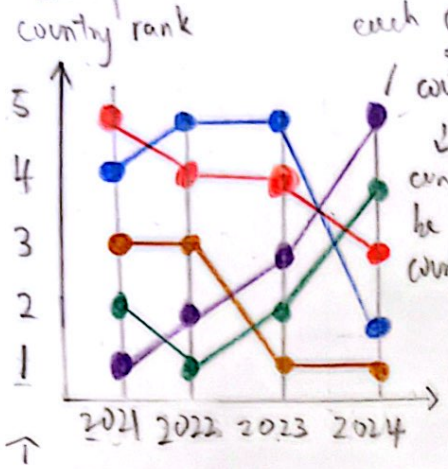
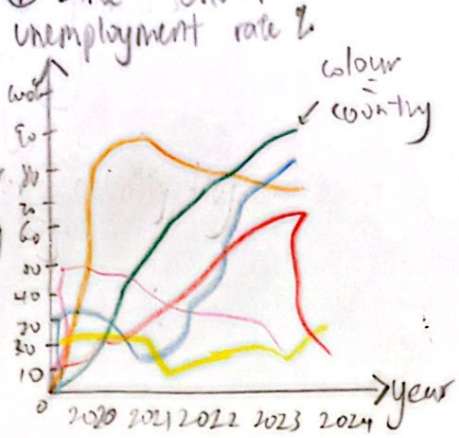
IDEAS

① Bump Chart



④ Line Chart

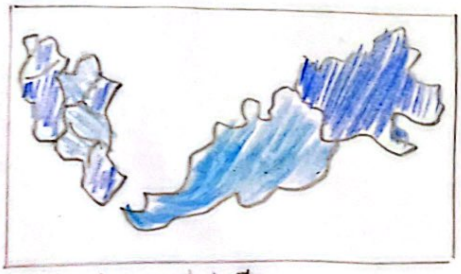


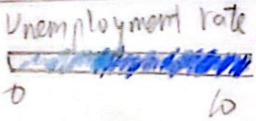
② Chloropleth map

⑤ Radial Chart

⑥ Donut Chart

③ Malaysia Cartogram

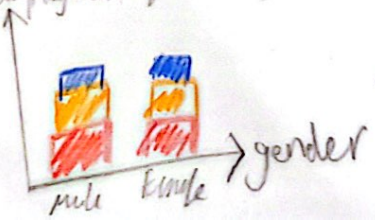




⑦ Flex packed bubble chart

Bubble = state in malaysia
size = unemployment rate
colour = importance threshold

③ Stacked bar chart unemployment %



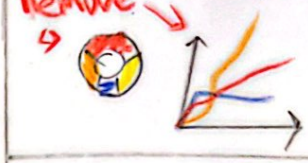
← size of segment = unemployment

FILTER

① > ④
③ > ⑥

Both pairs serve the same purpose, remove ④ and ⑥ because ① and ③ more visually appealing

Remove



CATEGORIES

I Trends
- ⑤ Radial Bar
- ③ Stacked bar
- ① Bump Chart

II Demographic
- ② Chloropleth map
- ③ Cartogram

QUESTION

→ Highest unemployment rate in Year 2XXX?
→ Male or Female higher unemployment rate?
→ County 'X' unemployment performance over the years
→ Highest unemployment rate state malaysia 2023

