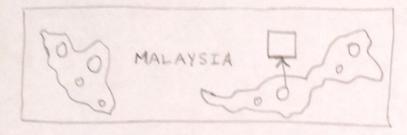
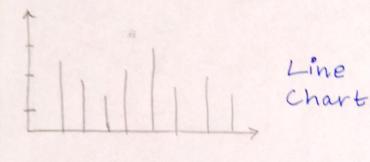
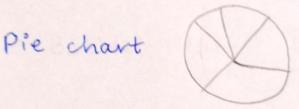
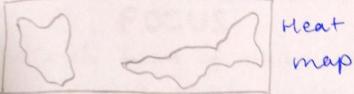
IDEAS



Bubble Plot







FILTER



Heat map might make it confusing and not really relavant for our visualisation.



Does not look nice if too many categories included.

CATEGORIZE

Bubble plot is good as we can see the size and colour hue to identify the characteristics of that particular anea.

Bar chart would be more easy to understand so it can be combined

Donut chart : easy understanding

COMBINE & REFINE

We can use line chart and bar chart for -> easy data visualisation and understanding.



Donut chart is prefered over pie chart as it is less confusing and more convenient.

Heat map not necessary so can use bubble plot instead.

QUESTIONS

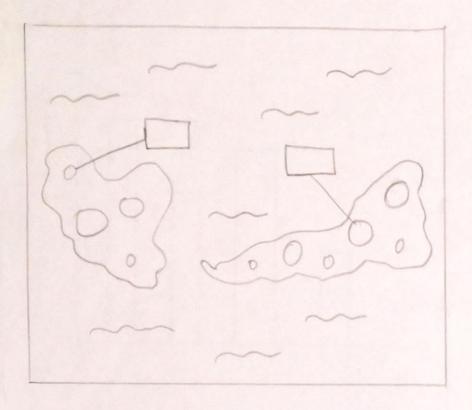
-> Is donut chart really necessary? Mostly used only for percentage comparision.

->Malaysia state borders necessary to be shown?

- Need graticule + ocean background both?

-> Annotations for all or only few?

LAYOUT



Bubble Plot

FOCUS

The main focus of this design to show the 120.0f species in each region.

The bubble size shows us the density of species count in that particular region.

-7 The darker the colour, the more dense that area is.

-7 This visualisation easily helps the viewers to see and understand what is the size and colour of the blabble.

-> Annotations can be used for more important information.

Title: FIT 3179 Data Visualisation 2 Name: Galidevara Sharmila Date: 01/10/2025 Sheet: 2

OPERATIONS

Thovering over bubble shows further details.

Timportant into is annotated

Ocean background for better view of the country and also borders to make it easily visible.

PROS ION

- 7 Provides easy to view layout by looking at the sizes and the colour of the bubble.

Trisually easy to see and understand.

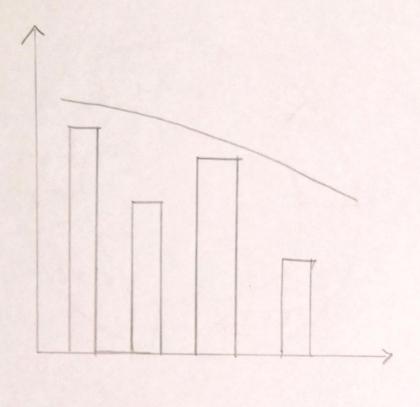
CONS

desired.

-> Need to have proper colour distinguishing cutegory / scaling otherwise all might look like the same colour.

-> Cannot have range over time unless combined with tropdown menu if

LAYOUT



Bar chart

FOCUS
The bar chart is an easy
visualisation for comparision
between different areas of
malaysia.

-> we can check which region is the highest contribution and which is low easily.

-> Having bars allows viewers to compane information easily and is better.

-> Bous can be sorted for more simplicity.

-> Selecting one bar can make It highlighted if heeded. Title: FIT 3179 Data Visualisation 2

Name: Galiderara Sharmila

Date: 03/10/2025 Sheet: 3

OPERATIONS

-TWE can hover over the bars to show more specific details.

-> Can be useful
for multiple plot
of data/to represent
multiple datas in
different plots.

DISCUSSION

PROS

-> Simple and easy to understand.

-> Labelling prevents any confusion.

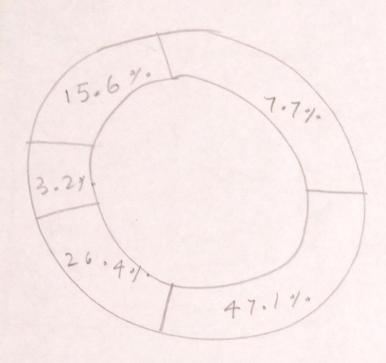
- 7 Easy for comparing values.

CONS

Too many bars would make the plot messy and heed to switch to alternative plot for visualisation.

> Pata misinterpretation might be possible for this plot.

LAYOUT



Donut Chart

FOCUS

This Lesign focuses on cartegorical distribution of Lata.

-7 It shows how much each of the sector contributes to loss of trees in malaysia.

By using a donut chart over a pre chart over a pre chart over can easily view details without getting confused.

-> we can visually see which is the biggest contributor by this visualisation

Title: FIT 3179 Data Visualisation 2 Author: Galidevara Sharmila

Date: 29 |901 2025 Sheet: 4

OPERATIONS

-> Labels show us which sector is how much percentage.

-> Hovering over will give us more Letails related to each of it.

-> can label in the centre of the donut for necessary into.

DISCUSSION

PROS

-> Simple and very clear to view and understand.
-> Downt chart has space in the centre which makes it easy to view companed to a pre chart.

CONS

-> Works best on by with few categories.

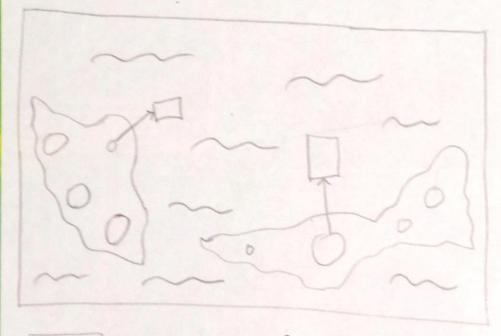
-> Many categories.

-> Many categories would make it very messy and chuttered.

-> Requires proper whomes to avoid confusion while viewing.

DESCRIPION OF ALGORITHMS

The main focus of the final design is;



Bubble plot being the main focus, we have all our other charts in a neat order with Information box beside each relavant one with explanations.

SPECIFIC REQUIREMENTS

- Devices: can view on both mobile and laptop but might heed to add adjustments for the mobile view.
- Software requirements and Hardware requirements must be followed to get working website.

Title: FIT 3179 Data Visualisation 2 Name: Galidevara Sharmila Date: 05/10/2025 Sheet: 5

DEPENDENCIES

Software: vega-life, html, css (for main design of our visualtsation).

Data sources: UNEP, World Bank Data, Global Forest watch Coatasets for forest and species count). Hardware: Phone I Laptop to view the deployed link.

Also need vs code to view source code & g edit.

ESTIMATE TIME

- -> Pata collection and cleaning: 4-5 hours
 -> Chart creation in
- initial phase: 1-2 hours (each)

 Theograpion of charts for longout: 3-4 hours.
- -) Total estimated time for completion of the DV2 project is around 20 hours over few weeks.