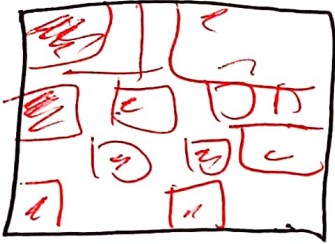


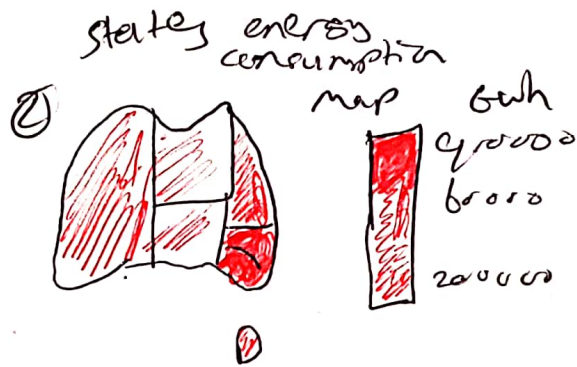
IDEAS

Energy consumption stats

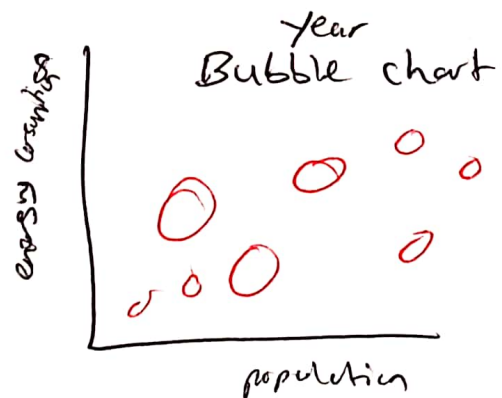
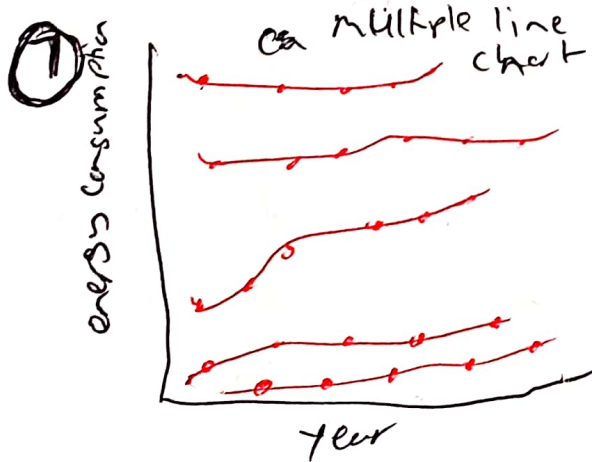
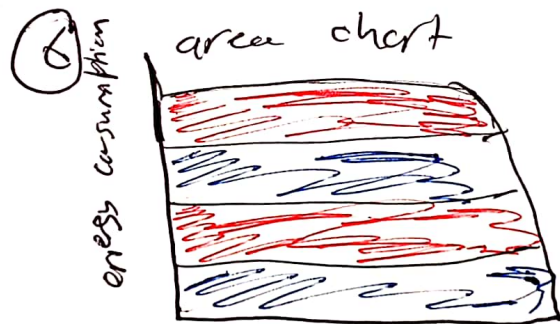
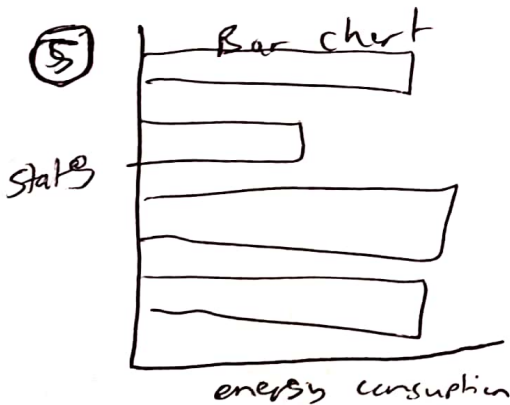
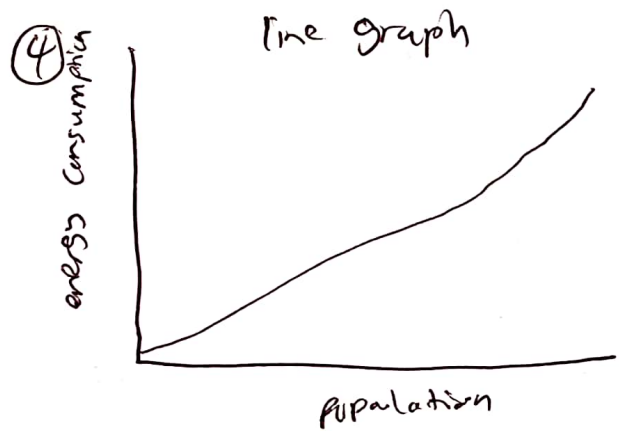
① population