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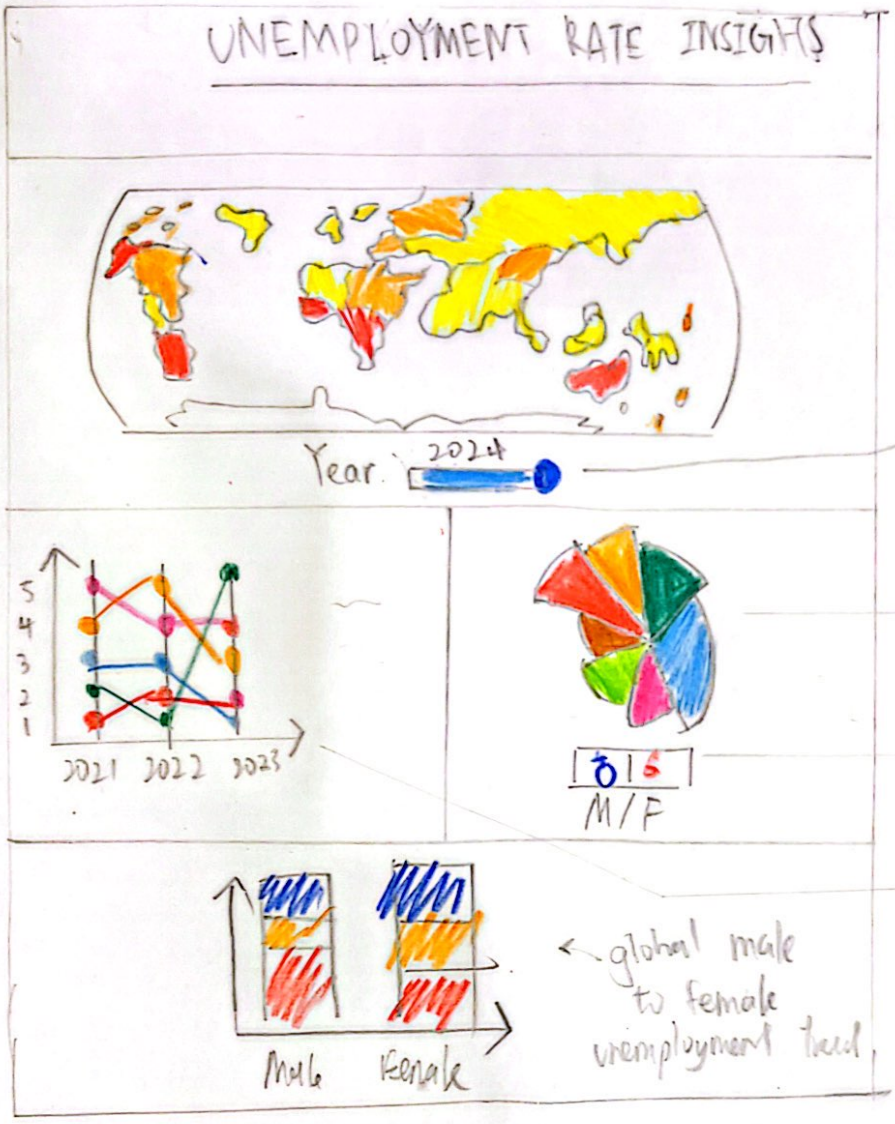
LAYOUT

Author: Dominic Jia Yi Lee

Date: 18/10/2024

Sheet 2

Task: Global unemployment trend



OPERATION

→ Chloropleth Map
- → Year slider to show distribution of unemployment rates over the years
- → tooltip showing exact percentage (%)

→ Radial Bar Chart
- → Able to select between male & female unemployment %
- → tooltip with unemployment %

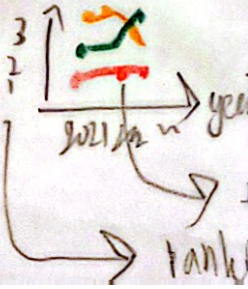
→ Bump Chart
- → Selecting a country (colour) will highlight the line selected

FOCUS

More on global unemployment trends

→ Darker the colour = Higher unemployment rate (%)

→ Size of each segment = unemployment rate (%)



