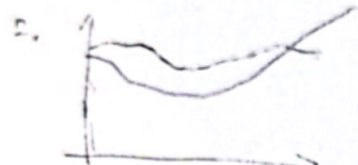


ideas

1. map

= choropleth

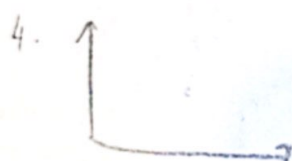
↳ % of land in permanent reserved forest (PRF)



line of PRF trends with forest loss

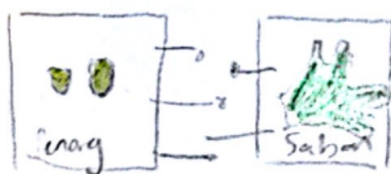


Bar of PRF loss per state



air quality scatterplot
↳ state - colour

5. comparing: East vs. Peninsular, state vs. state



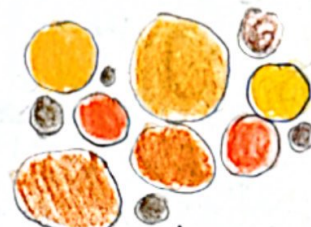
6. Malaysian Element:

↳ Flag

↳ poem

↳ environmental advocate - ESG

7.



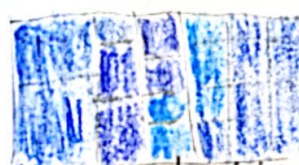
Bubble map for states / part

8.



tree icon density proportional to PRF percentage on map

9.



Heat map of states

CATGORIES

2. data

→ PRF by state choropleth map

map

→ rank table

→ top 10 PRFs

↳ within region

↳ trend miniatures

↳ small multiple,

"market & sources" part

FILTER

↳ Include:

↳ PRF by state

latest

history

↳ GFW tree cover loss by state

↳ monthly air quality

Exclude:

↳ highly granular protected area polygons

→ windows:

2005 - 2024

QUESTIONS

→ where are PRFs concentrated

→ High PRF → lower loss intensity?

→ States with growing PRF

but rising loss?

Combine 2 Reline

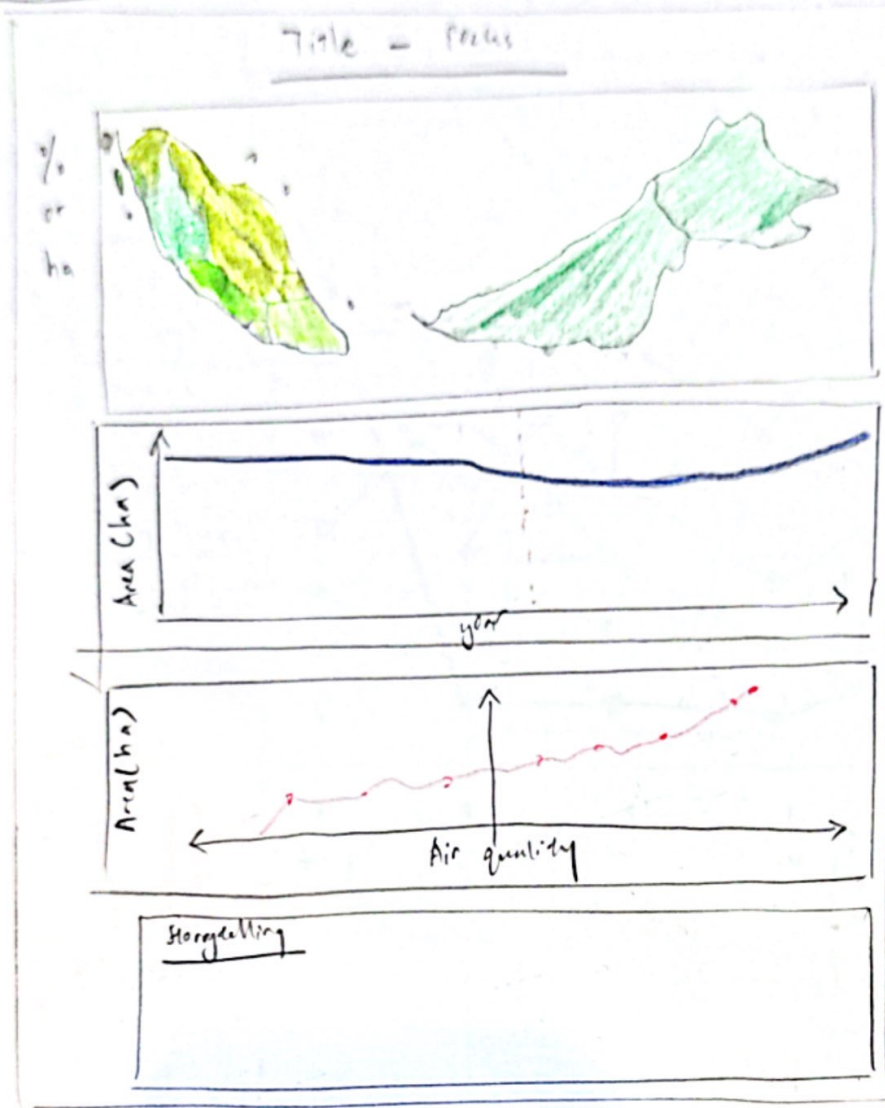
GeoJSON properties, stateISO ↔ PRF CSV state-code

