TITLE: FIT3179 Assignment 2

AUTHOR: MALIHA TARIA

DATE: 22.10.2025

SHEET: 1

0 IDEAS

1 - Chloropleth map



2 - BAR CHART

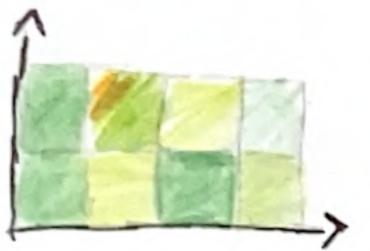
3 - LINE CHART





4 - Heatmap

map 5 - Donut





6- PIE CHART

7 - STACKED AREA





8- Network Graph

9 - SCATTER PLOT





3 FILTER

- will remove the network graph as Too many node connections make the figure unreadable of very duttered

3 CATEGORISE

- 1) chloropleth map: To show location of earthquakes with magnitude
- (2) {(3) To show the damage caused by earth quakes
- 6 45 To show Top 5 countries with highest magnitude quakes.

@ COMBINE & REFINE



Using bar chait to show the no. of quakes in countries over 25 years

- use line to show the pattern

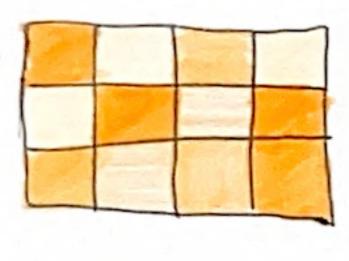
(5) QUESTIONS

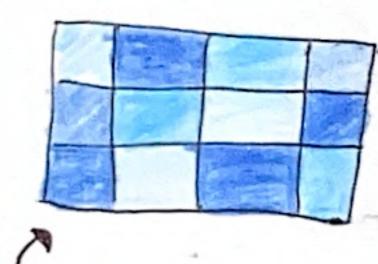
- where do the highest quakes occur?
- now deadly are they?
- how costly are they?
- how have the earth queke locations changed over time?

CHLOROPLETH MAP

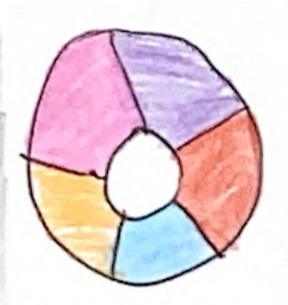
TITLE

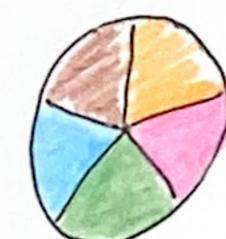
FILTERS : YEAR





heatmaps





DONUT

PIECHART

disadvantages

DISCUSSIONS

advantages:

each section is

well defined &

easy to understand

easy to understand

size of graphs
are fixed of might
be hard to understand

- portrays a clear story

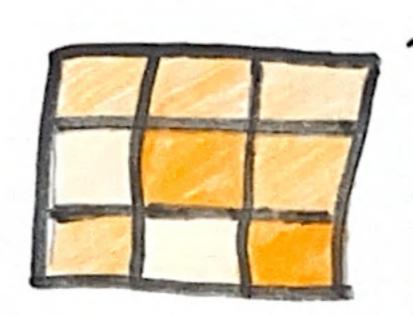
- heatmap might be hard to read. TITLE: ASSIGNMENT2

AUTHOR: MALIHA TARIQ

DATE: 22 - OCT - 25

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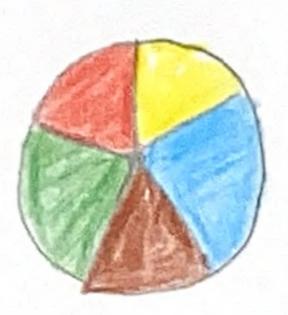
FOCUS



and the no. of earthque as well as the magnitude.

