

Title: Malaysia National Fact

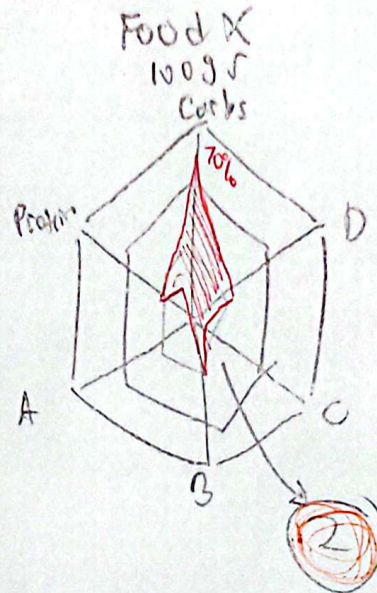
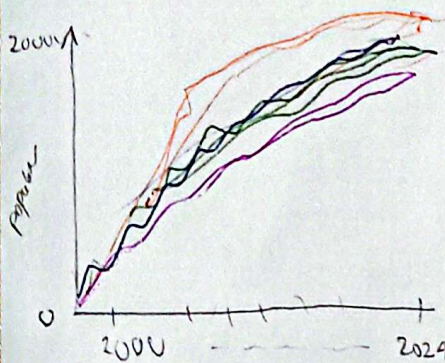
Author: 32976723520 A.T.

Date: 12/10/24

Sheet: 2

Task: Map projection & compare Malaysia

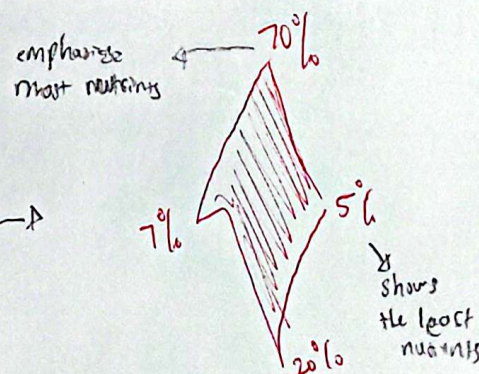
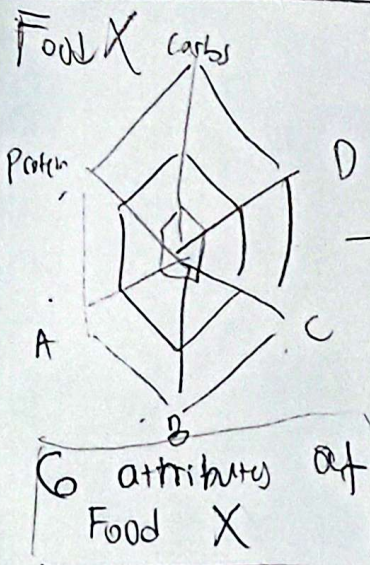
Food Trend



Default layout is Visual Center of the Map

① Users are able to Spot Malaysia's proportional symbol data point clearly

② Spider chart gives an easy to understand nutrient proportion



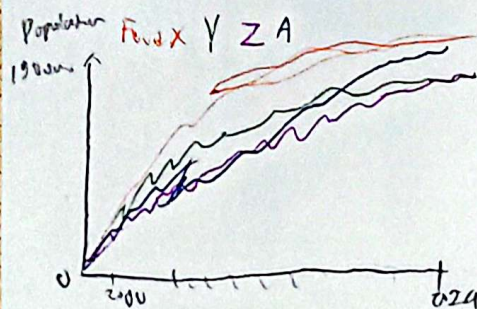
Composition of Food X

Advantages:

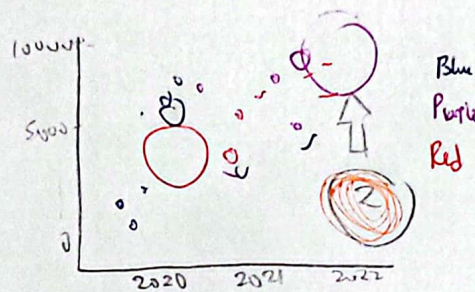
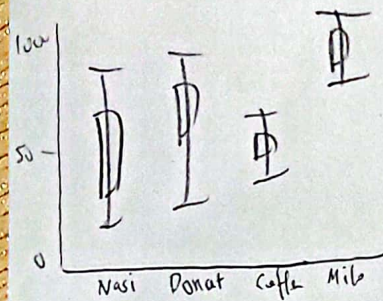
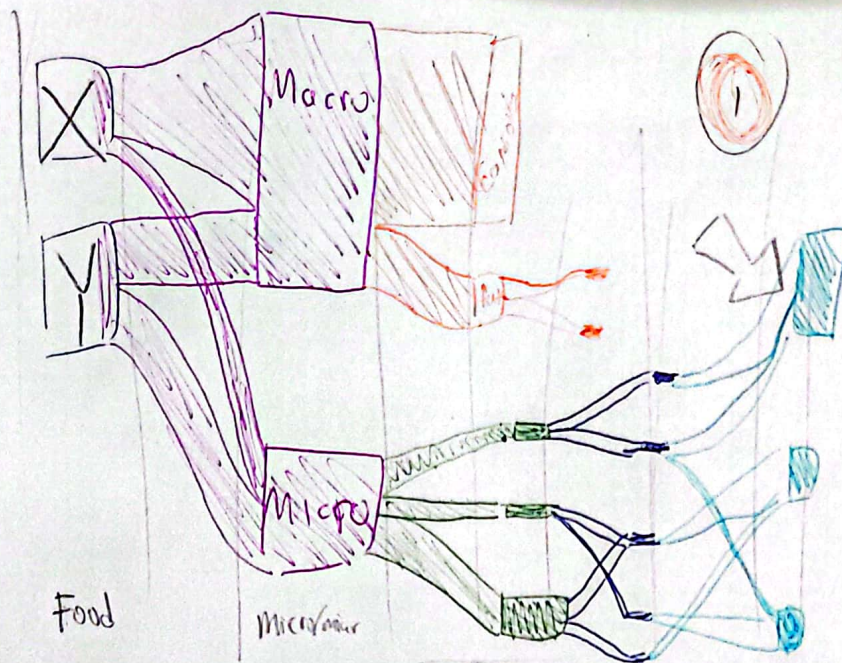
- Country size doesn't confuse the data size.
- Spider is easy to understand

Disadvantages:

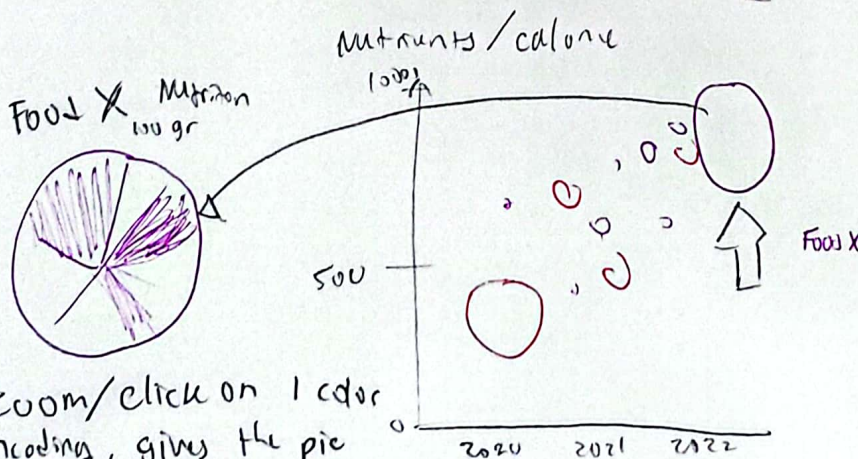
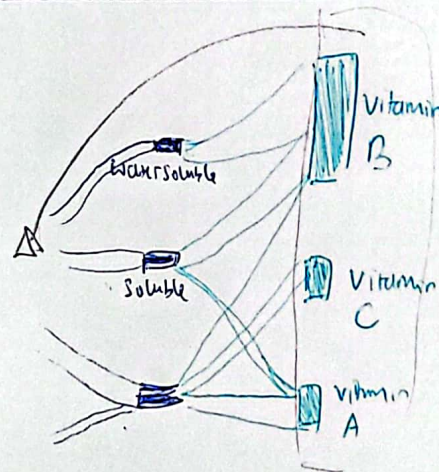
- proportional should use ≥ 1 attribute to visualize
- line chart is messy



Yearly progression of most eaten food in Malaysia. Showing timeseries comparison



Emphasizing the nutrients
break down the body
will receive according
to different food sources
accumulatively



Zoom/click on 1 color
encoding, gives the pie
chart of food nutrients

Title: Malaysia National Facts

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Date: 12/10/24

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Task: break down
Food's nutrients