part

Choropleth with quantize domain [0, 60], greens scheme

↳ Air quality panel normalised,

Layout



Options

- ↳ show tooltips
- ↳ show state details
- ↳ show plot % or plot ha toggle
- ↳ year slider for plot-history

Discussions

- ↳ quick overview
- ↳ details clear on demand
- ↳ minimal cognitive load

Focus

↳ Big Picture : minimal scroll

↳ Top Down clear structure from

Map → loss trend → Air quality
Storytelling

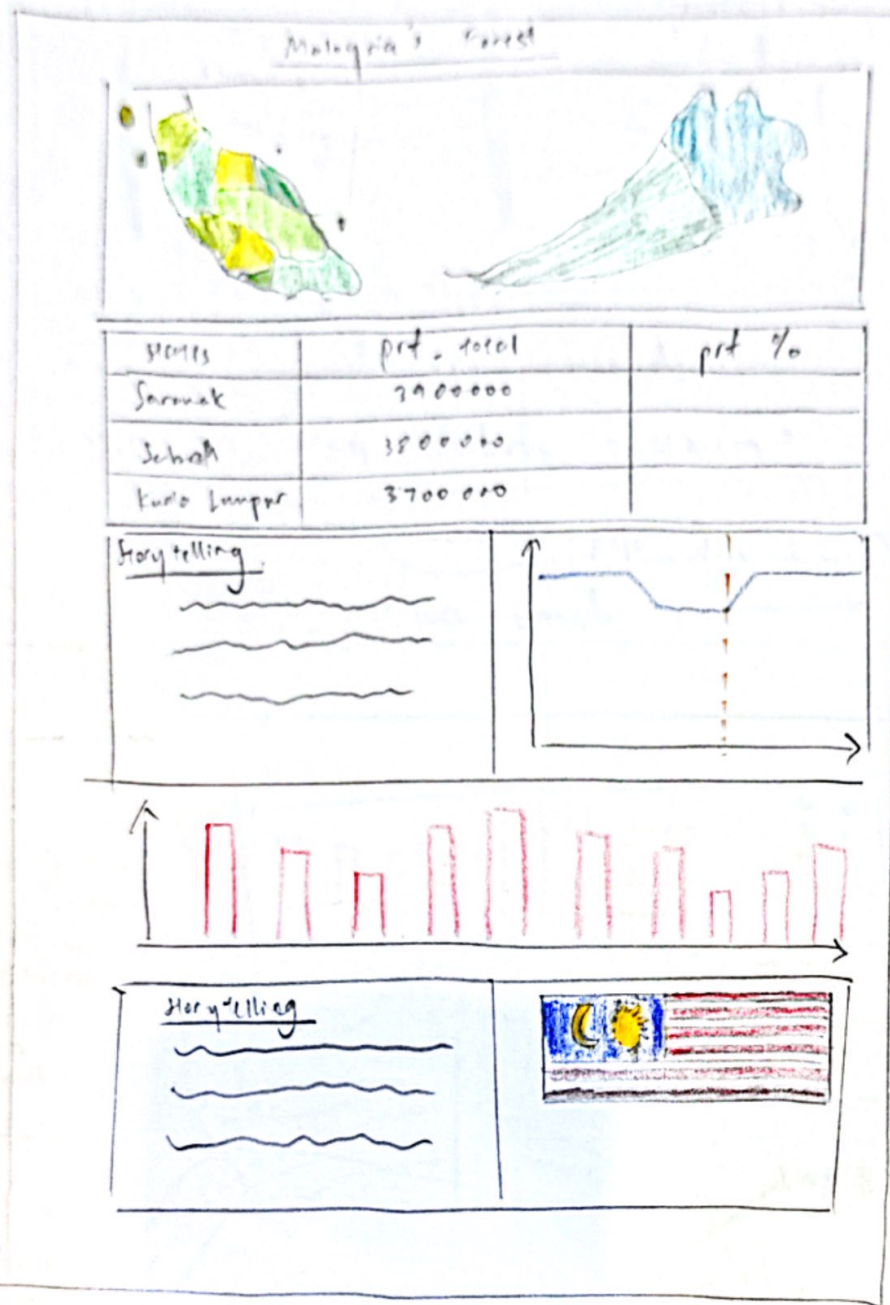
Author : Chng Yark

Date :

Sheet : 2/5

Task : PV2,
visualisation of
Malaysia's forests
and environment

Layout



Operations

- ↳ state filter
- ↳ year slider
- ↳ road table
- ↳ states profile
- ↳ regional data
- ↳ trend monitoring
- ↳ small multiples
- ↳ "method & sources panel"

Discussions

Pros: Good clarity,
top down view
all visible in one
look

↳ relative info
between prf. and
tree cover loss
+ Air Quality

Cons:
might be too
simple, take
taking up too
much space

Focus

- ↳ comparison & segmentation
- ↳ showing clear correlations and comparisons
- ↳ shows relative standing clearly
- ↳ too many controls if not grouped