state population
Heat map



③ Energy consumption per capita



Filter

Remove

Take out the Heat map as it is unnecessary seeing that I will have 2 maps. It will make things look strange on the dash board.

~~the~~ line graph vs multiple line chart. The line graph would just be able to show 1 state but with the multiple line chart I can see more states and overall it makes a good chart as all the states would be seen.

Make the bar chart more interactive and not just a plain bar chart - but add a slider at the bottom of the graph to make a better use of the graph and to be able to see through the years rather than have all the years clustered in one chart.

Author: A/yno

Date: 4/10/20

Sheet 1.

~~at~~

Categorize

- Distribution and Comparison
- Map - energy consumption
- break down
- stacked area chart
- highest state
- bar chart - population break down
- Comparative analysis
- Map - population vs energy consumption
- cumulative frequency distribution - frequency of energy consumption by state

Combine and Refine

- combine the bubble chart with the line graph to allow for a better comparison

LAYOUT

Australian states
energy consumption



→ This design visualise the geographic state distribution of the energy consumption across Australian states, with states highlighted based on their consumption over 2010 to 2023.

Focus

- geographic distribution
- The importance of this design focus on energy consumption on each state on a map is to highlight the difference of each state based on their energy consumption.

Components

- year selector - slider that users can use to see the energy consumption over the years for the states
- Legend - a color scale indicating energy consumption intensity.

Author - Albin

Date - 04/10/2024

sheet 3

operations

Users can hover over the map and see the state name, energy consumption and year.

pros

provides a clear visual representation of the states

- Easy to see which states are highest consumers

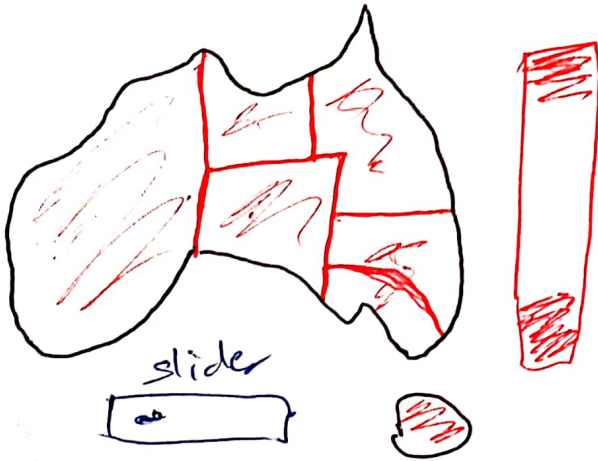
cons

Might generalise states

- Requires a legend to understand what's shown.

LH/041

Author - Albin
Date - 04/10/2024
Sheet - 4



→ This visualisation aims to show the relationship between energy consumption and population of each state

Pros

- provides a detailed insight into the energy consumption per capita for each state.
- Allows a detailed analysis of the states per capita consumption

Cons

- Users require a legend to understand how to read the map

Focus

→ main focus is to explore and explain how the states population can sway the energy consumption to get the per capita.

