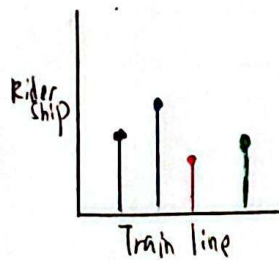
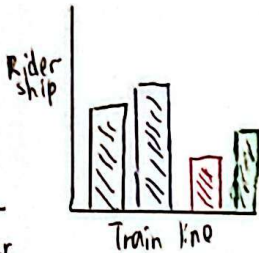
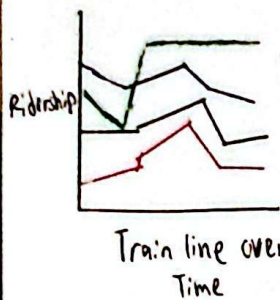


IDEAS

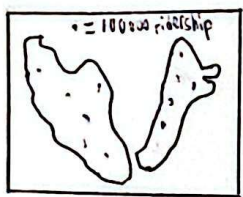
Ridership (Overall)

- ① Line Chart
- ② Bar Chart
- ③ Lollipop Chart

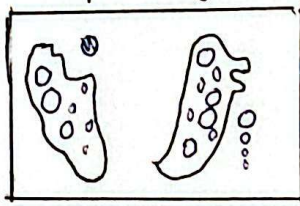


Station Map

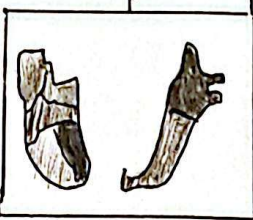
- ① Dot Map



- ② Proportional symbol map

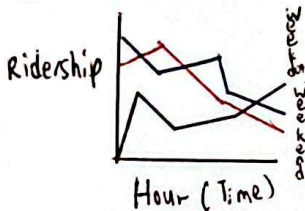


- ③ Choropleth map



Weekday v.s. Weekend (ridership)

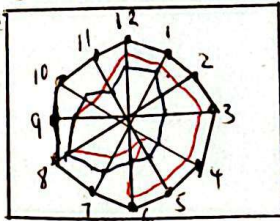
- ① Line Chart



- ② Heatmap



- ③ Radar Chart



Author: Soh Chee Sheng

Date: 19/09/2025

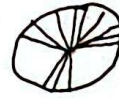
Sheet: 1

Task: Planning Visualisations

FILTER

Ridership

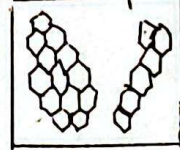
- ④ Pie chart X (1 slice = ridership per percentage year)



