

# IDEAS

① Compare Income, Population



Choropleth map

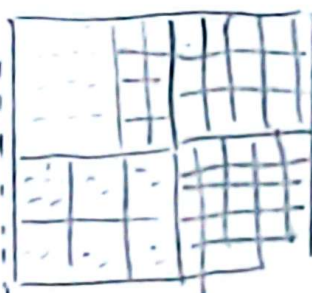


Focus on Malaysia

② Compare some economics index

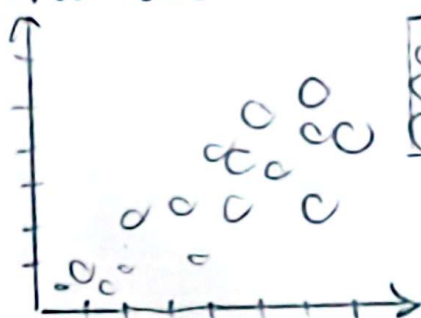


Heatmap

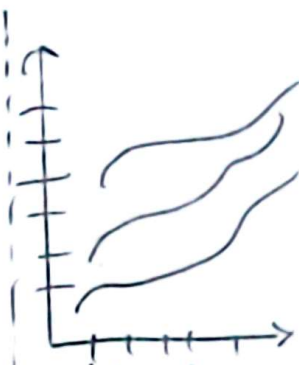
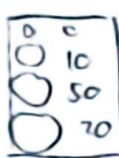


Treemap

③ Show correlation

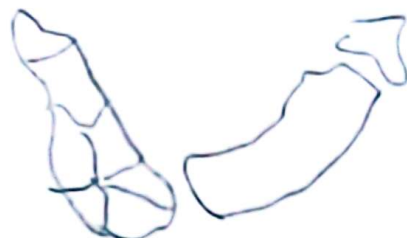


Scatterplot

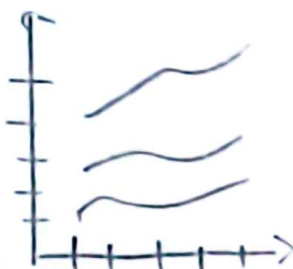


Line chart

## FILTER



✗ Don't focus on Malaysia only want the domain to be global econs



✗ Not aesthetically pleasing for the overall visualisation as will have a lot of white space

## QUESTION

- 1) What are some of the world income indicators to visualise?
- 2) What can viewers learn after looking at the visualisation?

## CATEGORIES

Focus on global economics

→ Country Income Group

→ Gini coefficient

→ Income median

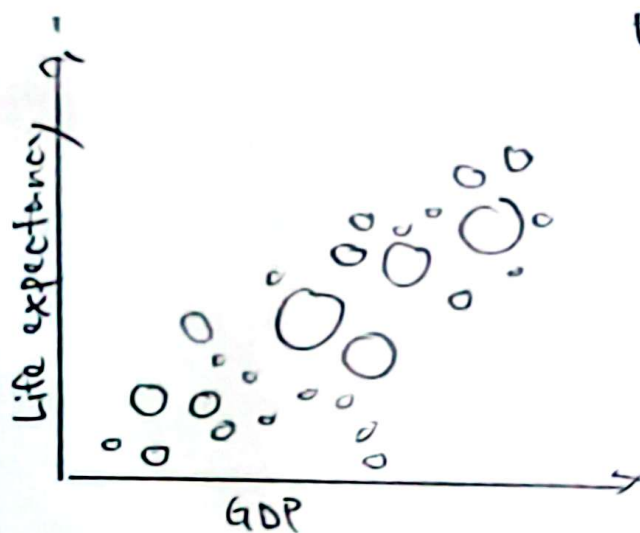
→ Human Development Index

→ Life expectancy

→ GDP

→ Population

## COMBINE & REFINE



Population  
 0 10k  
 0 25k  
 0 50k  
 0 100k

Combine 3 metrics into a bubble plot

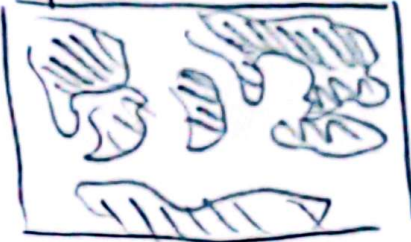


# LAYOUT

## GLOBAL ECONOMICS

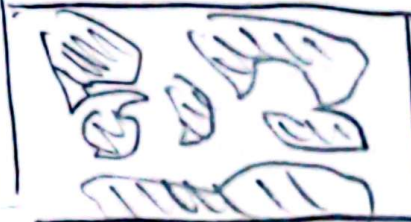
Income Group

TEXT  
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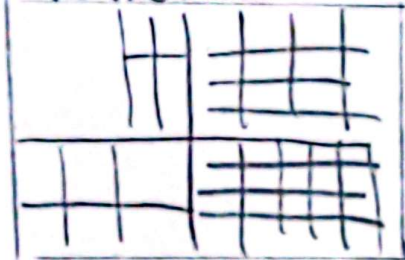


