

Ideas:



Types of Datasets:

1. Country National Food
2. Disease Origin and Spread location
3. Age / Life Expectancy
4. Livability index of each country
5. Shipping / freight routes
6. Global CO2 Emissions
7. Natural Disasters
8. Ethnic Makeup of Australia
9. Migration Routes

Filter:

- 3, 4 : Too similar to A1

- 9 : Not feasible

- 1, 2, 5, 6, 7, 8 are good, 9 Migration Routes

Categorise:

- D.S 1 can be used for food

- D.S 2, 4 can be used for health

- D.S 5, 6 is for logistics

- D.S 6, 7, 8 for world climate

Combine:

Design #1: Global Freight & Movement of products

Design #2: World health / Living

Design #3: Global Warming / Climate Change

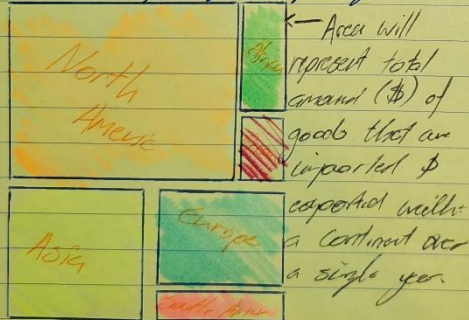
Design #1

World Map Displaying Shipping Routes



Varying thickness indicates amount of goods being exported.

Amount of Importing / Exporting



* A slider animation can be added to to visualise the data in different years

Isaac Barnes 33109222
Sheet 2/5 Data Visualisation 2

Requirements: / Focus

- Vega lite / HTML & CSS
- JS Knowledge
- Data collected from world in our data / Kaggle / Hugging Face
- Data preparation will be done in Excel

Description / Discussion

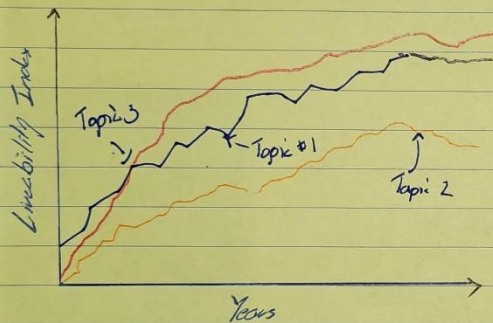
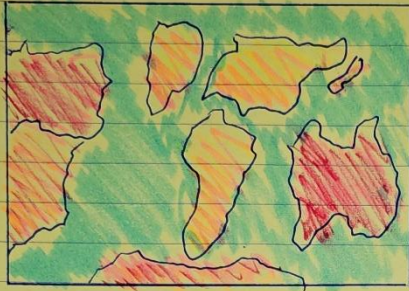
Will try a depict how exactly things & products will be used & transported. Also giving users an insight on which countries / regions are working / dealing with.

Operations

* Tooltip => - Year - Import (\$)
- Country - Export (\$)

* Sliding Bar to visualise change in data over years.

Design 2:



- Chart 1 will have a choropleth map showing countries that have been affected (cases / deaths) by a certain disease.

- Chart 2 can be a line chart showing the change in life expectancy over the years in certain countries.

Isaac Barnes 33109222

Street 315

Data Visualisation 2

Operations:

* Tooltip:

- Year
- Country
- Cases
- Deaths
- Disease Name

* Sliding bar to change the year being displayed. The slide bar will be connected to both graphs.