Components

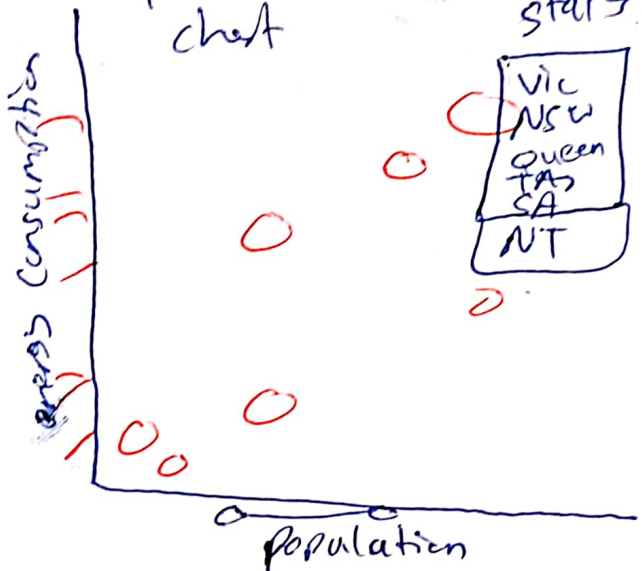
Map - main visualisation that represents the states, population and consumption.

- colour coding - a legend that allows the user to see the intensity of the per capita per state.

- A slider that allows the user to be able to search through the different years

LAYOUT

interactive bubble chart



This visualisation aims to show the relationship between population size and energy consumption across Australian states.

Focus

→ The main focus is to show that higher populated states are going to have a higher energy consumption. This crucial to understand why nappi was high interests of for NSW and ~~Ans~~ Vic.

Components

- bubble chart
 - main visualisation where dots represents energy consumption.
- legend - show the colors for each bubble or a state
- slider - can slide through the years.

Author - Rubina
Date - 04/10/24
sheet. 5

operations

uses can slide through the years 2010 - 2023.

Pros

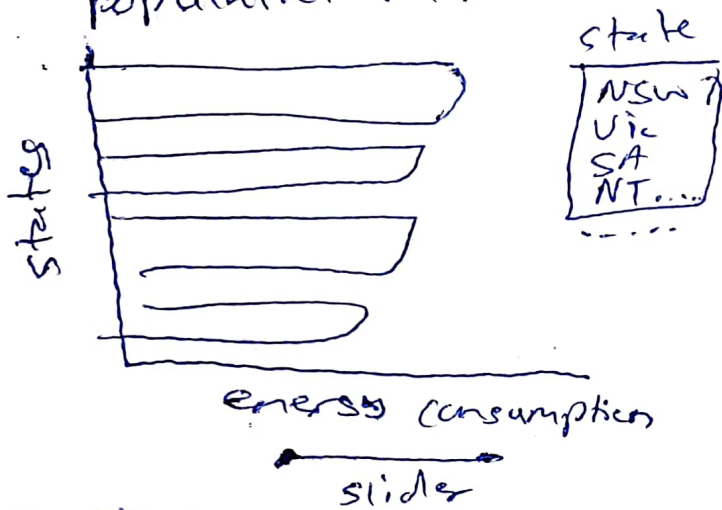
- provides insight into the correlation between state ~~popu~~ population and energy consumption
- uses can easily slide through to other years to see rather than just a clustered years.

cons

- ~~the~~ bubbles do not really move that much

LAYOUT

Bar chart with Interactive population filter.



→ This visualisation aims to show the relation between population size and ~~population~~ energy consumption. Allowing users to filter through using population.

Focus

The main focus of this is to focus on energy consumption by state based on their population size.

→ It focuses on bringing insight into how population levels influence the energy needs of that state.

Components.

Bar chart - The main visual where the 5 states are represented by a bar size depending on the energy consumption based on the population.

- legend shows the states color coded bars.

Author - Albino
Date - 04/10/24
Sheet 6

Components contin.

Slider

- users can slide through the population and adjust the bar of each state.

operation

Users can slide through the population to adjust the bar of each state depending on their energy consumption.

pros

- provides insight into how energy consumption can be influenced by population.
- A slider for quickly seeing which population number has the highest energy consumption.

cons

users need the legend to see which state is which.