Gini Coefficient

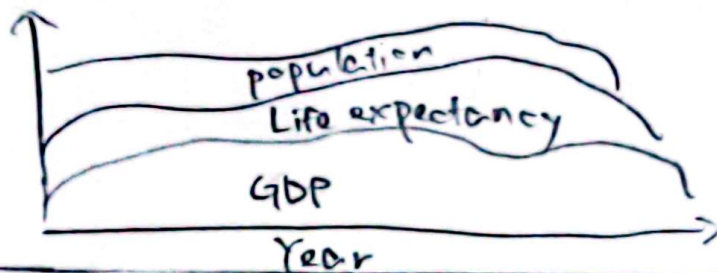
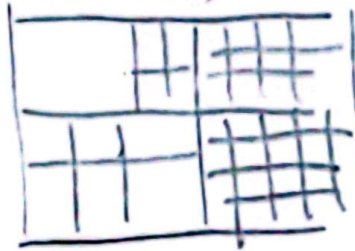
TEXT  
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Income Median



HDI Index



Title: Global Economics

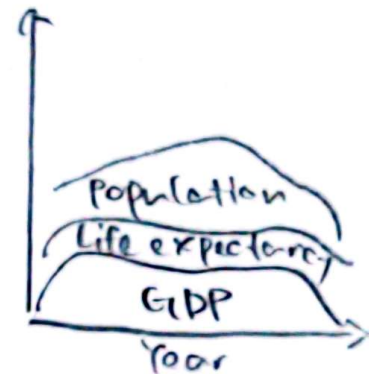
Author: Lai Khairong

Date: 13/10/2024

Sheet: 2

Task: Clean layout with narrative view

## OPERATIONS



Year: slider filter to select year



Highlight filter to highlight selected country

## FOCUS

- All the sections have equal focus
- The two maps take up large portion of the visualisation
- Each sections is about a different topic

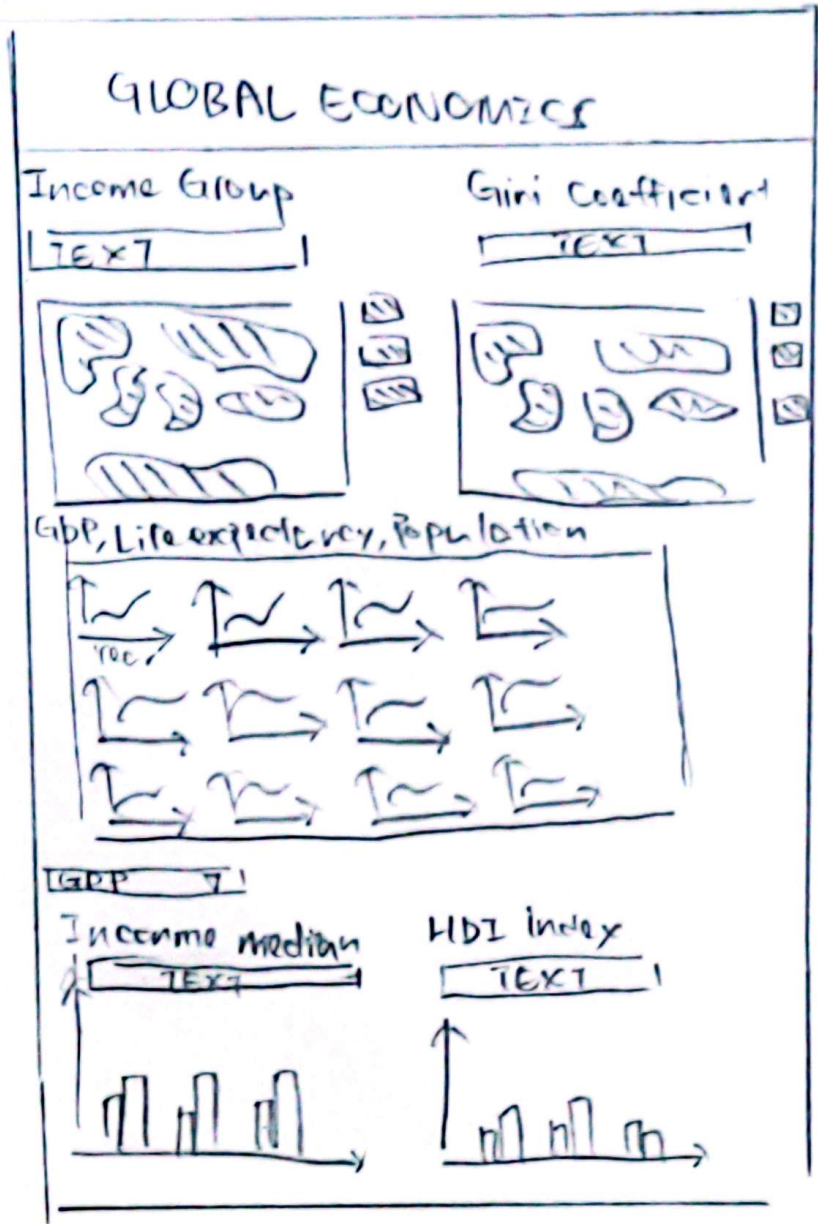
Global Econ	
Income Group	
Gini coeff	
Income Median	HDI index
Population, LE, GDP	