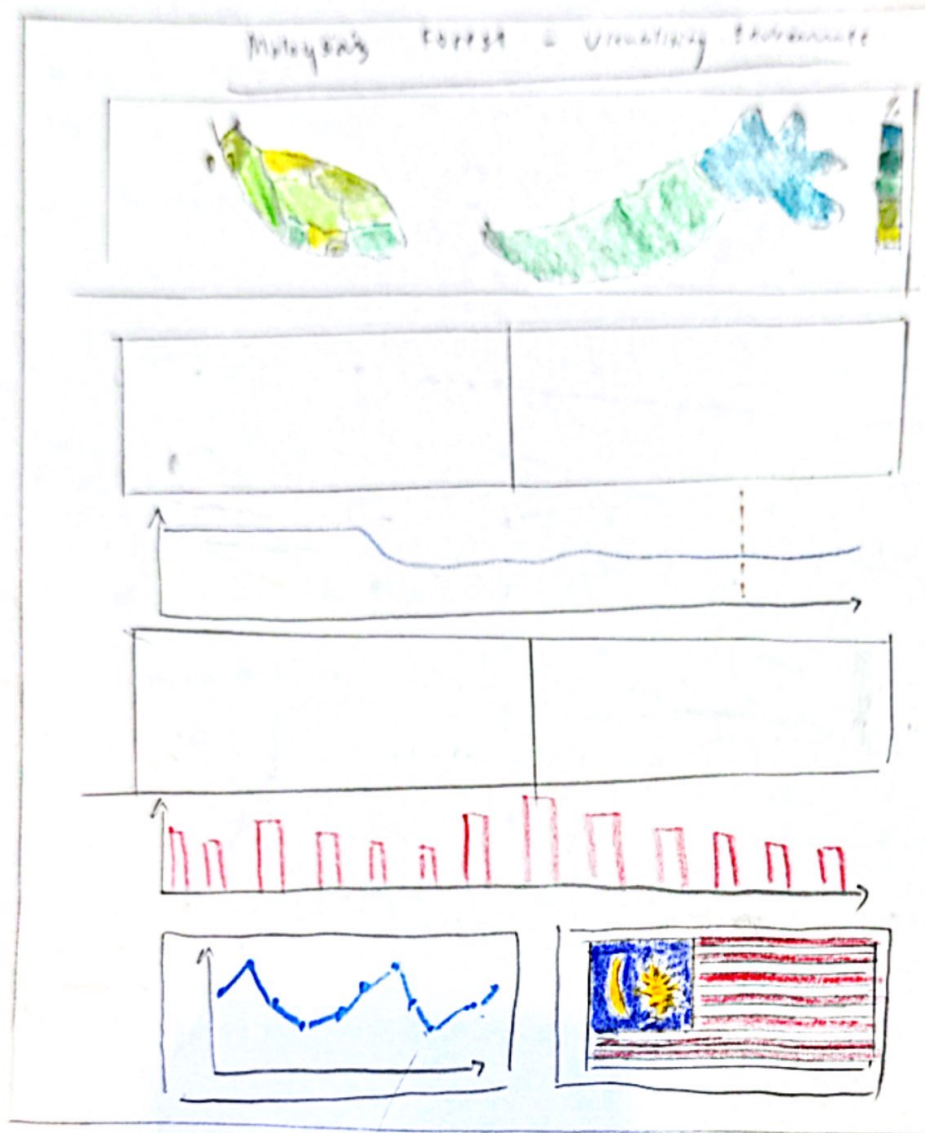
Author: Cheng Yany

Date:

Sheet: 3/5

Task: DV2,
Visualisation of
Malaysia's forests
and Environment

Layout



Operations

↳ scrolling

↳ step through
4 insights, each
step updates map
encoding

↳ filters as slides
switch

↳ click to focus

Discussions

↳ guides non-expert
users,

↳ keep performance
by precomputing
aggregates

↳ datasets inject

↳ ensure
accessibility

ours

↳ right column scroll with headlines & annotations

↳ Malaysia element

↳ advocating environmental awareness

↳ cultural resemblance

Author: Chung Rany

Date:

Sheet: 4/5

Task: DV2,

Visualisation of
Malaysia's Forests

Layout

Malaysia's Forests - View, Trends & Risks

Total PEF

State PEF