→ Shows top 3 countries unemployment rate trends

→ each colour represents a county

→ ranking of unemployment rate

DISCUSSION

Pros

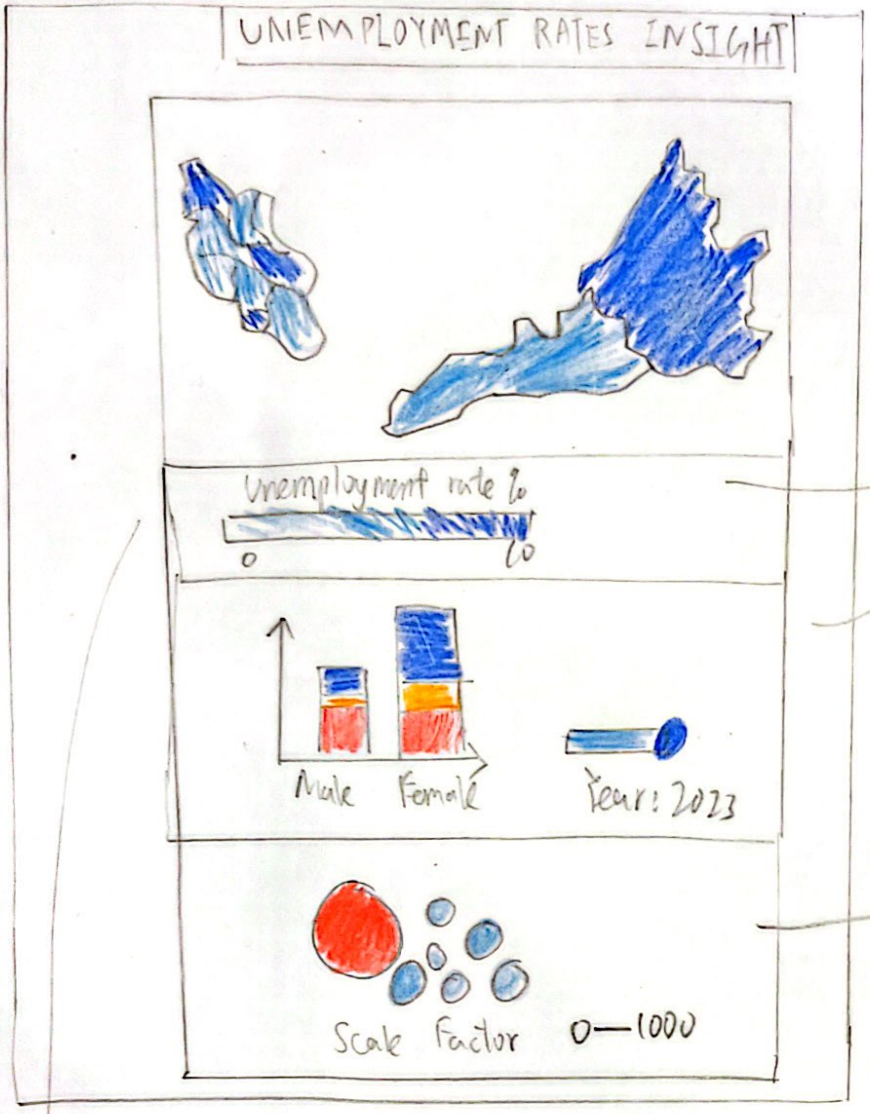
- Shows time series representation, can show how unemployment has evolved, allowing for analysis
- Top county insights, able to see how long a country remains in top 5 or grow when it is excluded

Cons

→ Lack of regional comparisons, many limited granularity for comparison, not useful for some audiences

Author: Dominic Jia Yi Lee
Date: 10/10/2024
Sheet 3
Task: Focused unemployment rate

LAYOUT

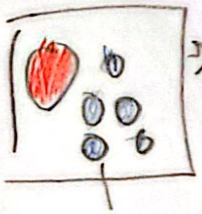


OPERATION

- Malaysia cartogram
  - Tooltip showing unemployment rate
- Stacked bar chart
  - year slider to show trend
  - each segment represents an age demographic
- Packed bubble chart
  - size factor to show zoom rate of bubbles to show differing sizes

FOCUS

All graphs have been changed to cater to focus on Malaysia's demographic



- Each bubble represents a state in malaysia

Tooltip
- unemployment rate %
- Labour participation rate %
- Population available to work age

DISCUSSION

Pros
- Focused regional activity allows for a more detailed insight into the county
- Simplified scope

