

SHEET 1:

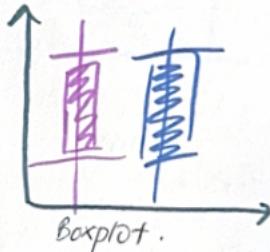
IDEAS:



Scatter plot /
Bubble Chart



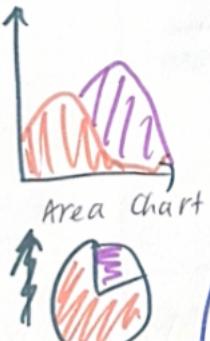
Line chart



Boxplot.



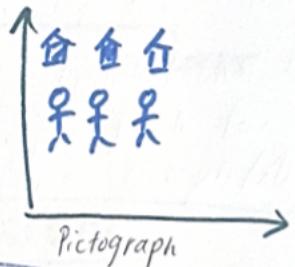
Sankey.



Area chart



Pie chart



Pictograph

Filter

(1) Boxplot: → not using time element.

→ does not show key attributes such as magnitude / duration.

(2) Pictograph: → not precise enough.

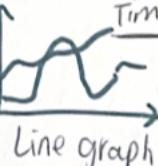
→ dealing with large values

→ can be misleading

(3) Sankey: → no flow in data.

→ visually too busy - too many countries etc.

CATEGORISE



Line graph



+ scatterplot



Line graph + Area graph

COMBINE & REFINED

Scatterplot + Stacked bar



QUESTIONS!

How would data be cleaned?
Limitations to Vega-Lit?

1 dimension

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SHEET2:

LAYOUT

TSUNAMIS

INTRO

MAP



Text

TRENDS OVER TIME



TEXT

Focus

Line graph:

↳ Shows the trends over time (1900 - 2025)

↳ Death toll

↳ Economic Impact

↳ Missing people

Map:

↳ Show where Tsunamis most often occur.

OPERATION

OPERATION MAP

Yong Hao Li
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Slider for the map to show the populated Tsunamis across the Years



DISCUSSION

PROS:

→ simple → easy to understand

→ Shows trends over time

→ Incorporates ~~is~~ interactivity with map

CONS:

→ Too simple, ~~not~~ doesn't show too many trends

→ Lack of Story telling

SHEET 3:

LAYOUT

TSUNAMIS

Intro:



Focus

Map

→ Focus on Australia and Tsunamis ~~in~~ in this one country.

Line graph / stacked bar / bubble chart

- ↳ Focus on time trends
- ↳ Each one shows Economic impact
- Fatalities

→ Missing people.

OPERATION



Yong Ho Li
33.H5443



104
483

A filter to show the countries that the user picks.
limits the number of countries shown.

DISCUSSION

PROS:

- Shows more information that may assist in the story telling aspect.
- Focuses on time trend
- Multiple visualisations can be linked together through interactivity.

CONS:

- Australia → ~~countries~~ doesn't/may not have that many Tsunamis → not valuable visualisation compared to a world map.

SHEET 4: LAYOUT

TSUNAMIS

Intro:



Focus

Map

Focuses on individual countries instead of just Australia. Tsunamis across time (1900-2015).

Area Map

Area = Amount of money spent on Tsunami recovery / per country.

Pie Chart

Distribution of demographic of Missing people / Fatalities visualisation
i.e. Age, Sex, Socio-Economic Status

OPERATION

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→ This filter alters all visualisations based on the country presented.
i.e. Data shown for 'India' if 'India' is selected on ~~for~~ Map, time trend visualisations, pie chart.

DISCUSSION

Pros:

→ Has a focus on every country in the world.
→ Time trends ~~can be~~ can be shown for each country.

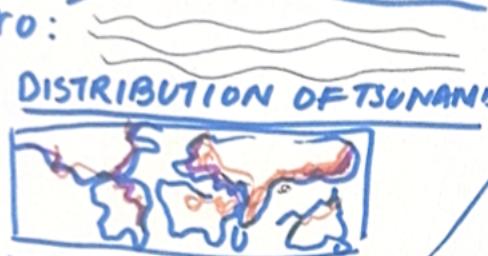
Cons:

→ Doesn't have a global focus even though focus on each country.
→ Interactivity may be too much ~~for~~ for every

SHEET 5 LAYOUT

GLOBAL TSUNAMIS

Intro:



DISTRIBUTION OF TSUNAMIS



IN FOCUS

MAP:

↳ Shows global distribution of Tsunamis over a specified period of time (from 1900 → present)

Scatter plot / Bar chart.

Shows the largest waves of all time (1900 - 2025)

→ This is ranked in the bar chart. Y-axis: Rank, X-axis: Wave Height

LINE / AREA:

Line graph shows fatalities
Area graph shows the economic impact

OPERATION

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31/100 slider for showing populated tsunamis across the world.

TOP 10/20/50 drop down menu showing Top N of waves and cause of the Tsunami.

Annotations at each major peak for the line graph/Area Chart

DETAILS

Planning & Design:

- Find datasets
 - clean datasets
 - Experiment with different visualisations
- ≈ 1 week.

Creating visualisations

- Total of 5 visualisations: 1 and a half weeks
- Text: Half a week