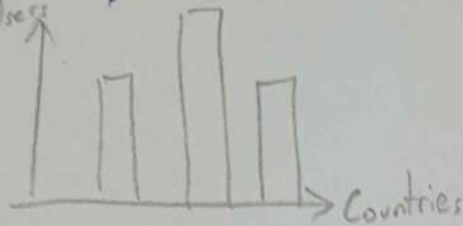


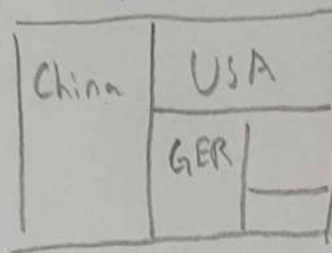
IDEAS

1. Internet Usage Comparison

Number of Usage

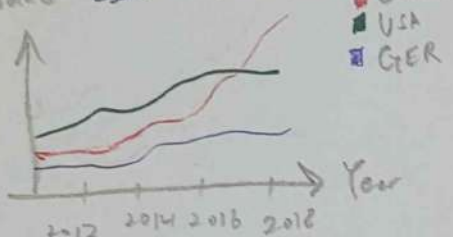


TREE MAP

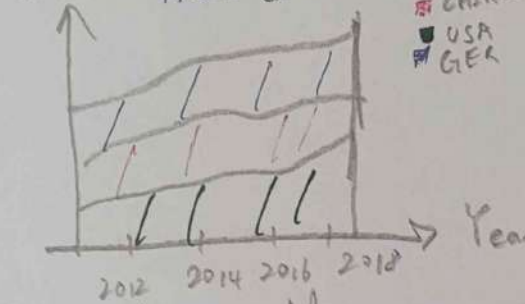


2. Temporal Comparison

B-band LINE CHART



of Broadband Penetration

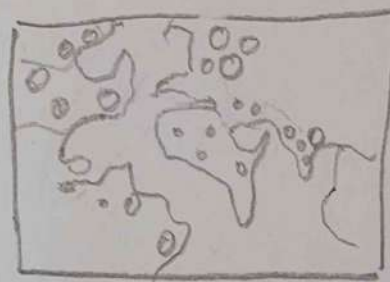


3. Mobile Subscription Across the World

Choro Choropleth Map

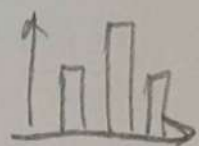


Proportional Symbols Map



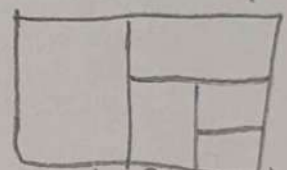
FILTER

1. Bar Chart



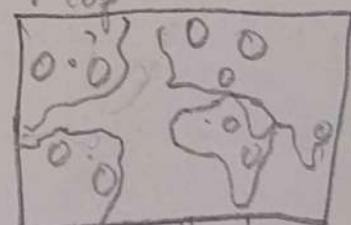
- Shows proportion in comparison
- Doesn't work well with large samples of data

2. Tree Map



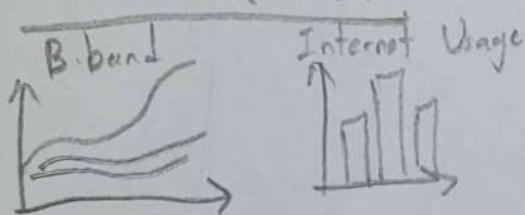
- Good for emphasising largest value
- Hard to compare between two relative similar values

3. Proportional Symbols Map



- Works well when data is in square area format
- Might be too complex with added layers