Cons
- No international comparison, limiting insights

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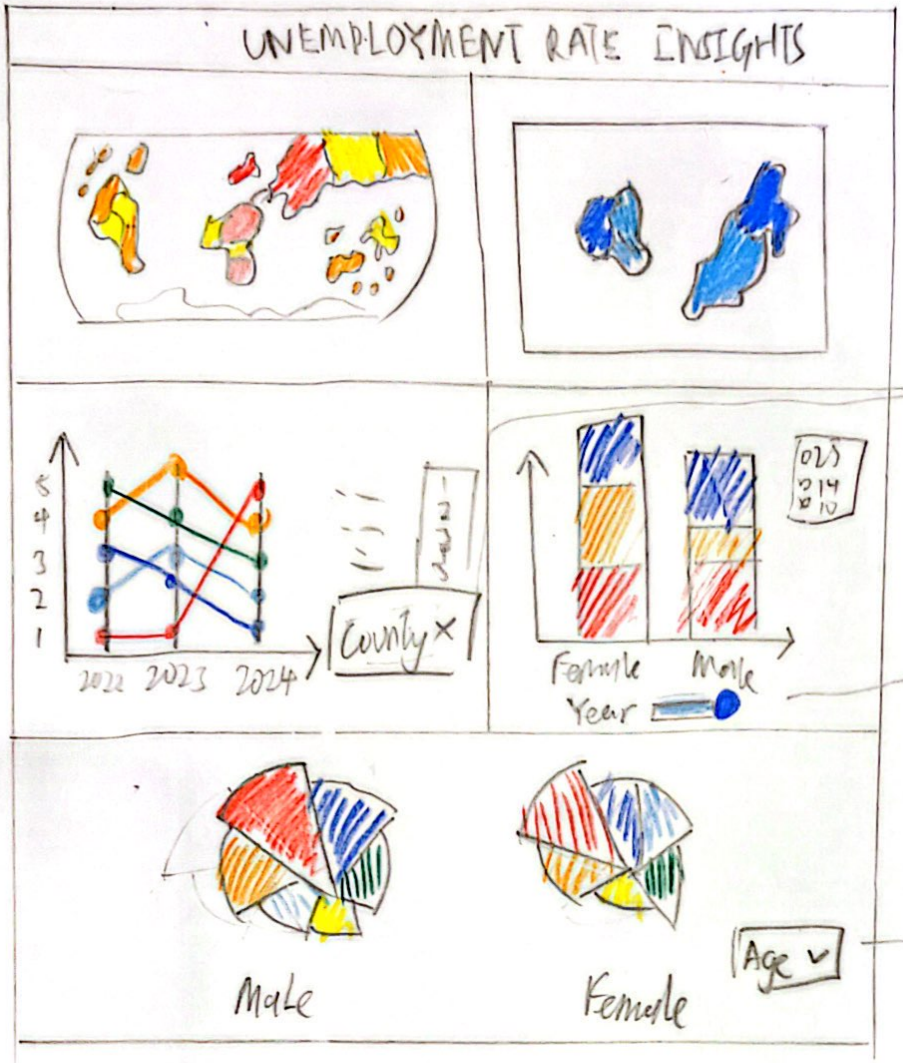
Author: Dominic Jia Yi Lee
Date: 10/10/2024
Sheet 4
Task: Unemployment relation gend

LAYOUT



OPERATION

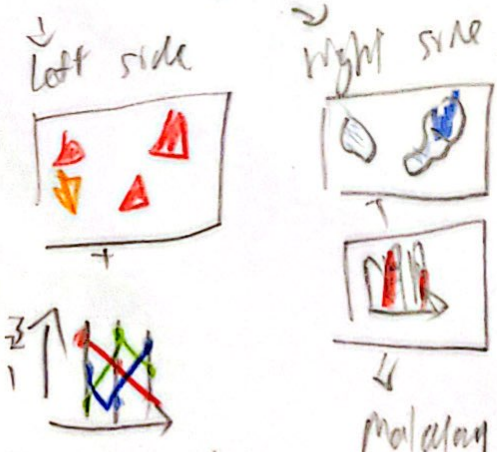
→ Bump Chart
→ Now allows for a wider selection of countries to choose to rank

Stacked Bar Chart
→ Show year trend for both male/female unemployment rate,

→ Radial Bar Chart
→ Both genders, age demograph dropdown bar

FOCUS

More on gender relation to unemployment rate



→ allows to see state-level unemployment
→ gender + time based analysis

1) Bump Chart and Chloropleth = global

DISCUSSION

Pros
→ Balanced focus on global and malaysia unemployment
→ Able to make better insights via operations

Cons
- visuals may be redundant
- unclear segmentation for audience, could be too broad

