

# 1. IDEAS

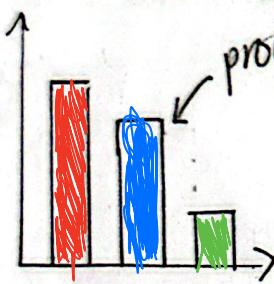
## 1. Chloropleth map



## 2. Proportional Symbol



## 3. Bar Chart

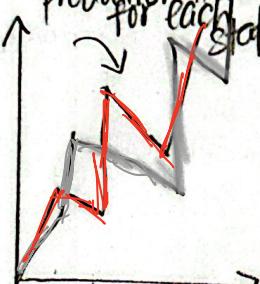


## Bubble Chart



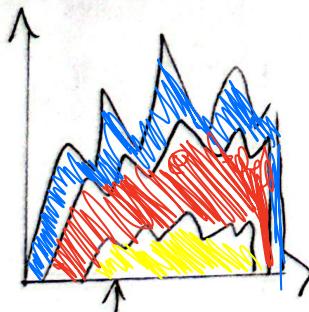
too many states will cause confusion?

## 4. Line Chart



production rate for each state

## 5. Stacked Area



production rates for each state

Sarawak	Per	Kel
Sabah	Ishor	Kedah

## 6. Heat Map

# 2. Filter

## 1. Proportional Symbol map

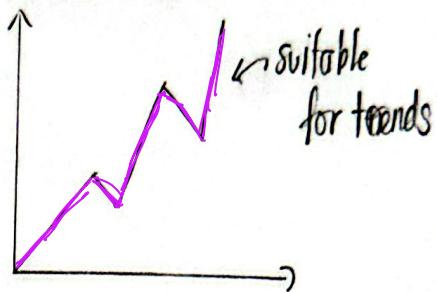


suitable for map

## Bar Chart



## Line Chart



suitable for trends

## 3. Categorize

### Spatial

- ↳ Chloropleth map
- ↳ Prop Symbol Map

### Temporal

- ↳ Line chart

- ↳ Stacked Area

### Quantitative

- ↳ Bar Chart
- ↳ Tree Map
- ↳ Bubble

## 4. Combine and refine.

Since production is an absolute value

↳ Use proportional symbol map.