COMBINE & REFINES



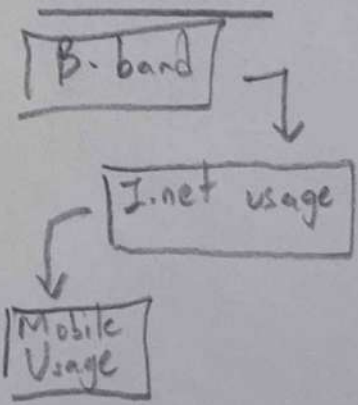
Shows Supply and Demand

People look for ease of usage, notability in mobile devices

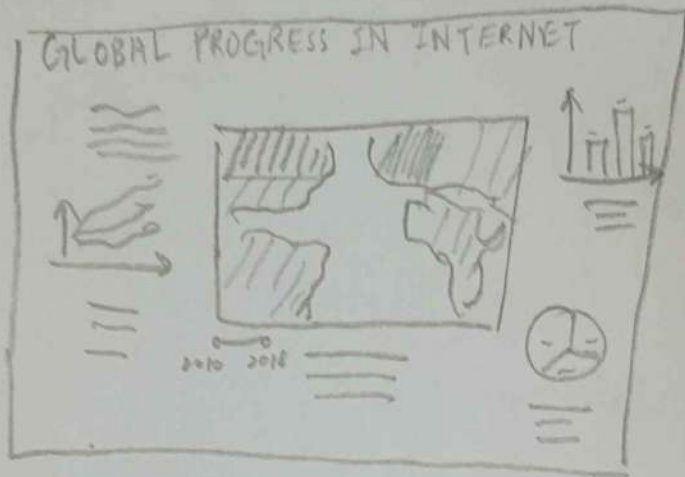
QUESTIONS

- Provide insight on world trends?
- Bring value to reader?
- Fields covered don't provide enough data?

CATEGORISE



LAYOUT



Title: Internet Access
Across the World

Author: Tay Chea Hao

Date: 6/10/2024

Sheet: 2

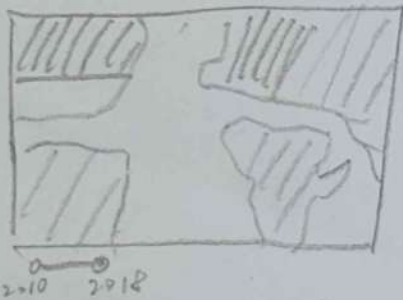
Task: Data Visualisation
2

OPERATION

- Slider below map to show progression over time
- tooltips for every graph showing year and value

FOCUS

Choropleth Map

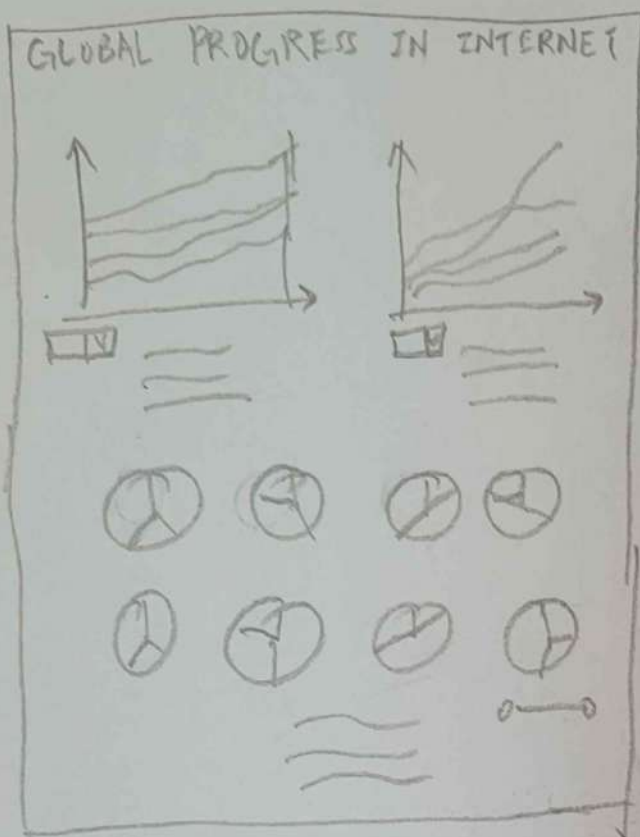


- allows viewer to identify the rate each country adopted broadband
- easily compare between regions → formulate assumptions

DISCUSSION

- Too much words?
- Too little space?
- Difficult to illustrate point?
- Too much customisability?