To show damage caused to countries during a whole year





- To show TOP 10 countries with the highest deaths due to earthquakes over 25 years

OPERATIONS

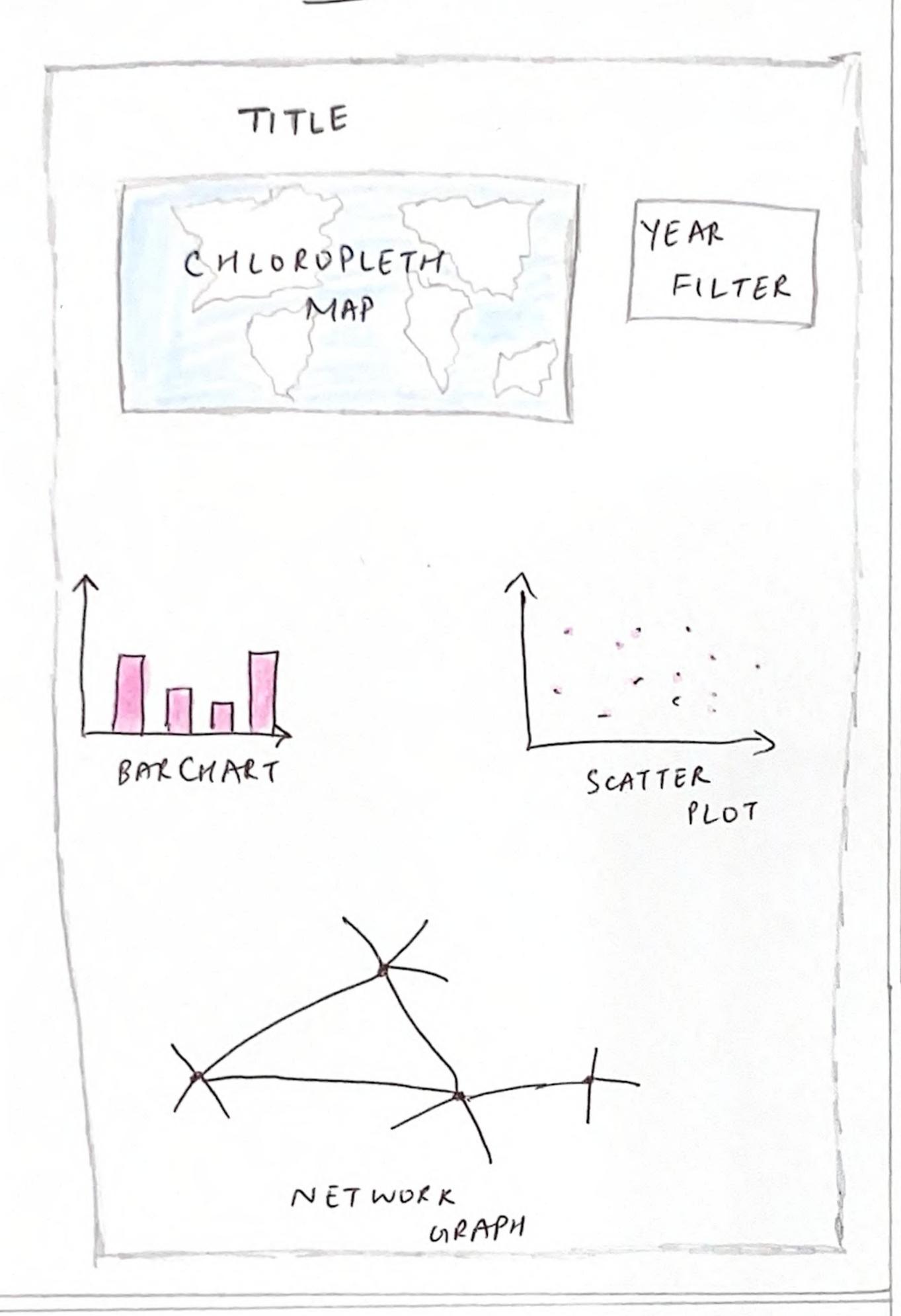
· Year filter for map & the heat maps YEAR _ 2011