## DISCUSSIONS

- + Each section is well designed & easy to understand
- Shows a clear narrative that is easy to follow
- Layout could be improved as the map is taking up too much space



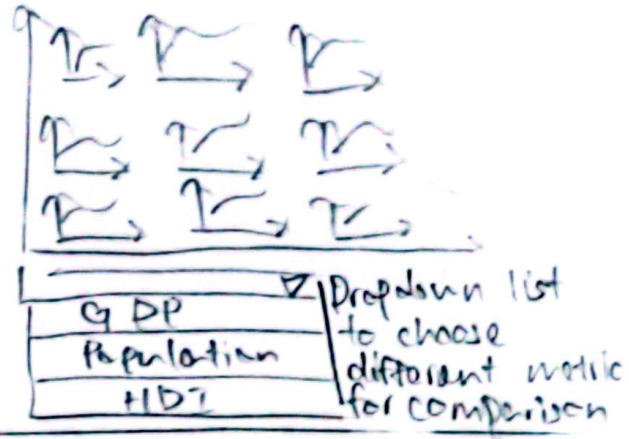
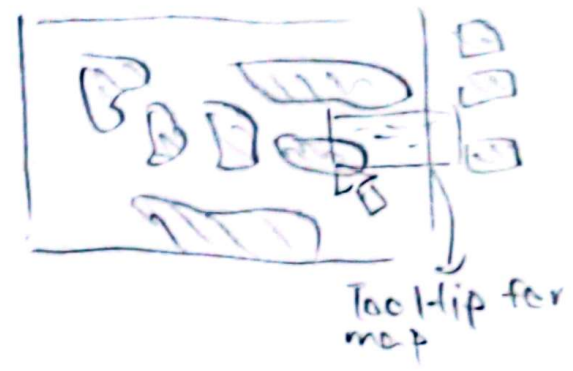
# LAYOUT



