

# IDEAS (KANGAROOS IN AUSTRALIA)

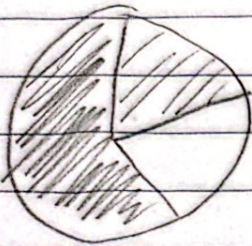
- Kangaroo Types
- Kangaroo sightings
- Kangaroo population
- Kangaroo harvesting in Australia?

different regions/zones

Scatter plot

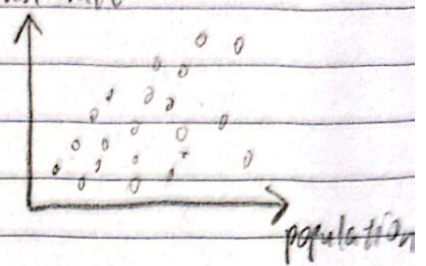
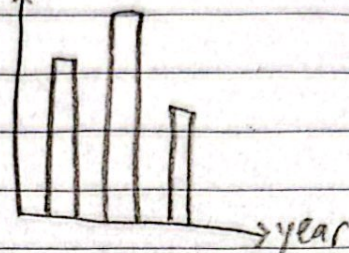
Harvest rate

pie chart



Distribution of kangaroo species

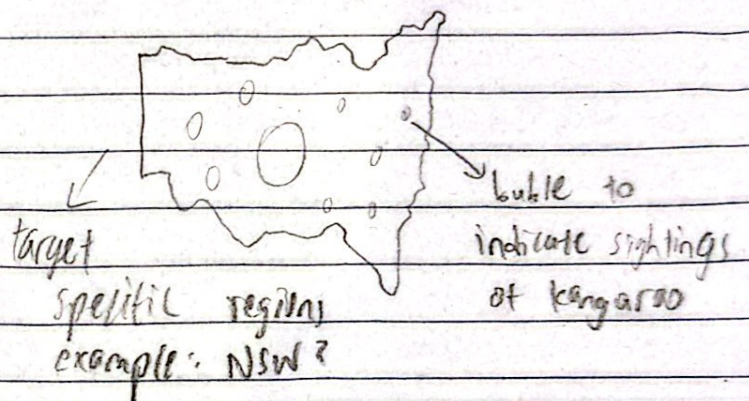
Bar chart  
population



## FILTER :

- Year
- Population
- Harvest amount?
- Quota
- Species / Gender
- Regions / Zone

Kangaroo Sightings



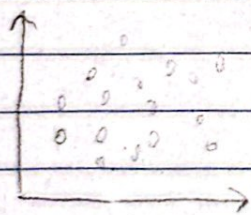
Combine & refine

Categorize:

- Kangaroo Map sightings
- ↓
- Kangaroo population vs Harvest
- ↓
- Kangaroo species population density
- ↓
- Kangaroo gender?

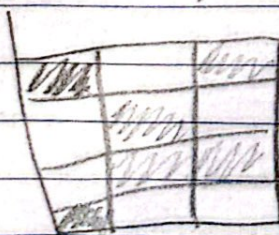
Questions:

- Target audience's interested topic?
- Are the diagrams above enough to cover our topics?



