

Sheet 1 - Brainstorm

Ideas



Filter

- ② Box Plot - ratings only range from 1-5, limited variability and statistically uninteresting.
- ④ Scatter Plot - dataset does not have continuous variables that are suitable for correlation analysis.

⑧ Heat Map - dataset does not contain enough categorical relationships for heatmap.

⑨ Packed Bubble chart: vegurite does not support this visualisation.

Categorise

Comparative: ①, ⑩

Compositional: ④

Temporal: ⑤

Geographical: ⑥

Multivariable: ③

Combination and refinement

- ① and ⑤ can be combined to form a dual axis chart for the audience to see trends.
- ③ can be refined by adding arcs to make a radial chart so that the audience can focus on certain segments more.
- ④ can be used to see the distribution among different variables.

- ⑥ introduces geographical distribution.

- ⑩ can be refined by highlighting important findings

Questions

1. Does this chart align with the key message?
2. Is the visualisation easily interpretable for a general audience?
3. Does it usually complement other charts?
4. Can it be implemented effectively in Vegurite?
5. Does it fit the dashboard's design language?

Author: Jia Wenn

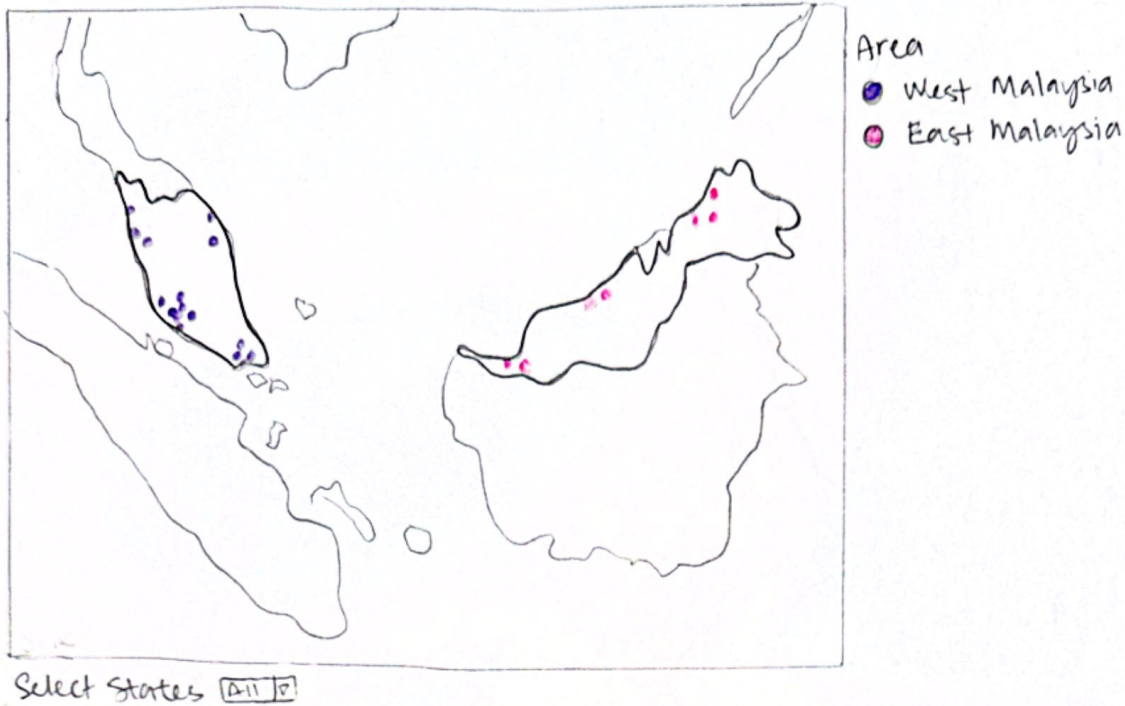
Student ID: 34116109

Date: 18/10/2025

Sheet: 1

Task: Brainstorming

Layout



Operation

- dropdown filter : choose all states or specific state to highlight points.
- hover : tooltip displays business name, locality, region, and area.