Title: Global Economics  
 Author: Lai Khairong  
 Date: 13/10/2024  
 Sheet: 3

Look: Compact layout with narrative view

## OPERATIONS



## FOCUS

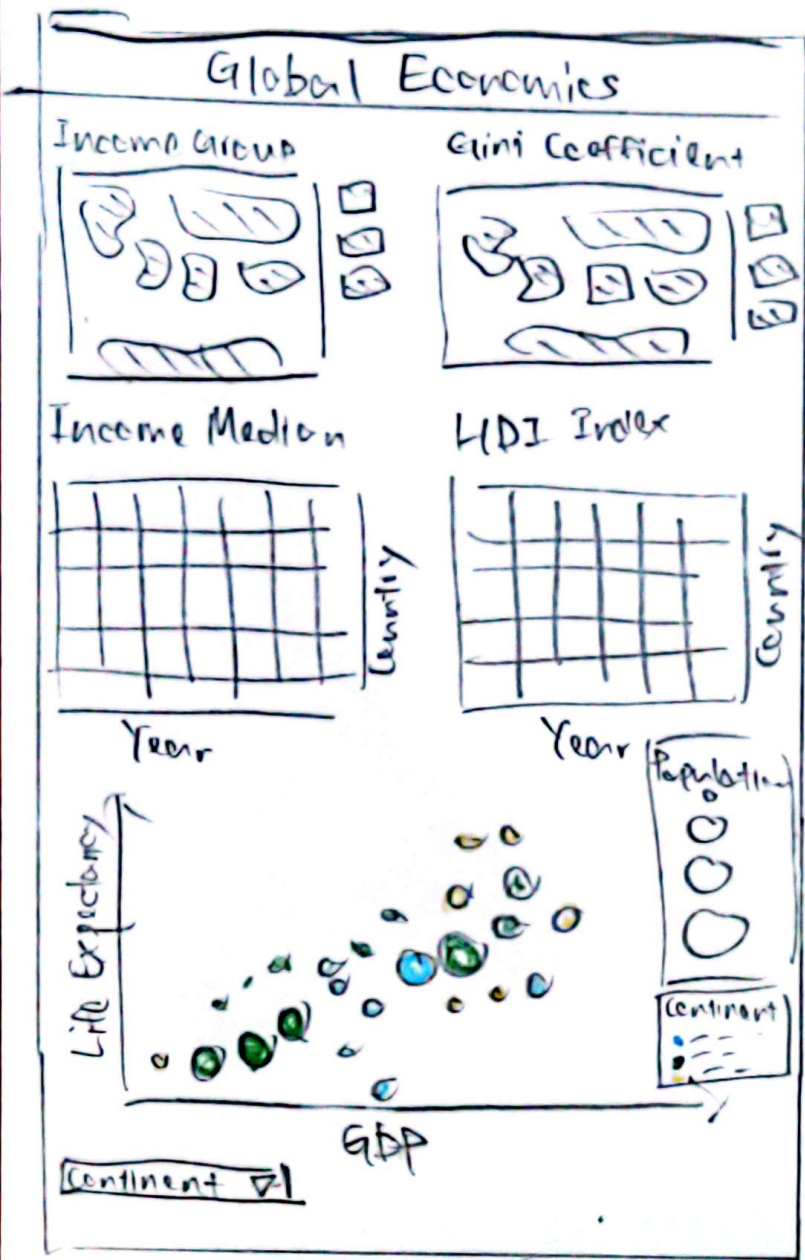
- The focus will be on the GDP, Life Expectancy, Population as it is the visual centre
- Compact Layout

Global ECONs	
Income Group	Gini
GDP, LE, Population	
Income median	HDI Index

## DISCUSSIONS

- + compact layout
- + easy to visualise
- + can show all the graphs of different years at one time (interesting design)
- too focus on the GDP, Life expectancy & Population graph, might want to reconfigure the layout

# LAYOUT



## FOCUS

- All charts are given equal focus
- Neat Layout whereby the left side is talking about income metric and the right side is an index metric

Global Econ	
Income Group	Gini Index
Income Median	HDI Index
GDP, Year, Life expectation	

Title: Global Economics  
 Author: Lai Khairang  
 Date: 13/10/2024  
 Sheet: 4  
 Task: Neat Layout