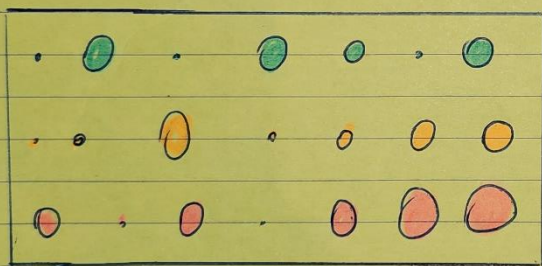
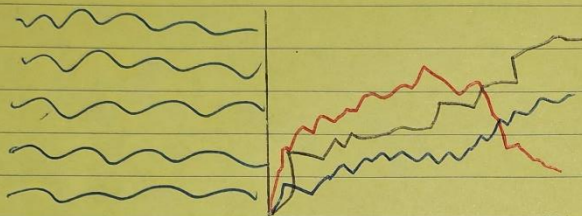
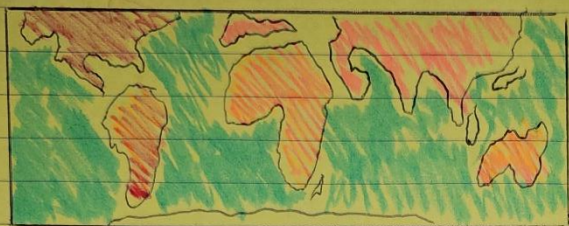
* Country Viewing Option will allow users to pick which group of countries can be displayed

Discussion:

Showing a global view of how certain types of disease & viruses spread continents & kill people in certain countries will give the viewers a more well rounded & better perspective.

By adding an annotation such as the year slider, users are able to see the change in data in real time giving them a more immersive experience.

Design 3:



First one is a choropleth map showing the different amounts of CO2 emitted by every country.

Second Chart is an animated line chart that displays the death count from different types of natural disasters.

Third one is a bubble chart showing the frequency of natural disasters

Isaac Barnes 33109222

Sheet 4/5

Data Visualisation 2

Operations:

* Tooltip:

- Year - CO2 amount
- Country (kg)

* Sliding bar to filter between the years

* Menu selection to show death count continents / countries.

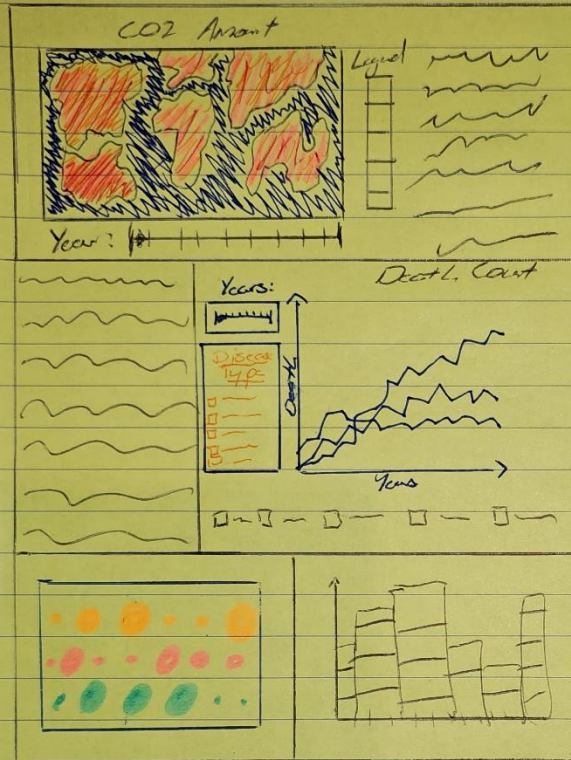
Discussion:

Utilising multiple different type series datasets will enable the viewers to obtain a better understanding in trends & patterns.

Preprocessing of data and data collection will take a lot of time.

Showing vastly different types of visualisations should increase immersion within readers and also make it more engaging

Dashboard: Design 3



Requirements

- Java Script and Vega Lite will be the main tech stack used to create this visualisation.
- Microsoft excel will be used to process and alter data
- Datasets will mainly be obtained using Kaggle and "world through data" and World Health Organisation

Issue Barnes 33104222

Sheet 5/5

Data Visualisation 2

Description

This dashboard will create to the readers how the planet is being impacted by humans.

The dashboard will allow users to see the change over years using certain animations as well as letting them view certain regions within the world.

Users will also be able to see how differently certain countries are in their carbon footprint as well their contribution to climate change & global warming.

Build Time:

As there are multiple types of visualisations utilising different types of filtered data, the time needed to create this will roughly be 1-2 weeks with an additional day need for final editing / check over.