· Year filter for donnt chart YEAR

> D 2000 D 2001

D 2003

. Add legends for chloropleth map



DISCUSSIONS

PROS

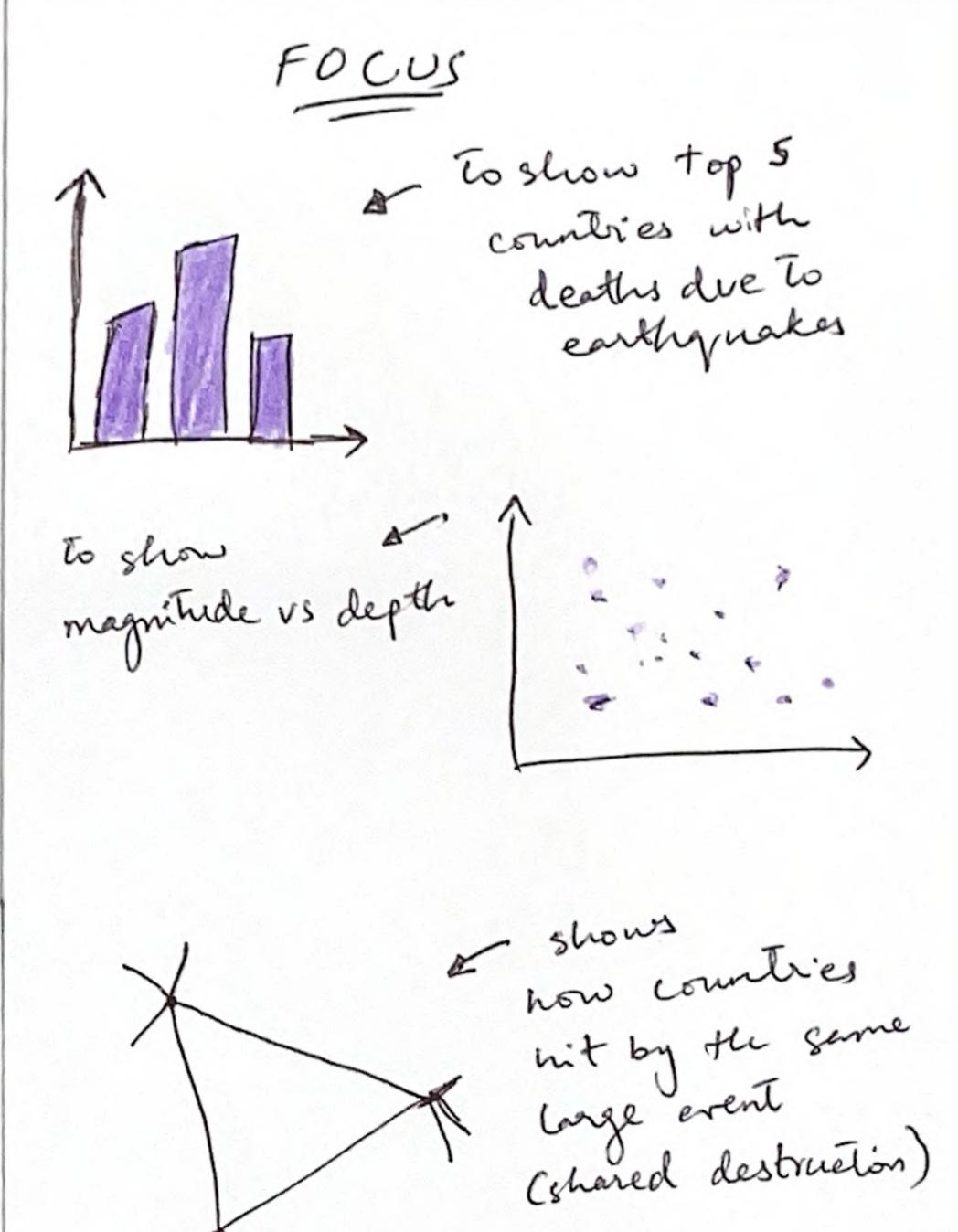
- · Network graph is visually affecting
- · Scatter filst might not be suitable for presenting country earthquakes data