zones

incorporate  
regions/zone

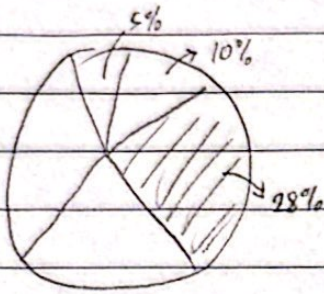


year

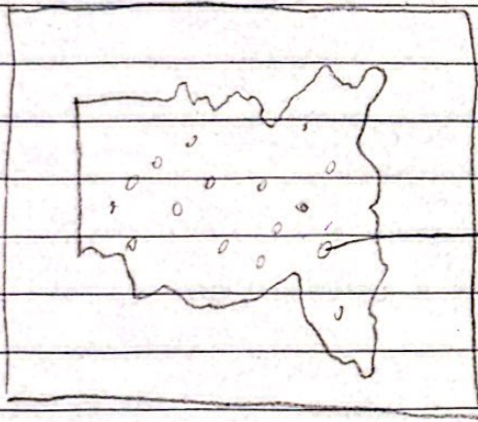


## LAYOUT

### PIE CHART

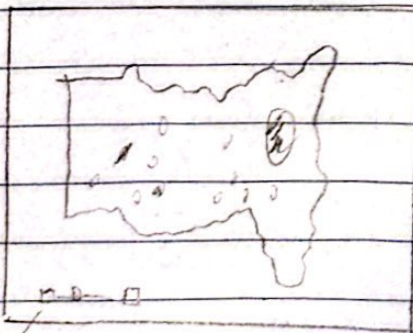


### MAP SIGHTINGS



Each mark  
represent  
a sighting  
of kangaroo

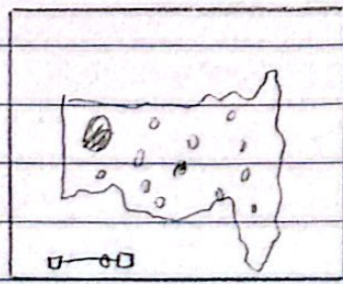
### Focus



Legend -  
Red kangaroo ●  
Western Grey kangaroo ○

slide for  
year

Different  
time series



title: Kangaroo Visualisation

Author: De Zheng Cheng

Date: 11/10/2024

SHEET: 2

TASK: Kangaroo Data in Australia

### OPERATIONS:

- when user clicks on the pie chart, highlight specific kangaroo species?

- A slider to check for kangaroo sightings over the year?

- User click on kangaroo type to show information and change other graphs?

### Discussions:

Users can choose which kangaroo type to explore:

- ↳ allows comparison of population, sightings of different species

- \* Do we want separate graphs for different species of kangaroos?

- ↳ pros: side by side comparison

- ↳ cons: Too much graphs to display

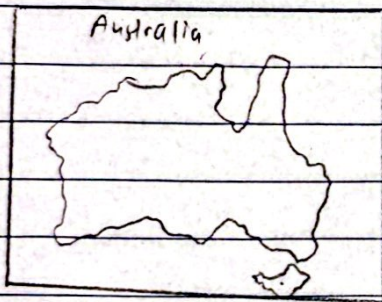
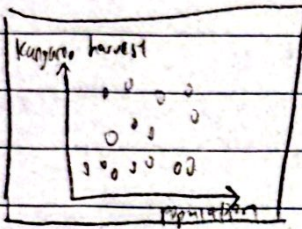
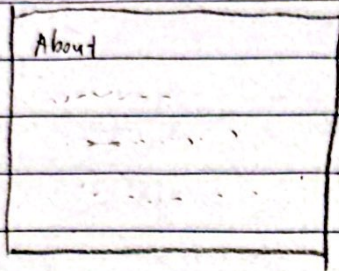


## LAYOUT

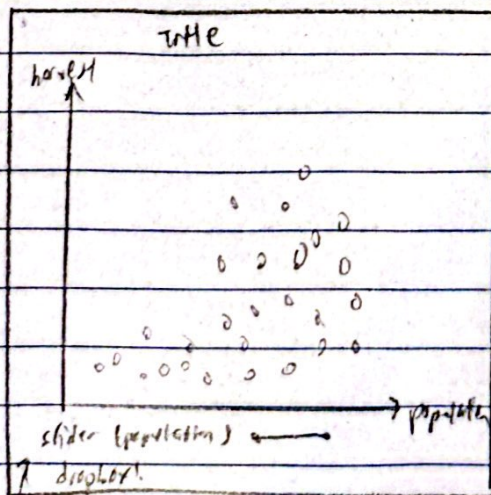
About

MAPS

Population



## Focus



control which data to show

Title : Kangaroo sightings

Author : De Zheng Chang

DATE : 11/10/2024

SHEET : 3

TASK : Kangaroo population

## OPERATIONS:-

- Buttons to navigate to different plots or section of our visualization
- Filters to check for a certain population threshold, harvest amount of kangaroos?