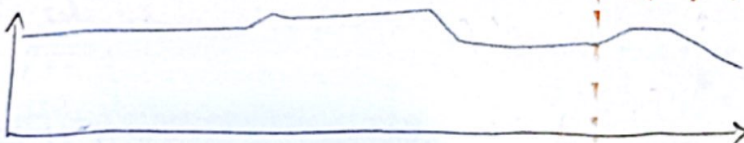


storytelling

storytelling

coverage changes

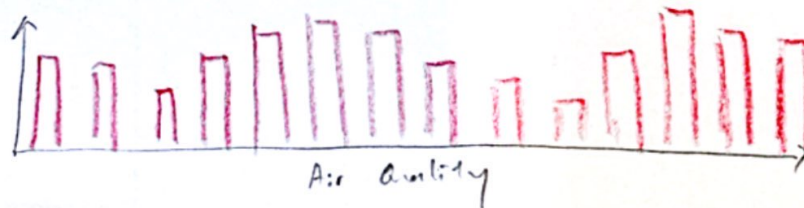
bottom



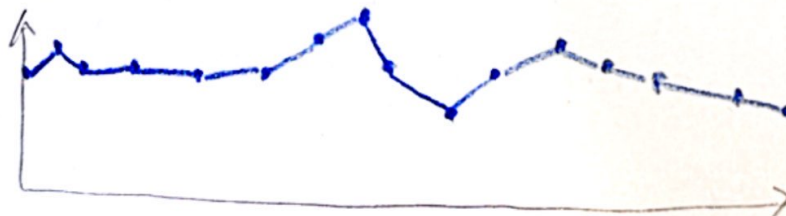
storytelling

storytelling

Tree Cover Loss By Year



Air Quality



Map Interactions

by Hover tooltip

by State name,
PEF, PEF%

by Slider for year
as line chart,
showing coverage
for cleaner
readings

by State filter
to focus of
different states /
or show the
whole country

by Air Pollutant
selection filter

by PM 2.5

by PM 10

details

by pef - percentage (pef - pct)

by Choropleth map with green idiom,
loss increasing of red colours

Author : Chong Yany

Date :

Sheet : 5/5

Task : DV2

visualisation of
Malaysia's Environmental
Sustainability