- Year filter makes it easier for users To view specific year of compare. TITLE: ASSIGNMENT 2

AUTHOR :

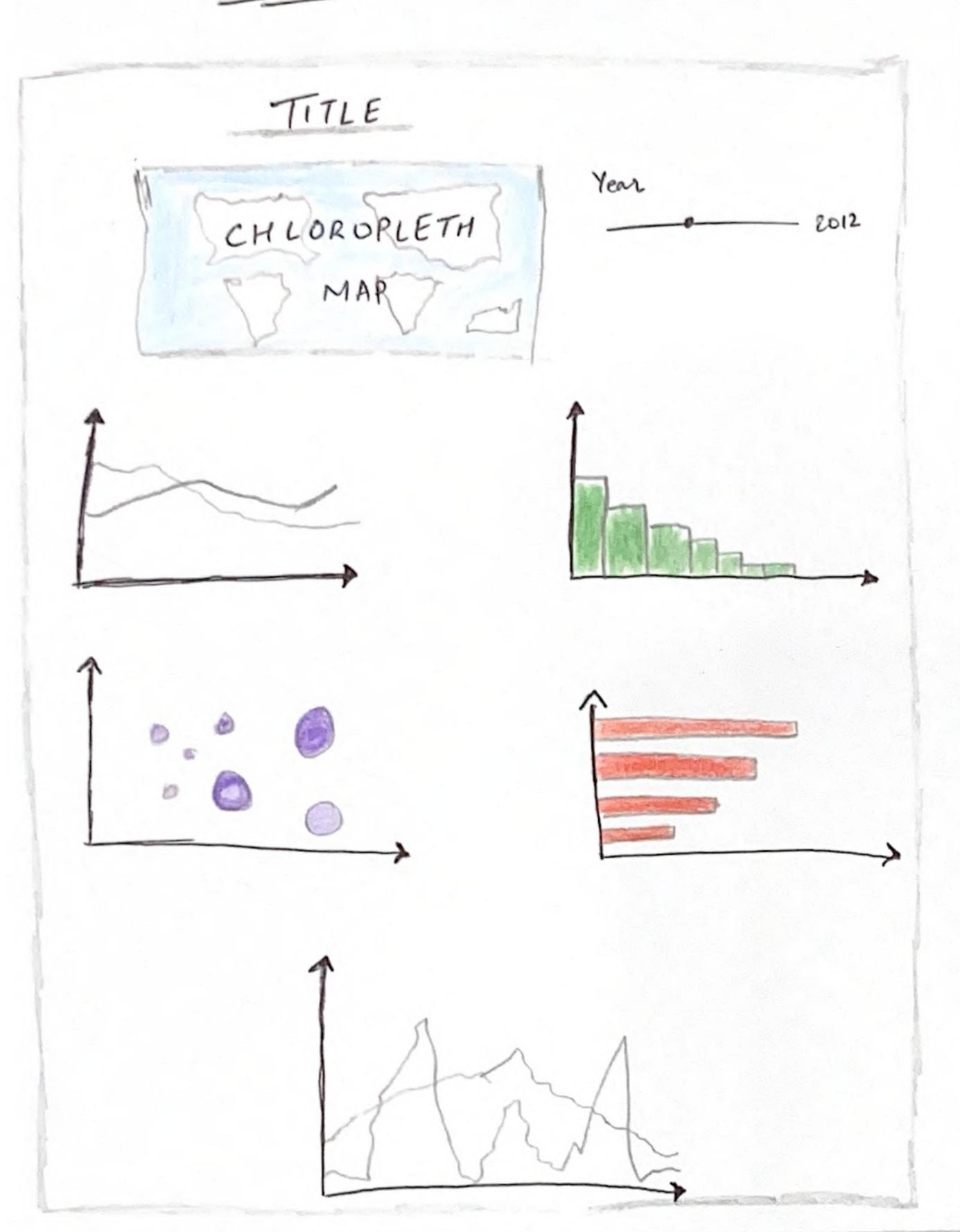
DATE: 22 - OCT 2025

SHEET : 3



OPERATIONS

- Year fitter for map & bardout
- Tooltip will be shown when any idiom is horced over.