Default display
gives higher visual
weight to sinking
diagram

① tooltip appears
as user hovers
over the nodes
of each axis

② Selection filtering
activates as user
clicks on a data
color

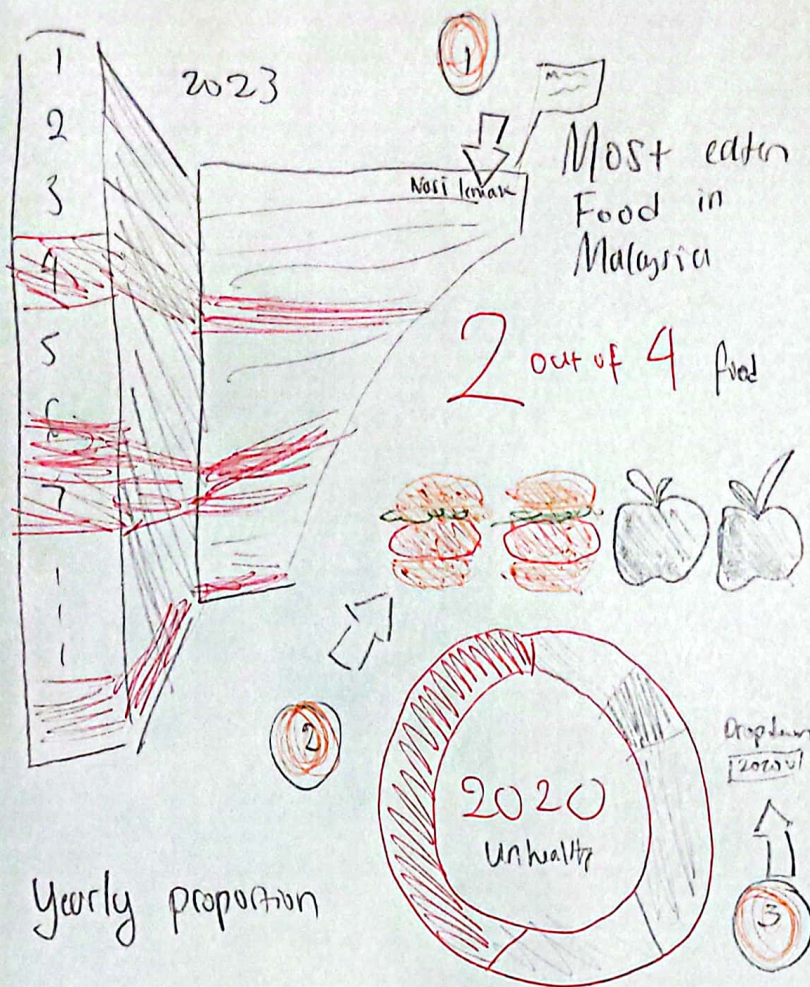
Advantages:

- Sonkey is interesting
and spreads out
the proportion of
Nutrition

Disadvantages

- bubble plot
is not efficient

- Redundant box
plot.



Title: Malaysia Nutritional Facts

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Task: Integrate filtering

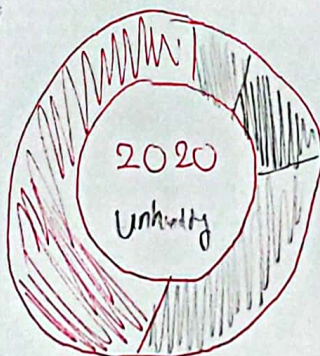
Default display shows the ranking bar graph first.