→ Hard to compare sizes when values are close
→ Doesn't make sense with time

Station Map

- ④ Bin map X



→ 1 bin could contain multiple stations
→ Doesn't show train lines

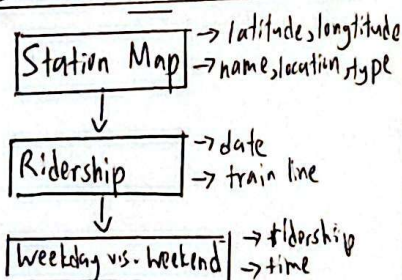
Weekday v.s. Weekend

- ④ Stacked area chart X



→ Creates meaningless total (weekday + weekend)
→ Disrupts weekend pattern

CATEGORISE



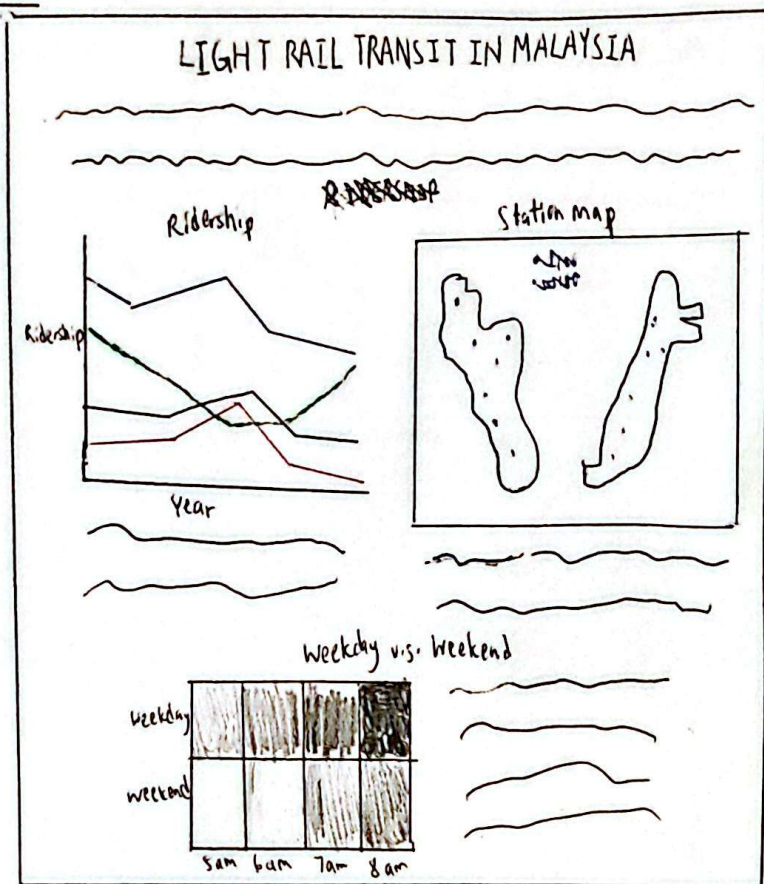
COMBINE & REFINED

- Could combine Station Map ③ with Weekday v.s. Weekend ②
→ After clicking symbol on map, show heatmap (for specific station)
- Could combine Ridership ① with ② (and station map ③)
→ Line chart shows entire timeline
→ Bar chart and map show specific timeline

QUESTIONS

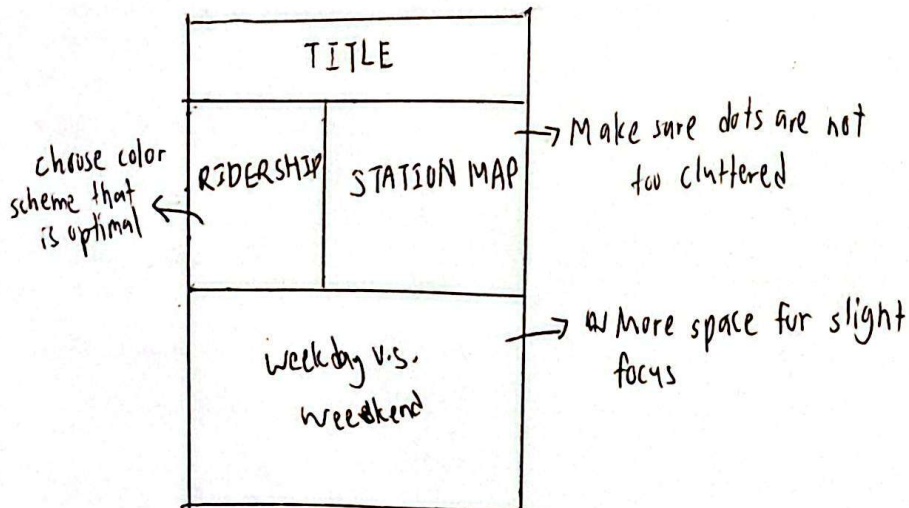
- Will the visualisation tell the right story? (show hotspots or carry bias?)
→ need log scale
- ~~What data~~ Will there be enough data to tell the story? (only relying on ridership?)
- How to show connected lines between stations?

LAYOUT



FOCUS

- No main focus, slight focus on weekday v.s. weekend



Title: Partitioned Poster

Author: Soh Chee Sheng

Date: 21/09/2025

Sheet: 2

Task: Design an infographic poster

OPERATIONS

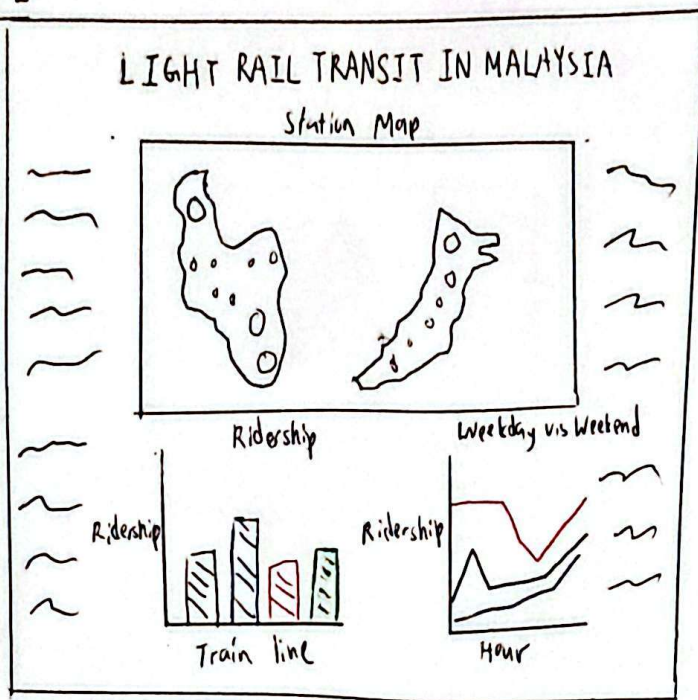
- Add annotations on the chart to highlight features
- Could add legend to filter stations for all charts
- Consider allow zooming in/out map

DISCUSSION

- Pros:
- 1) Sufficient space for explanation text
 - 2) Good separation between sections
 - 3) Easy to implement user interactions

- Cons:
- 1) No main focus, sections may look disjointed
 - 2) Stations are 'fixed' in place; dots may clutter at one place
 - 3) Requires good explanations for storytelling

LAYOUT



little magazine s.g.