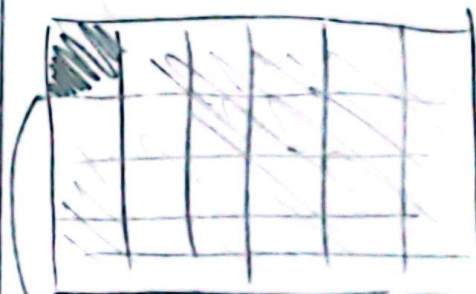
## OPERATIONS



Continent

Asia

drop down list to select different continent



can click to highlight the specific box

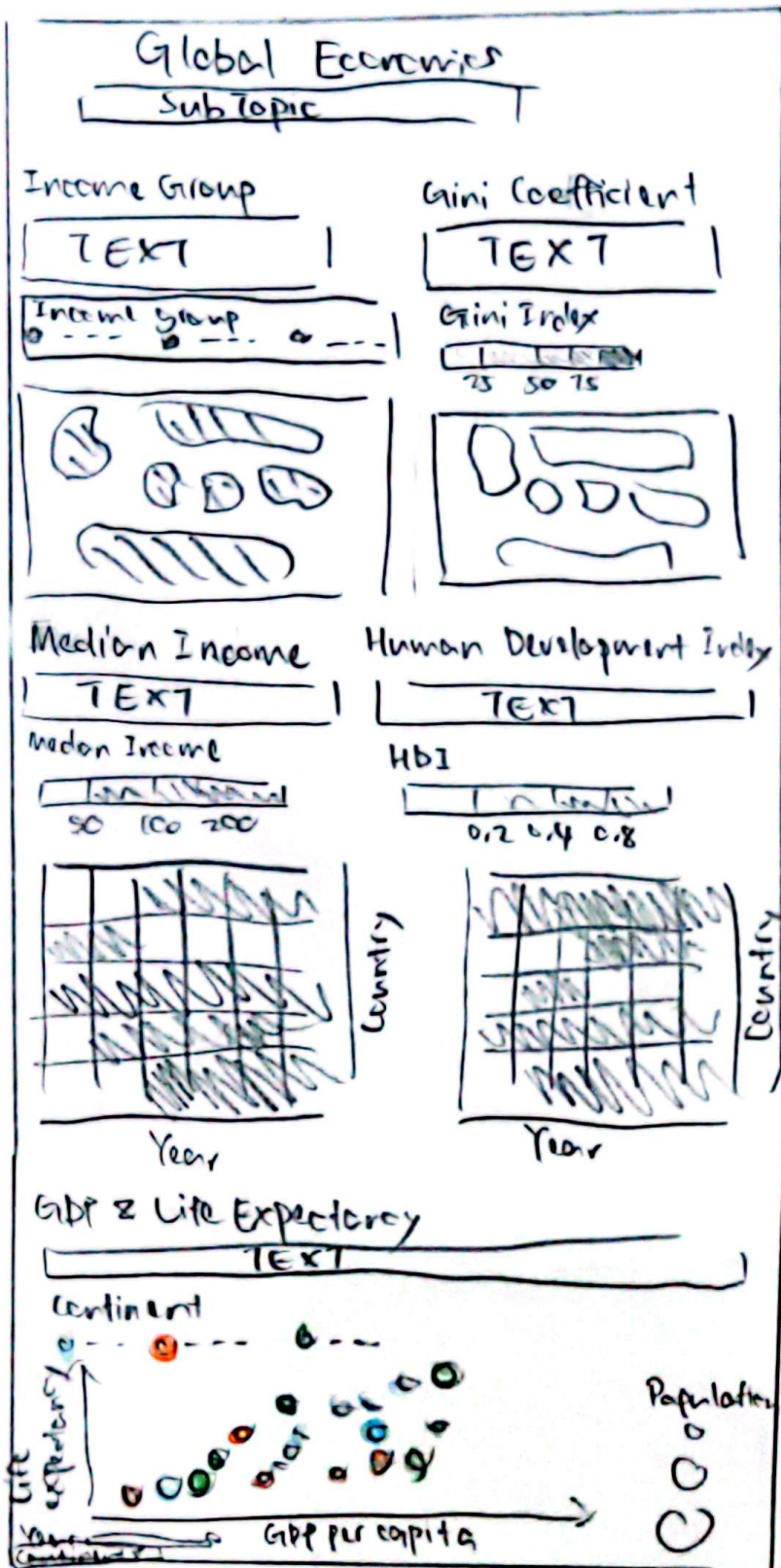
## DISCUSSION

- + Very neat and clean layout with great visual hierarchy
- Bubble plot shows correlation between GDP and Life expectancy
- Lack of descriptive text to explain about the graphs



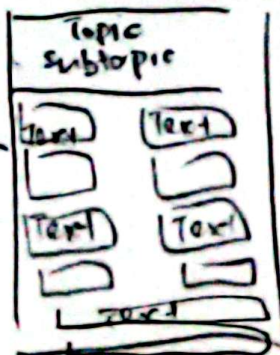
# LAYOUT

used layout 4



## FOCUS

- Layout is symmetrical and overall pleasing to the eye
- All charts are given focus and the visual hierarchy is balanced



Title: Global Economies

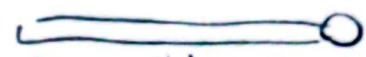
Author: Lai Khairang

Date: 13/10/2024


Sheet: 5

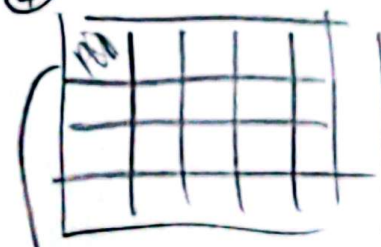
Task: Final layout design

## OPERATIONS

①  Year slider for bubble plot

②  continent selection for bubble plot

③  Formatted tooltips that show useful information

④  Can highlight the heatmap for clearer visualization

## DETAILS

Dependencies:

• VScode • CSV files

• HTML/CSS/JS (Vega)

Estimated time:

• 1 hr for each chart • 2 hrs for design & format (5 hrs in total)