TITLE: ASSIGNMENTZ

AUTHOR. MALIHA TARIQ

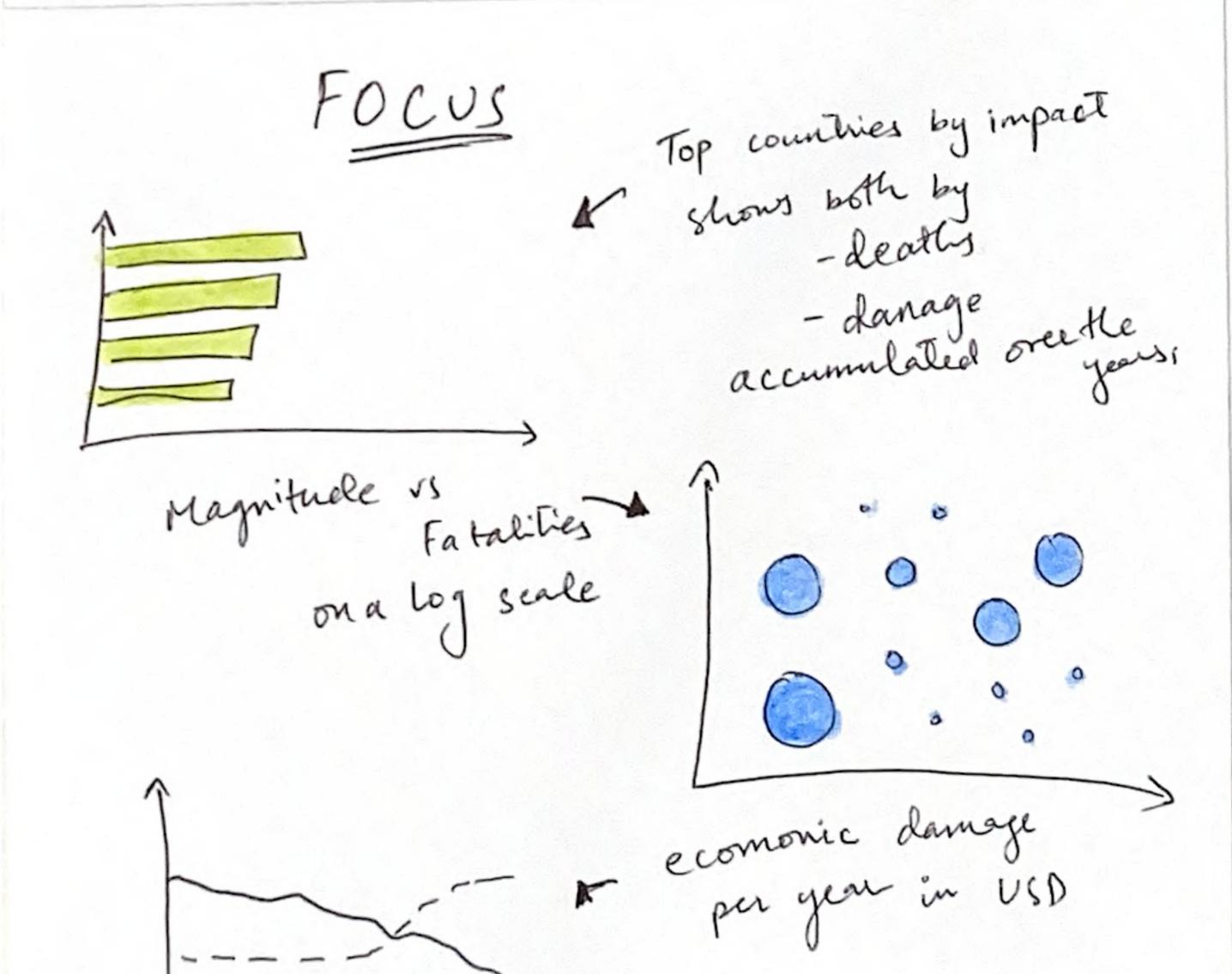
DATE: 22 - OCT - 25

SMEET: 4

OPERATIONS

- Year filter for chloropeth map, and for line chart.
- Toothe will be shown when hovering over any chart.
- add amnotations
- Min magnitude for the abboroplette graph

