

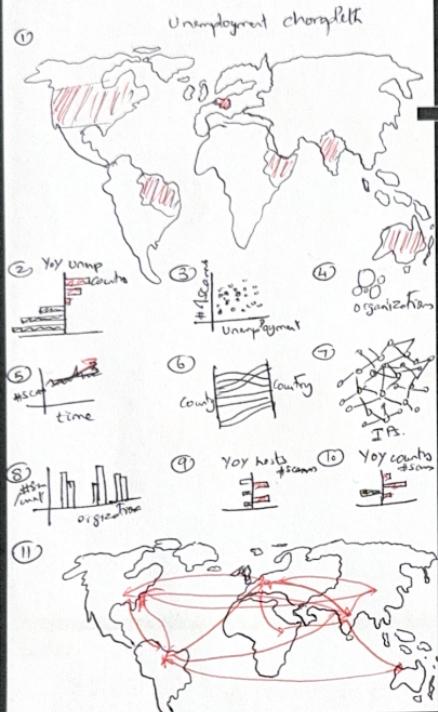


FIT5147 Data Exploration and Visualisation

Data Visualisation Project Five Design Sheet

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1. Ideas



2. Filter

- * Graph ① shows the choropleth plot of unemployment and an overview of the data
- * Graphs ②, ⑤, ⑨, ⑩ all show the year over year changes for different metrics
- * Graphs ⑥ & ⑪ show the flow of Scams from one country to another
- * Graph ⑦ shows the overview of the connection between the IPs and Country

3. Categorize

- * Graphs ① & ⑦ can be combined to show an overall overview of the data
- * Graphs ②, ⑤, ⑨, ⑩ can show Yoy changes for different metrics like # Scams - Unemployment across respective countries & Organizations
- * Graphs ⑪ & ⑥ can be categorized as places between countries

4. Combine and Refine

- * Graphs ②, ⑤ & ⑩ can be combined together to show specific views and findings of (Yoy) Year over Year changes for specific metrics
- * The flow graphs ⑪ & ⑥ can be combined to be controlled by one spider or variable

5. Question

1. How does the Scams and Unemployment has changed over years in different countries?
2. How is the flow of Country Scams based on website country & phone country?

Layout

(1)



Title: Tech Scams & Unemployment

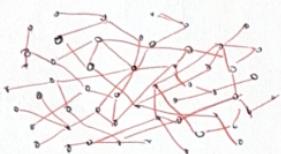
Author: Sriram Vasav

Date: 11/10/2023

Sheet: 02

Task:

(2)



U.S. ▾

Operations

* From the first graph on the left it shows the choropleth of the number of scams all over the world and when ~~the~~ moved has a tooltip

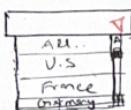
* The second graph shows the network structure of the IPs of the data.

Focus

Tooltip

The tooltip when hovered over different countries shows the respective # of scams and their respective data

The dropdown for the IP network graph can be filtered to show the network data for all countries or only selected ones.



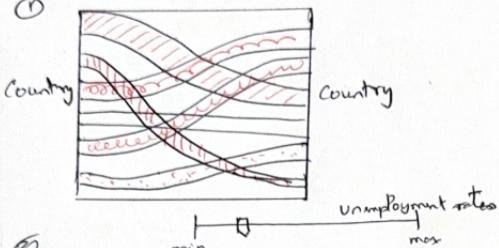
Discussion

* The choropleth map gives a really good overview of the total unemployment & its related scam counts

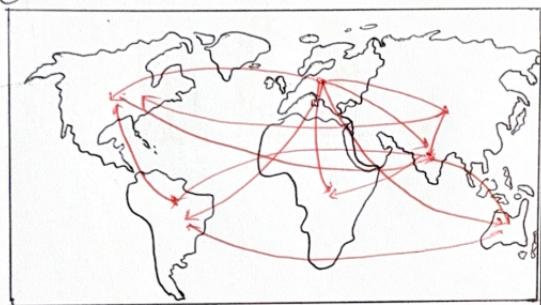
* The network IP diagram / graph gives a dense understanding of how the data is connected & to filter ~~the~~ based on the country

Layout

①

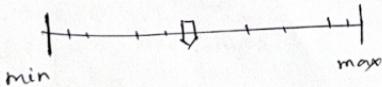


②



Focus

* A slide bar to change Re
unemployment rate between the min to
max to see only the countries with
high & low ^{value of} # Scams



Title: Study of relation b/w Scams & Unemployment

Author: Sriram Vasan

Date: 12/10/2023

Sheet: 03

Task:

Operations

* The graph on the top shows the flow of # of Scams from the website country to other country

* The same graph is shown below with the geographic data on the spatial world map with arrows.

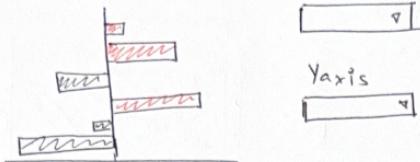
Discussion

* The Sankey chart could be a little tricky to implement with the flow unknown & irregularities in the data.

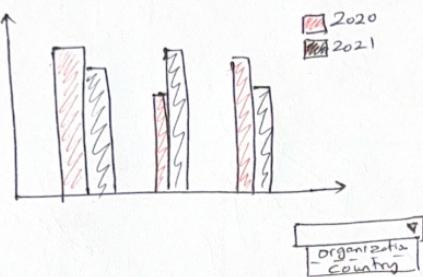
* The map flow can be very informative and helpful in understanding the world Unemployment & Scam dynamics.

Layout

①



②



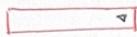
Study of relation between
Title: Tech Scams & Unemployment
Author: Sriram Vasari
Date: 12/10/2023
Sheet: 04
Task:

Operations

- * The first graph shows the year change for different metric based on the user selection
 - X-axis can be Unemployment or # of Scams
 - Y-axis can be country or organization
- * The same visualization for the below but with the different years in different colors

Focus

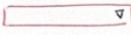
X-axis



- * The X-axis can be chosen according to the user input can be between Unemployment & # Scams

* The Y-axis has the variety of selection for comparison between the categories like country and organization.

Y-axis



Discussion

- * The year over year (YoY) change can be used to understand the major contributors due to scams and unemployment

Layout

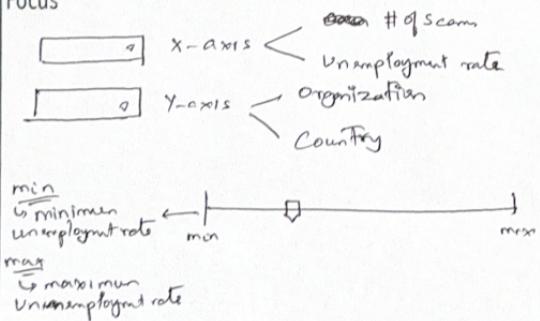


Study of relation between Tech Scams & Unemployment
Title: Tech Scams & Unemployment
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Sheet: 05
Task:

Operations

- * Slides are used to change the unemployment rate
- * The first drop down for the network lets us choose between different countries
- * The X-axis & Y-axis drop down can be chosen to show the YoY change for other different metrics & their respective categories
- * The tooltip gives the scam per country

Focus



The tooltip is a powerful tool to show further more simplified and robust detail for the visuals

Detail

- * The visualization included a total of 6. These come from 12 datasets for unemployment.
- * Tech Scams & web scraped from the IP for the different organizations. Has phone number fact table.

* Latest version of R-shiny will be used for implementation.