Focus

- illustrate geographical spread and concentration of Malaysia's F&B businesses.
- highlight how certain regions form visible clusters.

Discussion:

Advantages.

- immediately highlights regional clusters of economic activity.
- supports user interactions via filters and hover details.
- communicates spatial distribution

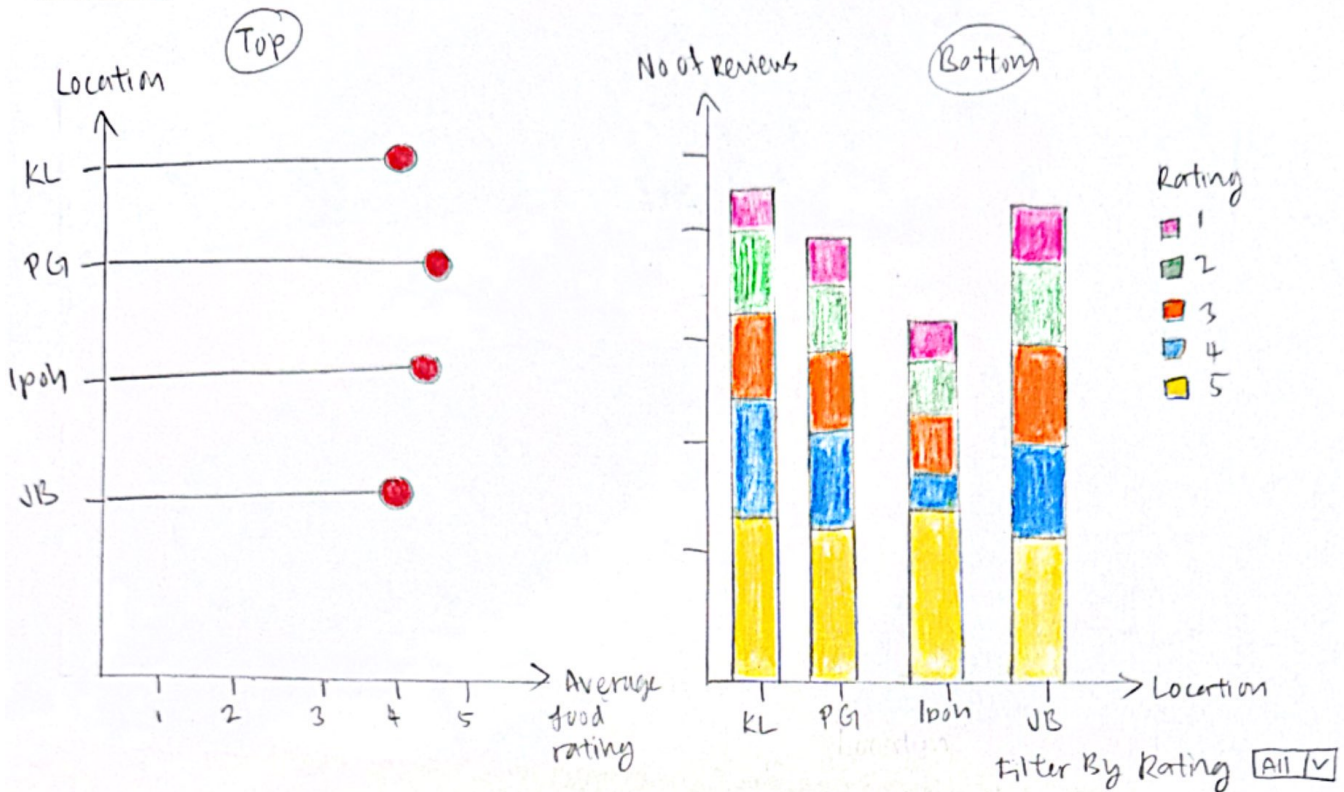
Disadvantages.

