout

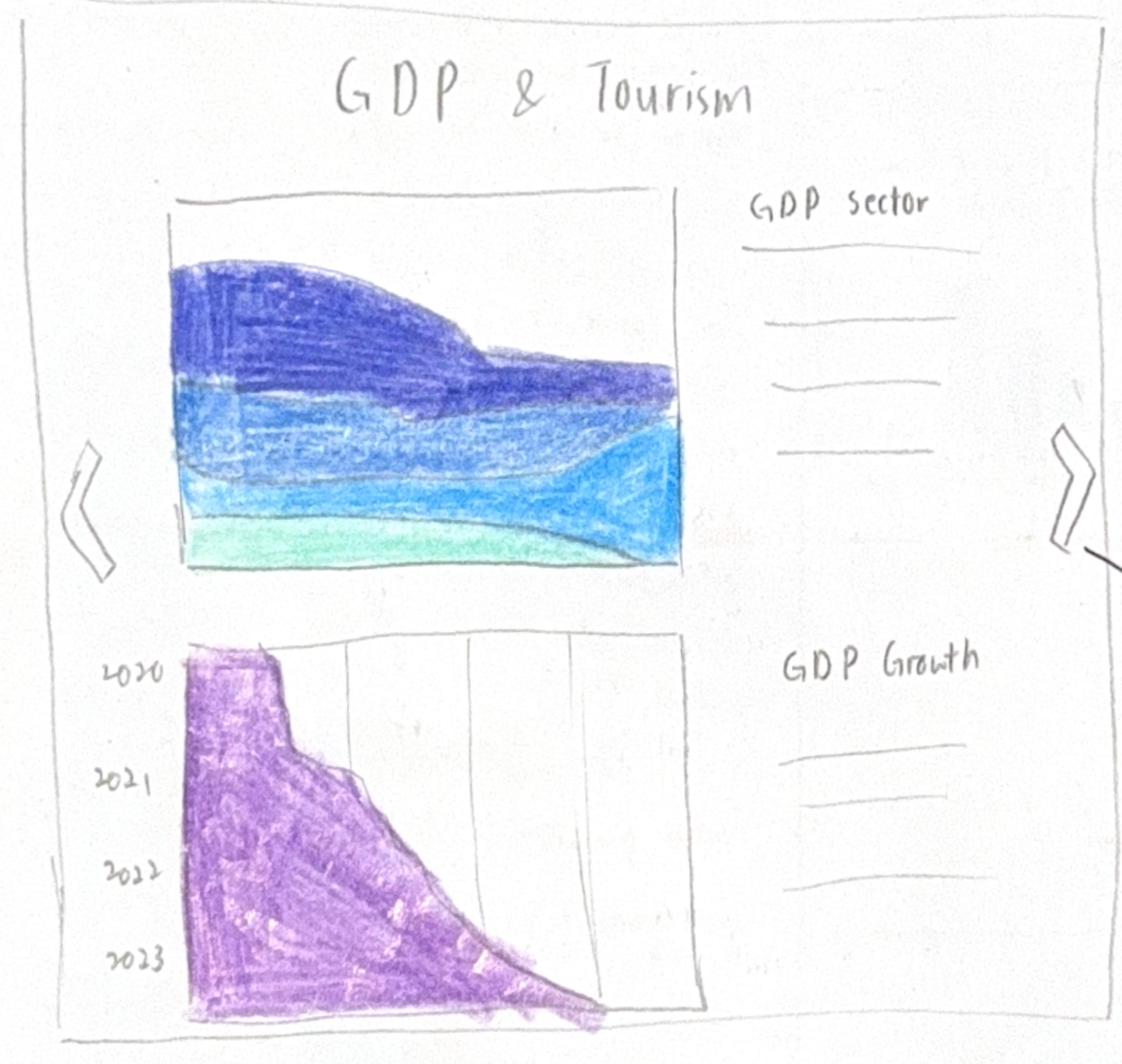
slideshow



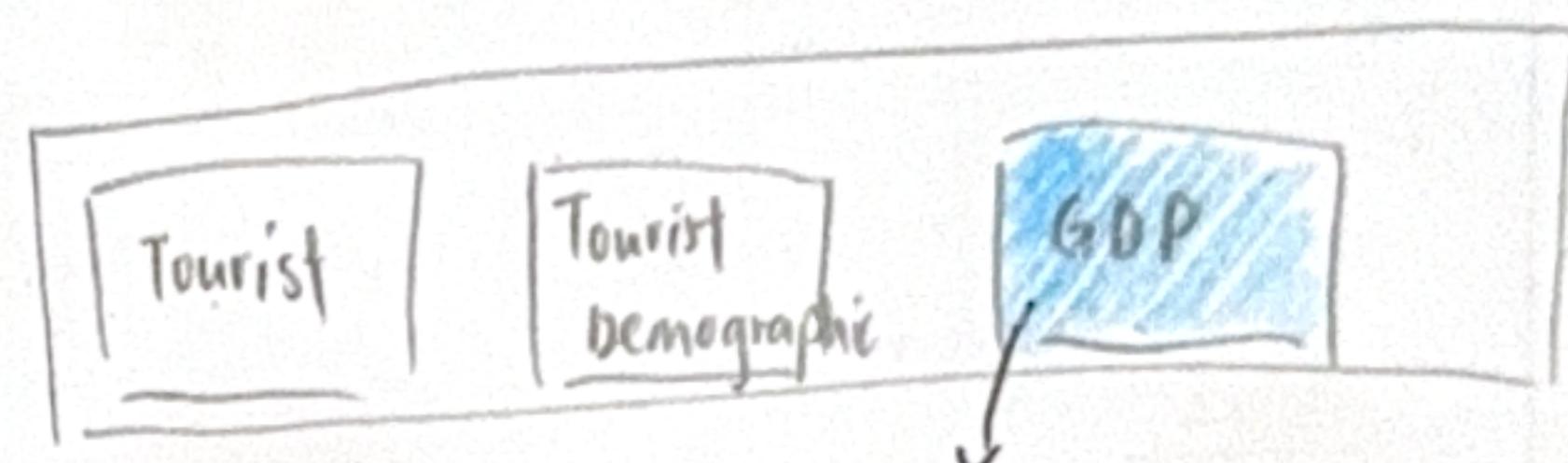
sheet 4

Name : Aly Jing Xuan

Date : 12/10/2025



Components / Operations



highlighted to show user current slide

① ② ③ circular indicator also help user to know where are they

arrows allow user to navigate to next/previous slides