Design 1 : Story Driven Scroll

Segmental layout; stats → map → Rankings  
→ Trend

Design 2 : All-at-once

↳ Multiple views

Design 3 : Use

Selected states

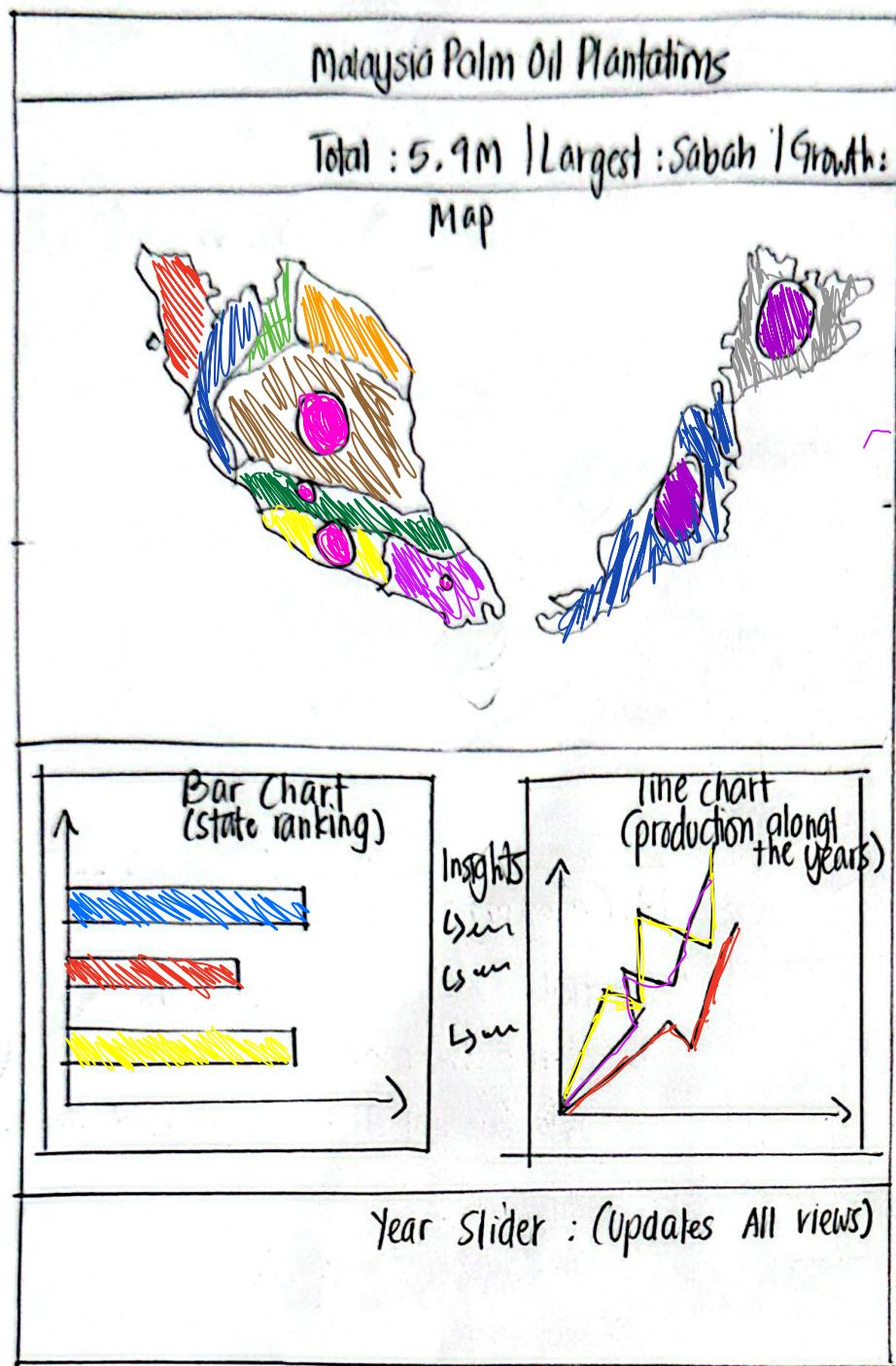
Views updated dynamically

## Question

Showing distribution?  
Chloropleth map better

to be used in this case?  
(can more info be displayed if used?)

# Layout



Title: FIT 3179 AS2

Author: Ruvesh

Date: 18/10/2025

Sheet: 2

## Operations

### map

- ↳ Click states
- ↳ highlights in all views

### Tooltip

- ↳ Hover
- ↳ show state data

### Year Slider

- ↳ update all views to selected year.

## Discussion

↳ Guides user through logical progression

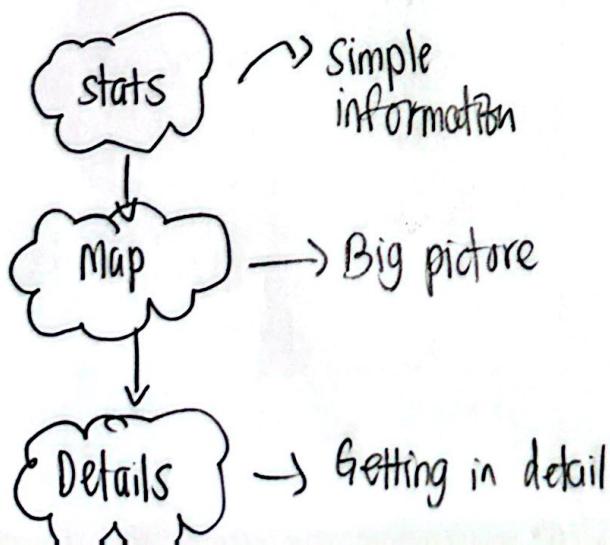
↳ Key insights visible without interactions.