- dense areas may overlap, obscuring data points.
- difficult to perceive exact quantities from map alone

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Date: 18/10/2025
Sheet: 2
Task: Dot Map.

Sheet 3 - Alternative Design Sheet 2

Layout



Operation

- dropdown filter: select rating level (All, 5.0, 4.0, 3.0, 2.0, 1.0)
- hover: tooltip for stacked bar chart (location, rating, number of reviews)
tooltip for lollipop chart (location, average rating, review count)
- legend: isolate rating bands

Focus

- allow audience to compare quality and quantity of reviews per location
- shows how different regions score and how review activity varies.

Discussion

Advantages

- combines composition and ranking
- visually balanced and readable
- encourages interactive exploration via filters.

Disadvantages:

- two charts require more vertical space on screen.
- cannot represent geographical context directly

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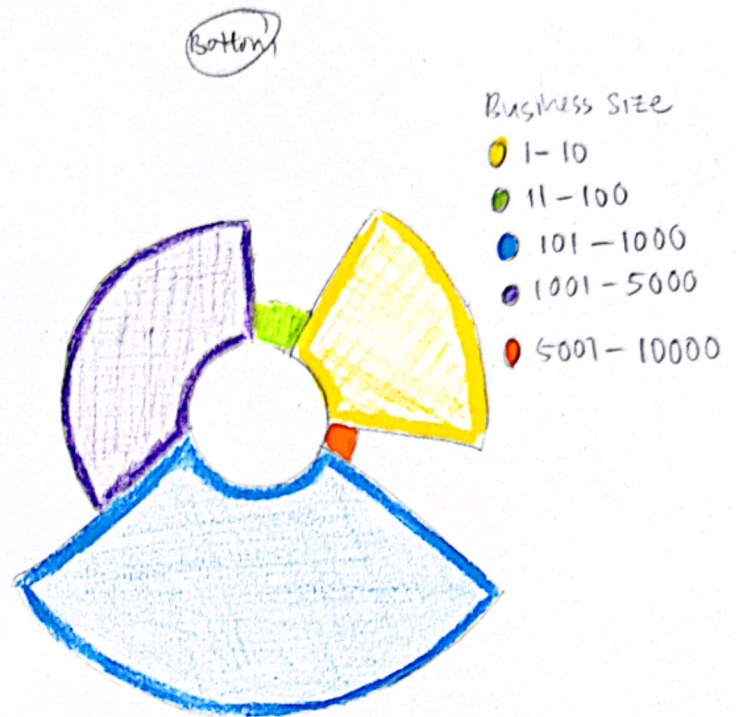
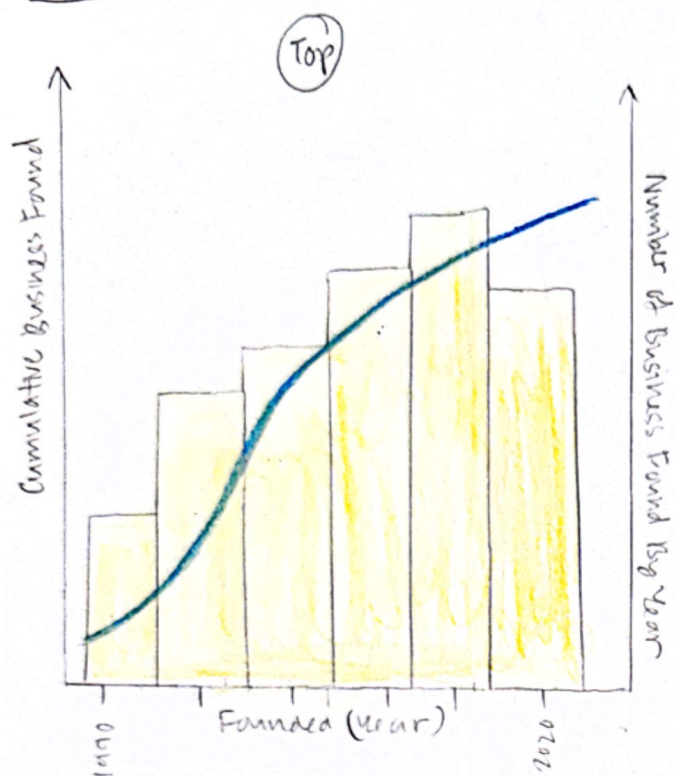
Date: 18/10/25