Tooltips / Annotations when hover over the mark.

Pros & Cons

Advantage

- Guide users as they focus on one section at a time with explanation
- easy to follow
- No chartjunk

Disadvantages

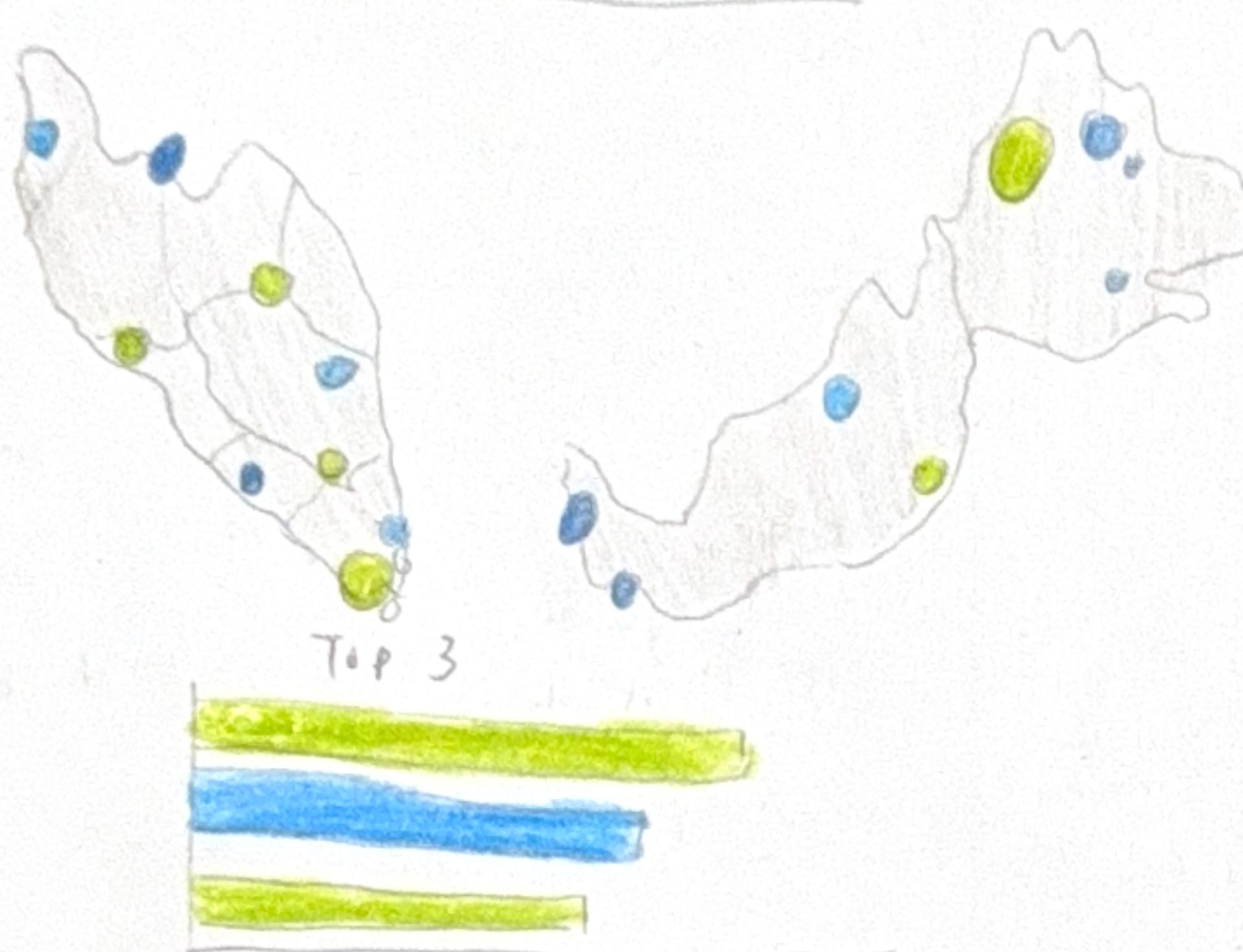
- Inconvenience as user have to keep pressing the button for navigation.
- User cannot explore / compare themselves