↳ Low cognitive load

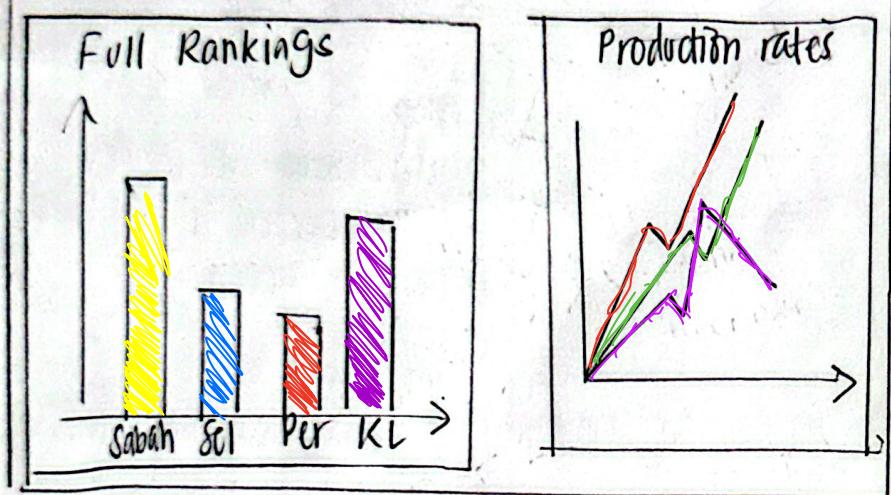
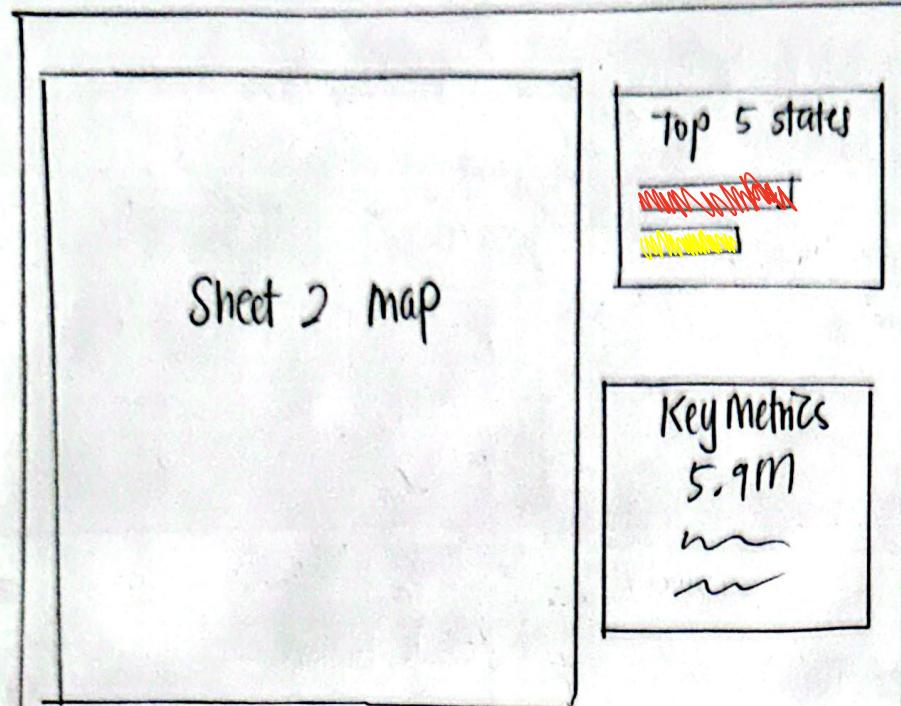
↳ One section at a time.

## Focus

### Guided Discovery



# Layout



Title:

Author: Rakesh

Date: 18/10/2015

Sheet : 3

Operations

Year dropdown  
↳ update all views

map

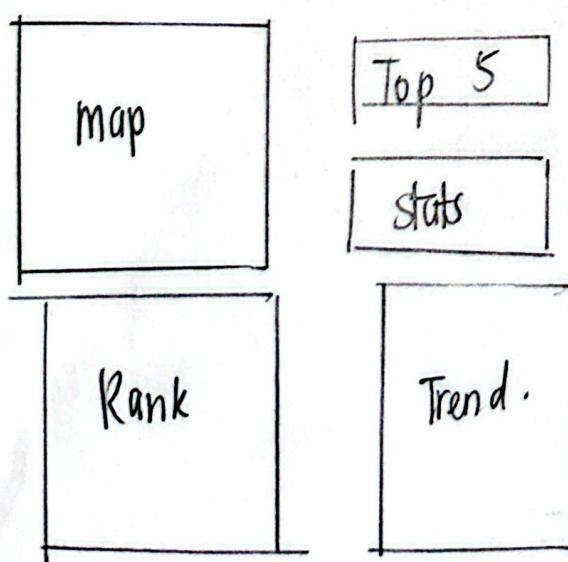
↳ Large Proportional  
symbol map

click state

↳ highlights across  
all views

Focus

↳ All at Once



Discussion

Too much simultaneous  
information for casual  
users?

Where would users start  
looking?

# Layout

**Malaysia Palm Oil Production**

state selector

Sel | Sabah | **Kedah** | Sarawak

Map View  
(Sheet 2 Map)

Bar Chart

- [Sabah - 1.6]
- [Sarawak] 1.5
- [Penang]

↳ Click Bar → toggle Selection

Trend (Production Amounts over time)

Insights

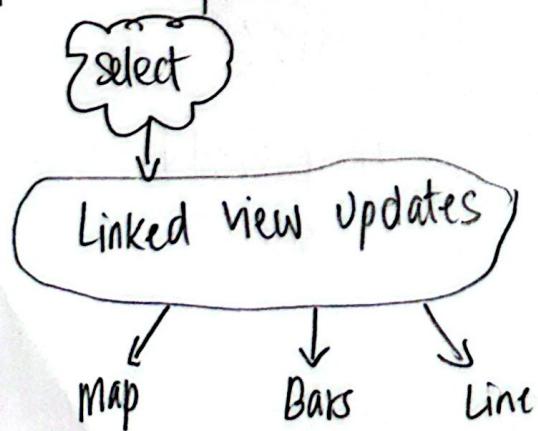
- ↳ ↗
- ↳ ↗
- ↳ ↗

Dynamic statistics. Updates based on selection

3.1 M	52%	+12%
Combined Area	% of total	Avg growth

## Focus

Comparison Explorer



Title:

Author: Rakesh

Date : 18/10/2025

sheet : 4

## Operations

Click Button

- ↳ Toggle state selection.

Map

- ↳ Shows all states
- ↳ Selected highlighted in green

Line Chart

- ↳ Only selected states plotted.

stats

- ↳ Calculate metrics for selected states.

## Discussion

Nothing meaningful displayed if user don't select states?

Users might not discover all the combination patterns

# Layout

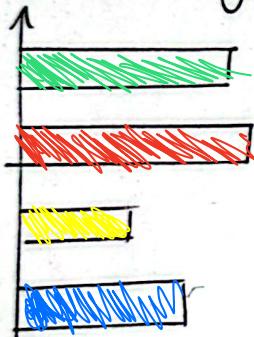
## Malaysia Palm oil production

Total: 5.9M ha | Largest: Sabah | Growth: 15%

### Map View

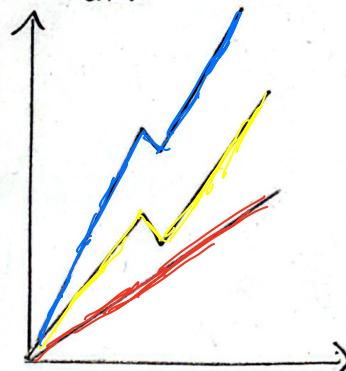


### State Rankings



In sights  
↳ un  
↳ un

### Trends



Insights  
↳ un  
↳ un

## Focus

### Progressive Comparison

- ↳ Overview → Interaction → Analysis

Title:

Author: Rakesh

Date: 18/10/2025

Sheet: 5

## Operations

### Map

- ↳ Click state will toggle selection (green highlight)

### Tooltip:

- ↳ State names will be shown along with % of total

### Ranking

- ↳ Sorted bar chart

## Detail

- ↳ TopoJson for Malaysia map (HW W9)

- ↳ Data joins for selection state

- ↳ Time ~12 hr estimated for VTS.