G ______ a



DISCUSSIONS

PROS :

- clear layout of visualization

- interactive features

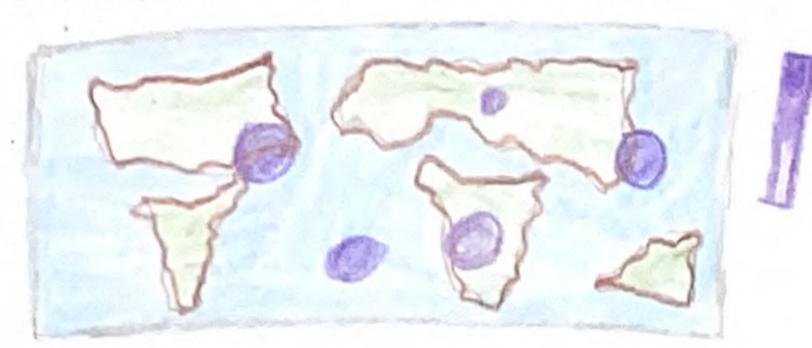
CONS:

- No text description provided so will be hard for users to interpret.

GLOBAL FARTHQUAKES

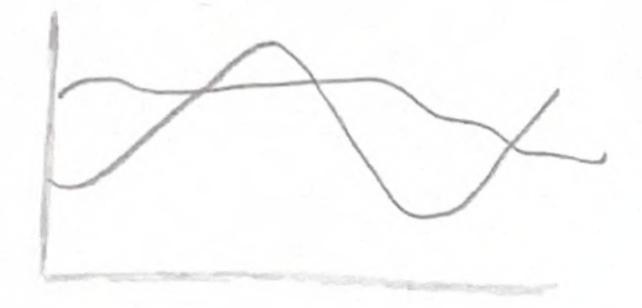
subtitle text

LOCATION OF EARTHQUAKE



Year filter ___ 2011 Min Magnitude -

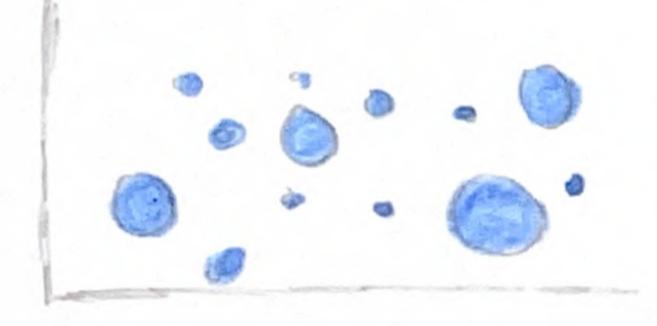
QUAKES PER YEAR



MAGNITUDE DISTRIBUTION



MAGNITUDE &S FATALITIES



TOP COUNTRIES BY IMPACT



META

YEARLY IMPACT TRENDS

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SHEET: 5

FOCUS

· each chart is separated into different subsection for better clarity.

· equal focus to every graph, but

OPERATION'S

- Year of Min. magnitude fitter for chloropleth

- deaths | damage drop down for "TOP COUNTRIES BY IMPACT" chart

- Tooltip for every chart shown when horeing over it.

DETAILS

DATASET:

- USGIS earthquake catalog

- NOAA significant earthquake database

- TOPOJSON File for map

DEPENDENCIES:

- JS, CSS for styles, HTML

- Github

EXTRAS:

Ortaset cleaning required = 1 day

TIME TO BUILD: 1 week/ 10 days