LAYOUT



Title:
Author: Tay Chean Hoo
Date: 6/10/2024
Sheet: 3
Task: Data Visualisation 2

OPERATION

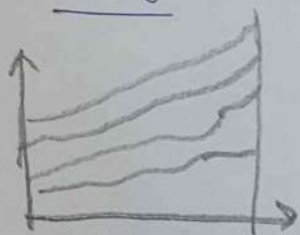
- Dropdown bar for area graph and line graph for continent
- Slider for small multiples for year

DISCUSSION

- Too much interaction?
- Area graph + line graph side by side combination is too mundane/similar
- Small multiples too numerous, hard to focus?

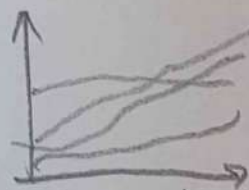
FOCUS

Area graph



- shows growth in proportion as time passes

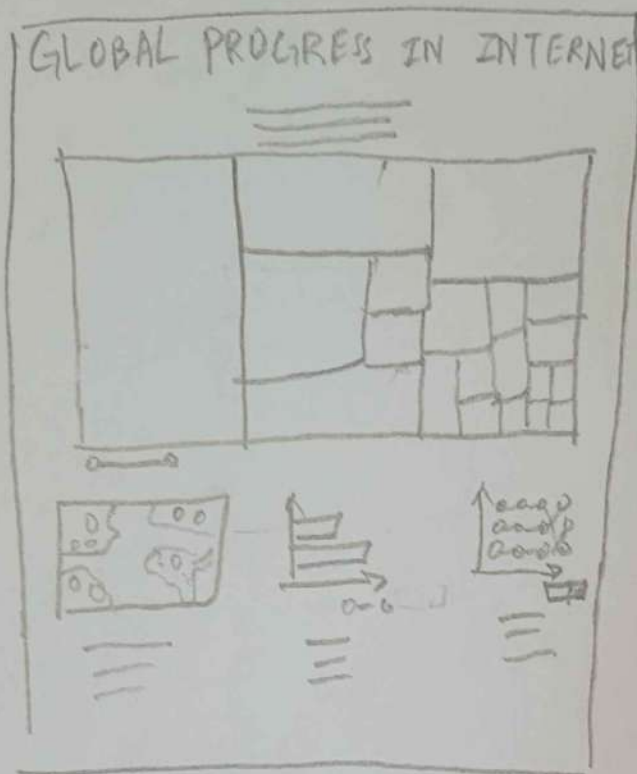
Line graph



- shows how certain countries overtake others

- easy and simple comparison between both datasets when put side by side

LAYOUT



Title:
Author: Toy Chean Hao
Date: 6/10/2024
Sheet: 4
Task: Data Visualisation 2

OPERATION

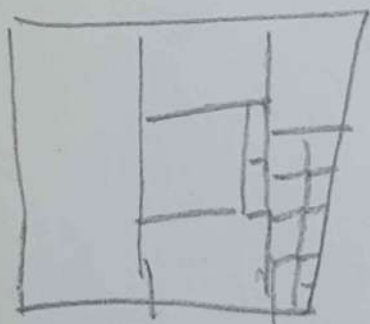
- Slider below map and bar chart to show different years
- Dropdown bar below bump chart to show country in different continents

DISCUSSION

- Tree map too big and overwhelming?
- Constantly changing tree map too taxing on user's eyes?
- Not big enough map user has to squint/zoom