Author: Soh Chee Sheng

Date: 21/09/2025

Sheet: 3

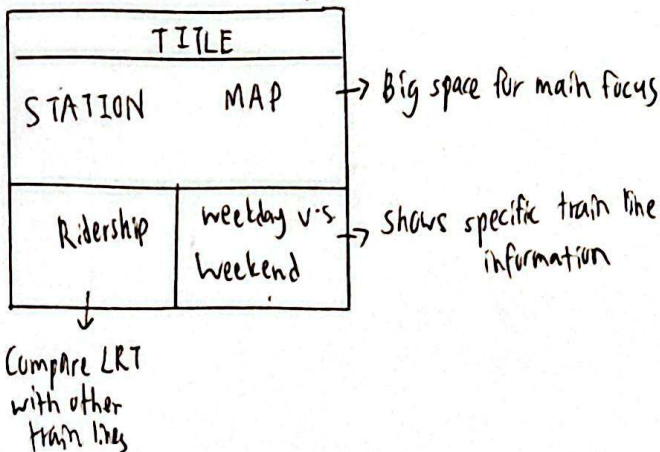
Task: Design an infographic poster

OPERATIONS

- Consider allow zooming in/out map
- Filter station/train line by color
→ Buttons / drop down
- Add annotations on line chart and bar chart to highlight features
- Hover interactions should display:
Map: Station Name:
City:
Latitude:
Longitude:
Others: Train Line:
Ridership
Type:

FOCUS

- Main focus on station map



DISCUSSION

Pros: 1) Has main focus, better storytelling

2) Well-structured

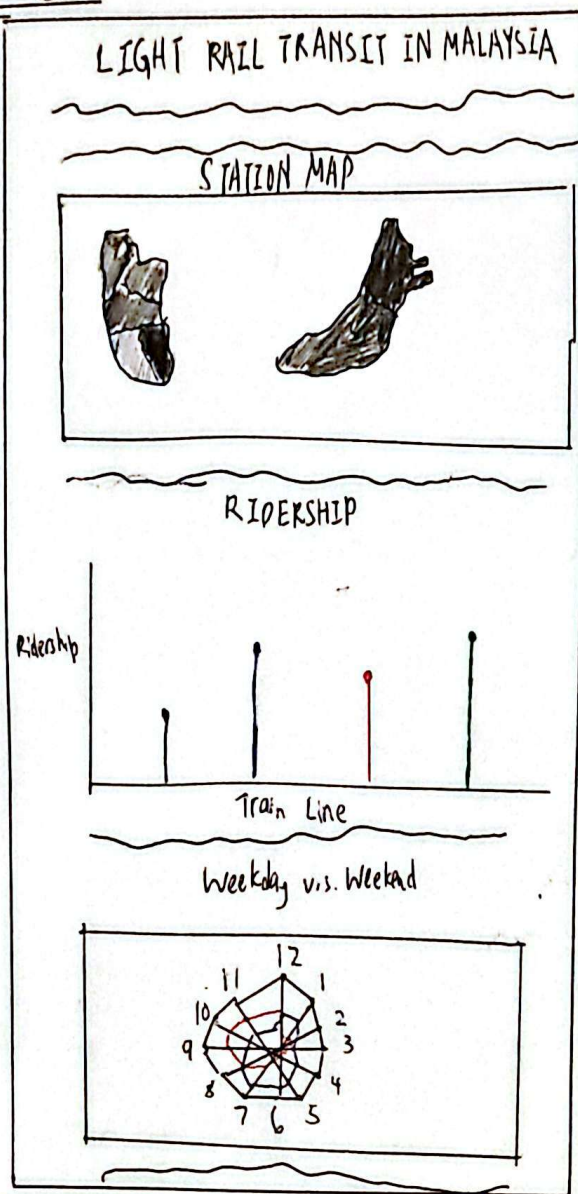
3) Aesthetically appealing

Cons: 1) Limited space

2) May be difficult to link information between Ridership's bar chart and Weekday v's. weekend's line chart