Sheet: 3

Task: Stacked + Lollipop

Sheet 4 - Alternative Design Sheet 3

LAYOUT



Operation

- hover : tooltip display counts and year for line + bar graph.
tooltip display counts and size range of businesses for radial chart
- legend : highlights sector for radial chart

Discussion

Advantages:

- communicates growth trend and industry expansion clearly
- radial chart adds visual appeal and multi-variable context.
- reinforces story of steady growth and business diversity.

Disadvantages

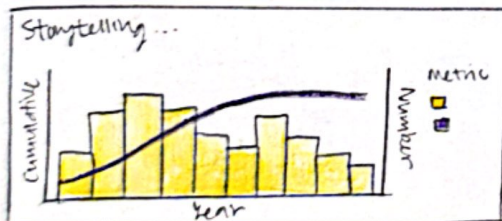
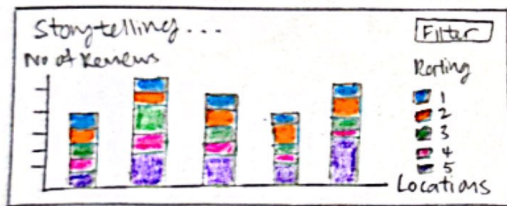
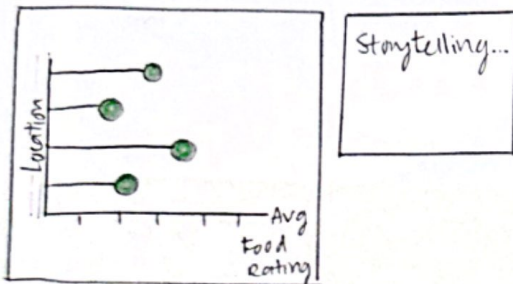
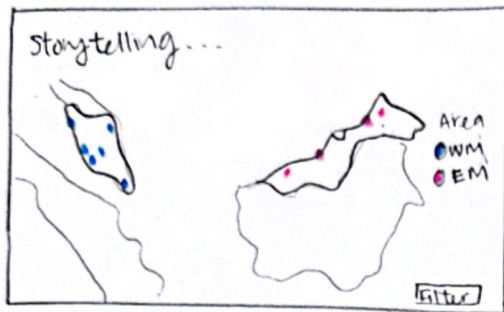
- dual axis focus may split audience attention
- requires careful colour coordination for readability.

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Date: 18/10/2025
Sheet: 4
Task: Line, Bar + Radial

Sheet 5 - Realisation

Layout

Title
Subtitle



Metadata.

Focus

The final design focuses on creating a narrative, interactive dashboard that integrates spatial, comparative, and temporal data into a single cohesive story.

- visualise Malaysia's culinary landscape geographically
- compare cities and states based on customer review
- demonstrate growth of Malaysia's F&B sector.

Operation

- dropdown filters : users can select locations and rating levels.
- hover tooltips : reveal detailed metrics like total reviews, year, business size, business name etc.
- legend toggles : isolate specific data segments

Details

Dependencies

- Vega-lite for charts and graphs
- github for deployment
- HTML5 and CSS for framework.
- Google Fonts for text styling

Estimated time and effort

- 2-3 days to construct visualisations
- 2 days to develop dashboard.
- 1 day for final styling.

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Sheet : 5
Task : Realisation