FOCUS

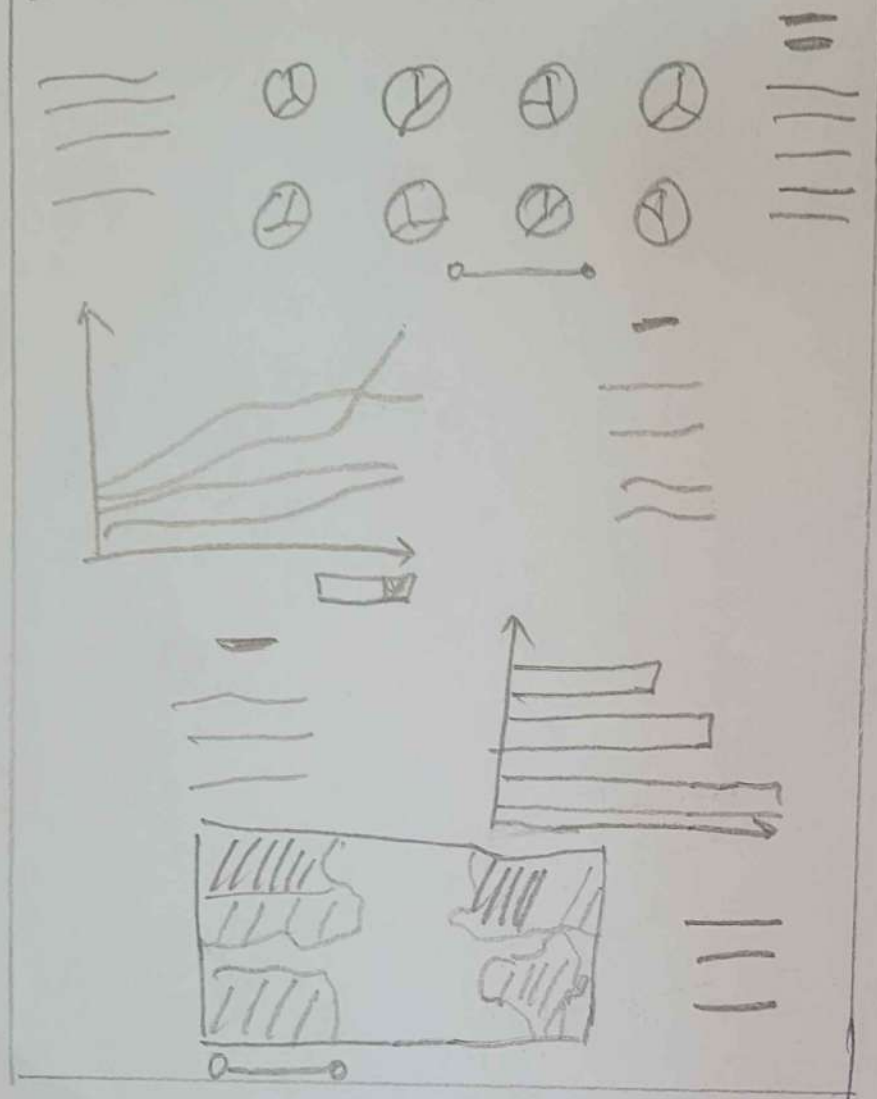
TREE MAP



- Emphasizes leading country
- Showcases top 10 values, possibly reducing cognitive load

LAYOUT

INTERNET ACROSS THE WORLD



FOCUS

SMALL MULTIPLES



- Compare ratio of each country
- Identify progression of internet usage across country without bias

Title: Internet Across the World

Author: Tay Chen Hao

Date: 6/10/2024

Sheet: 5

Task: Data Visualisation 2

OPERATION

- Slider for small multiples and choropleth map to show years
- Dropdown for line graph to select continents

DISCUSSION

- Charts are far apart difficult to see them in the same screen, hard to identify pattern
- Too much white space
- Estimated time needed to complete: 4 hours.