3) Too much text may be boring to audience

LAYOUT



Title: Partitioned Poster # 2

Author: Soh Chee Sheng

Date: 22/09/2025

Sheet: 4

Task: Design an infographic poster

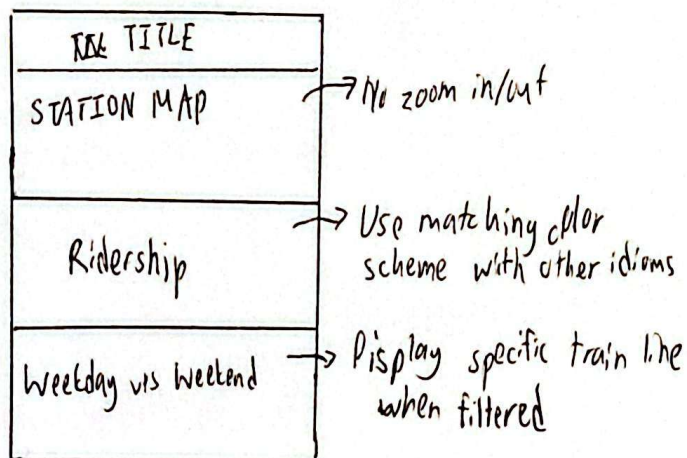
~~EXPLANATION~~

OPERATIONS

- Corresponding legends to filter train lines (LRT, MRT, etc)
 - Button/dropdown
- Annotations on map and lollipop chart when necessary
 - Static map, no zoom in/out
- Tooltips
 - Map: station Name, City, Latitude, Longitude
 - others: Train Line, Ridership, Type
- Radar chart to display specific train line only

FOCUS

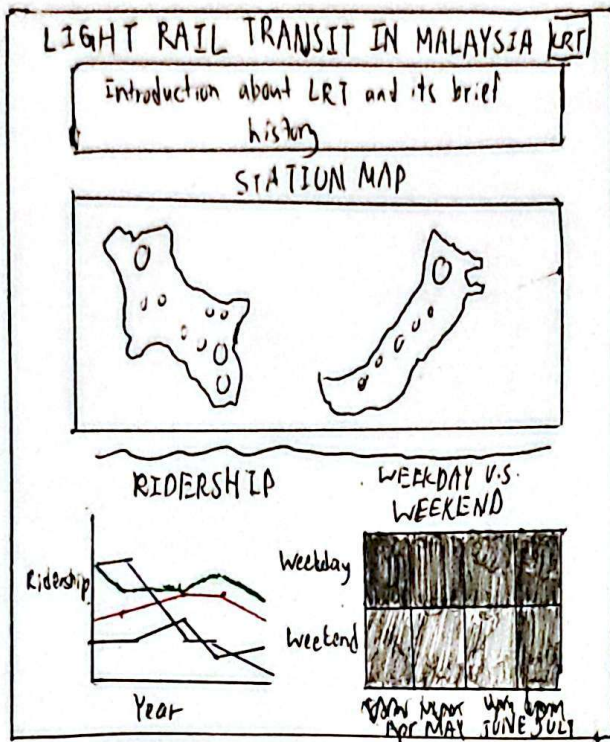
- All sections are equally focused



DISCUSSION

- Pros:
- 1) All sections are focused
 - well-defined story
 - 2) Equal space for each section
 - can use all kinds of visualisations
 - 3) simple and has user interaction
- Cons:
- 1) Might be too simple in design
 - 2) Needs to be well-separated (sight lines, white space)
 - 3) Needs time to think what train lines to filter

LAYOUT



Title: Final Design sheet
Author: Soh Chee Sheng
Date: 23/09/2025
Sheet: 5
Task: Design the final design layout

OPERATIONS

- Size legend for map
→ bigger shape: higher ridership
- Can zoom in/out of map
- When stations are filtered (through map or legend), display them on line chart and heat map
- Colour-coded filter bar (grouped by states)
- Tooltips
→ Map: Station Name, City, State, Latitude, Longitude
→ Others: Train Line, Ridership, Type
- Annotations
→ Add on line chart (and map) where appropriate

FOCUS

- ~~At~~ Station map is main focus
→ To show the train lines and how LRT compares with other train lines
- Line chart shows ridership of different train lines (LRT, MRT, KTM)
- Heatmap adapts to user selection/filter
→ shows ridership of specific train lines based on filter
- Both charts to support station map

id

DETAILS

- CSV files from Kaggle and data.gov.my
- Dependencies: CSS, Vega-Lite, ~~Python~~ R, HTML
- Estimates of time to build: 1 day for research and data cleaning + 1 day for station map + 1 day for line chart and heat map + 1 day for improvements, final checking and submissions
- Specific requirements:
 - 1) Scrollable visualization
 - 2) Zoomable station map
 - 3) Colours that ease eyes