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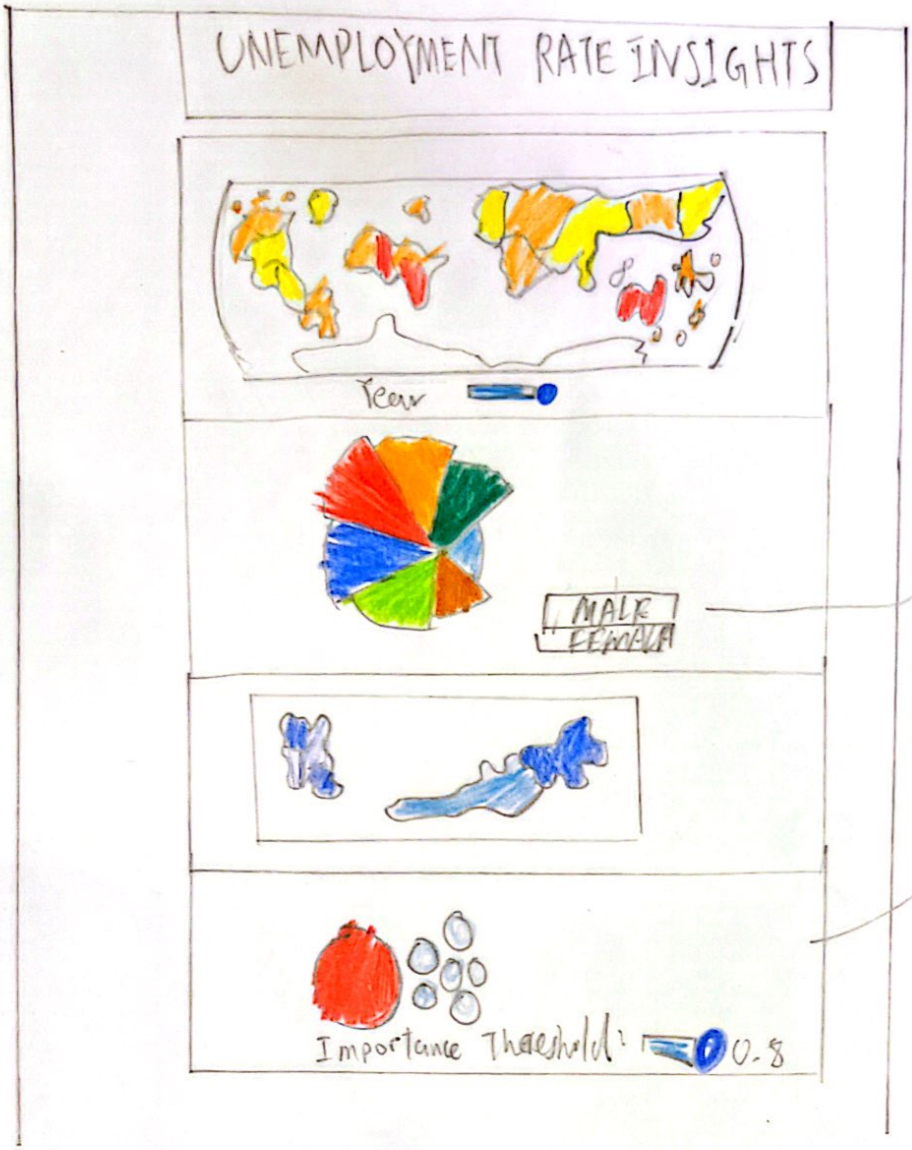
LAYOUT

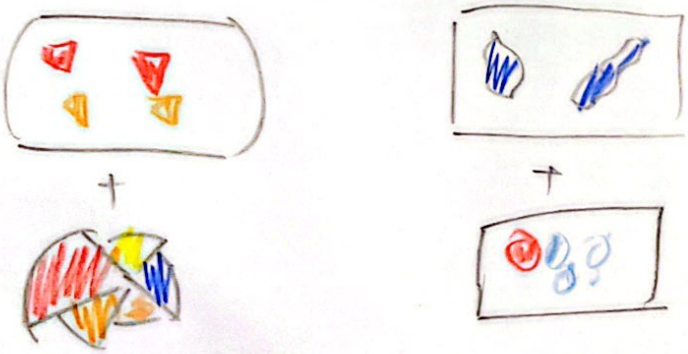


Author: Dominic Jia Yi Lee
Date: 10/10/2024
Sheet 5
Task: Unemployment % comparison

OPERATION

- Radial Bar Chart
  - → Male/Female selection
  - → tooltip showing unemployment rate
  - → segment = country
- Packed bubble chart
  - → Changed to importance threshold, highest unemployment rate ≈ 8%, changes colour to red if unemployment rate is above threshold

FOCUS → Comparisons



Radial + choropleth
↳ Global focus
↳ Allows for viewer to make compared analysis via comparing both charts

Cartogram + bubble
↳ Malaysia focus

DISCUSSION

Pros
- → More balanced perspective allows for broader understanding
- → More diverse idioms for visual hierarchy

Cons
- → Maybe a bit hard to distinguish, due to the only way to tell if global/Malaysia is title