Focus

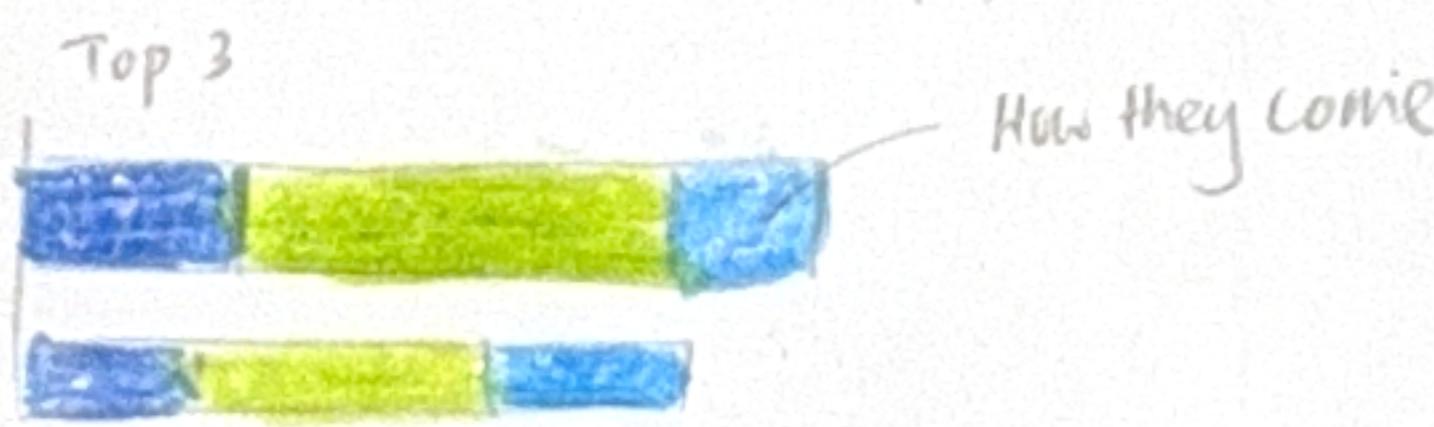
- ① Show one section with 2-3 visualisations at a time to maximise clarity and attention in information
- ② Progress bar (dot indicators) allow user to navigate easily.
- ③ slide 1 - focus on analysis on arrivals and POEs
 - ↳ how many?
 - ↳ where?
- slide 2 - Demographic focus
 - ↳ breakdown the tourist distribution
 - ↳ who? (Gender? Age?)
- slide 3 - GDP story
 - ↳ analysis on tourism and GDP