① Tooltip appears as user hover over the bar to show the number of population

② ratio follows the filtering in ③

③ users are able to filter the year with dropdown

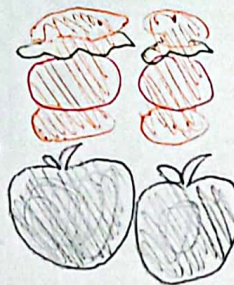
Before



2 out of 4 food are unhealthy

Dropdown

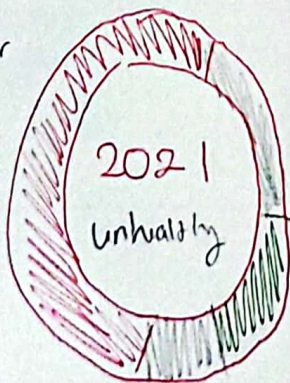
2020
2021
2022
2023



③

Before & after dropdown selection

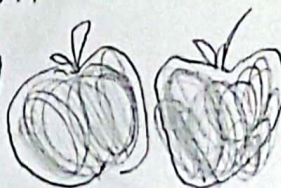
After



1 out of 3 food are unhealthy

Dropdown

2021



changes 2 graphs after dropdown

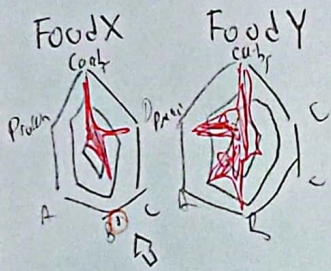
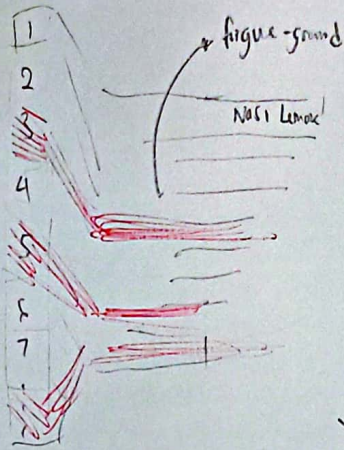
Advantages

- Simple dashboard
- Uses icons that are familiar to the users

Disadvantages

- Visual weight unclear
- Does not describe further of the most eaten food

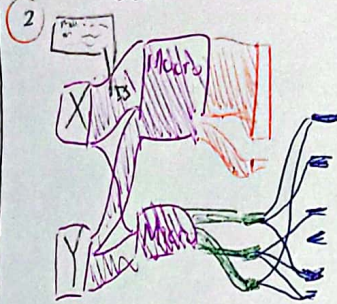
MOST Eaten Food



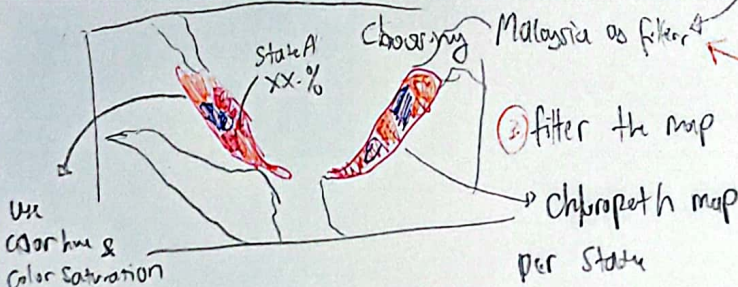
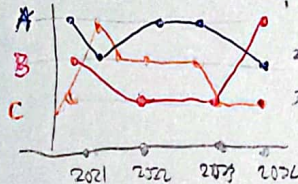
- ① Annotation
- ② Tooltip
- ③ Filter

SCROLL

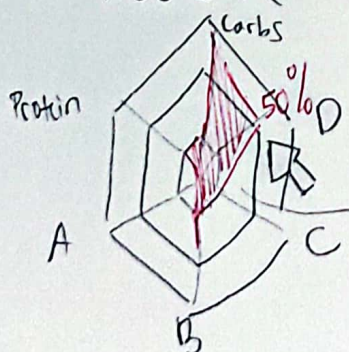
Balanced Food



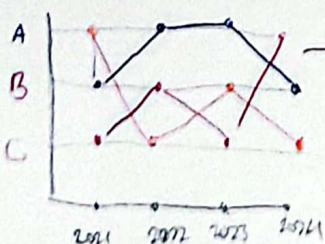
Mortality Cause



Food X



- ④ Housing shows percentage
- use contrast color
- Small multiples have same color as figure ground



Displays the cause trend each year.
Alerting audience to implement mindful consumption.

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Task : Combining Data & Visuals

Default page is the title, as user scroll, they can see more graphs and storytelling of Malaysia Nutritional Facts using the following:

- ① Annotation of the data attributes/information they need to focus on.
- ② Users are able to see the tooltip of the sankey diagram
- ③ Users are able to filter/zoom Malaysia's map

Algorithms

- Plot Global & Local Data
- Convert to Google Constant

Dependencies:

- Python: Pandas
- R: GG Plot
- Vega & Vega-Lite topojason

Time Estimate:

- Brainstorm : 1 week
- Data Collection & parsing : 2 weeks
- Consulting : 1 week

Software & Hardware:

- Vega, Vega-Lite, Google Charts, & VS - code & Excel