TOURISM AND ECONOMIC PERFORMANCE IN MALAYSIA

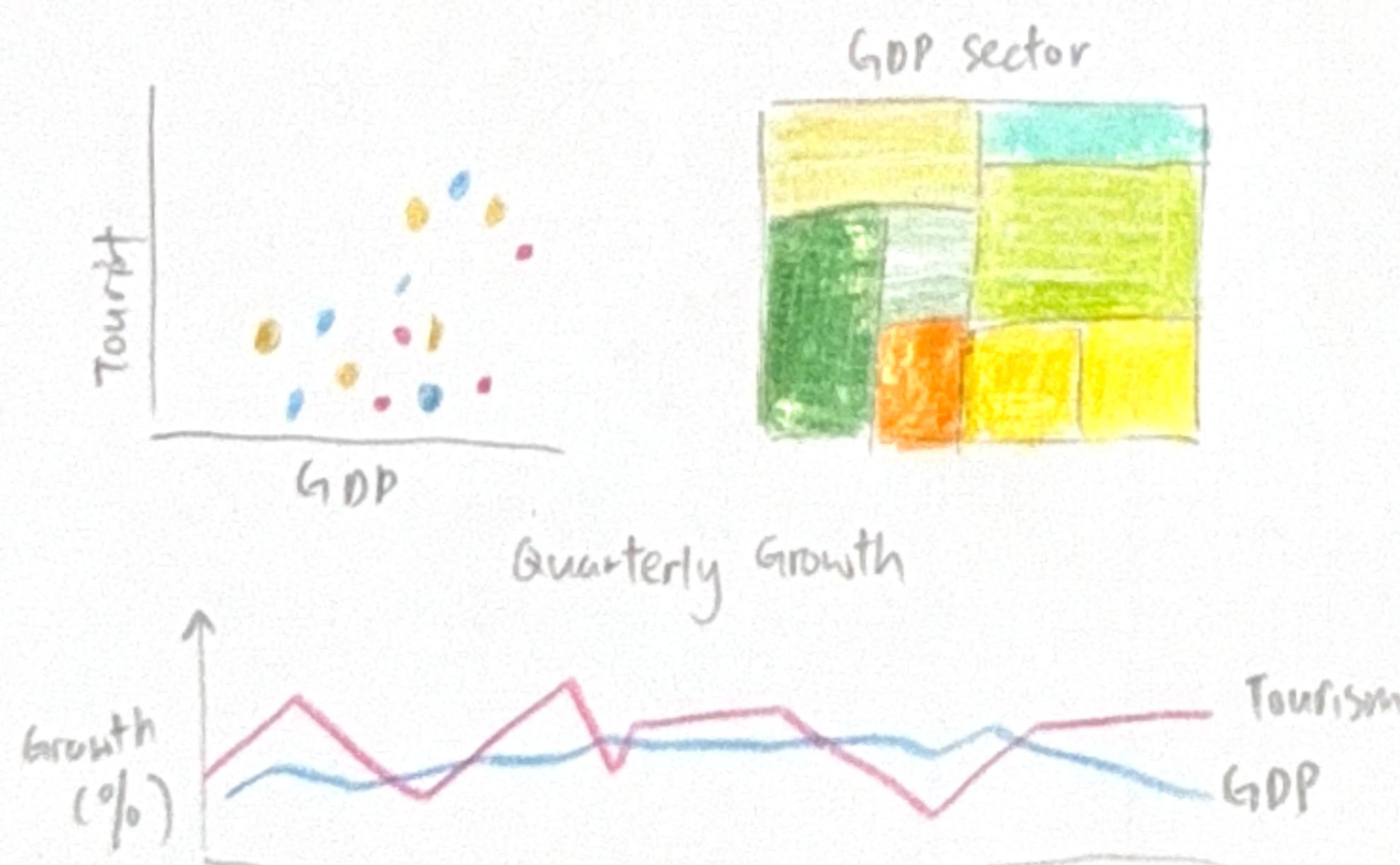
TOURIST TO MALAYSIA



WHO IS THE TOURIST?



HOW GDP relate to Tourism



Part 1 / Focus

TITLE
Where?
Who? (visits)
How? (GDP vs Tourism)

Findout Malaysia most busiest POE

- stacked bar chart to show top 5 countries with travel mode (air, sea land)

- scatterplot - show relationship
- GDP sector - treemap / stacked area
- trend story (important)

Sheet 5

Name: Ng Jing Xuan

Title : Final Concept - Webpage vertical scroll

Components / Operations

- Filter variables with sliders and dropdowns



Year



Country

- Hover over visualisation for tooltips

- Annotation on key insights

- Dynamic annotations if there is filter
(annotation based on filter selected)

Details

i) Dependencies

- use vega-lite for idioms building
- python for dataset cleaning
- HTML + CSS for frontend design

ii) Estimated Time

- Data Cleaning & preprocessing - 2 hours
- Design and All Visualisations - 10 hours
- Filter - 5 hours
- Visual Improvement - 3 hours
- Final Refinement - 4 hours

Total = 1 week