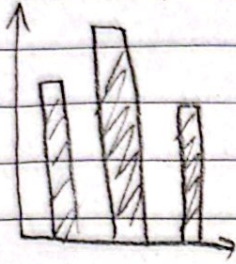
## Discussions:

- positives : Allows user to easily choose interested regions and find the relevant kangaroo species to explore.
- negatives : Cluttered scatter plot, too much points, hard to distinguish between kangaroos.
- solution?
  - Use more distinctive colour scheme.

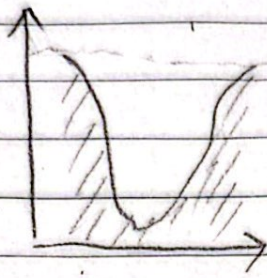


## LAYOUT

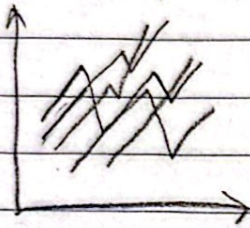
bar chart



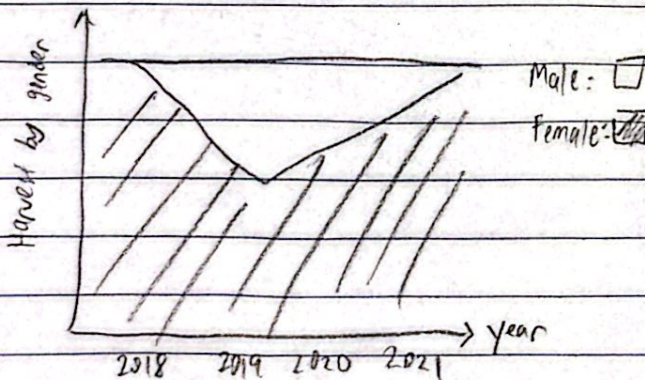
Area chart



Line graph



## Focus



Popdown box:

↳ zone

Kangaroo Type

Title: Kangaroo Visualisation

Author: De Zheny Chang

DATE: 11/10/2024

SHEET: 4

TASK: Kangaroo harvesting in Australia.

## OPERATIONS:

- Time series: Able to select which time region to highlight?
- Click on specific kangaroo to display and highlights to line/bar
- Display the distribution of population, harvesting rate or amount.

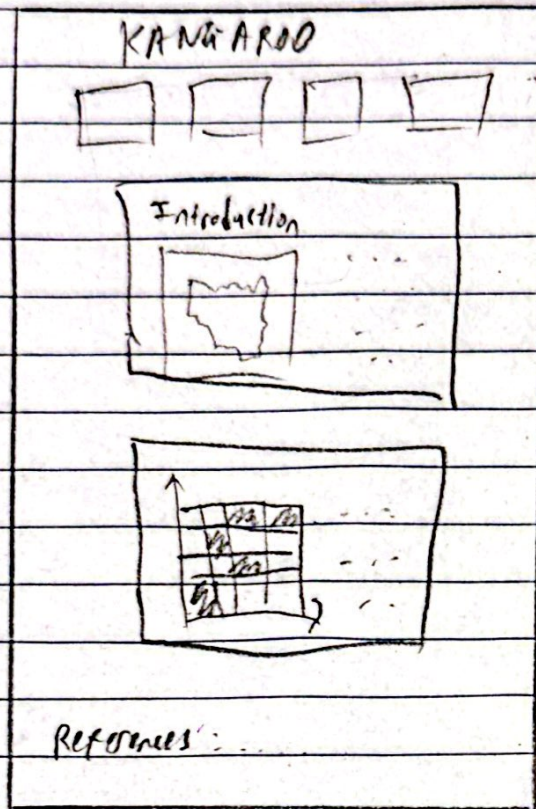
## DISCUSSIONS:

Pros: shows overall distribution of kangaroo harvest by gender.

Cons: - Hard to navigate through all the other kangaroo.  
- Hard to navigate to other regions.



## LAYOUT

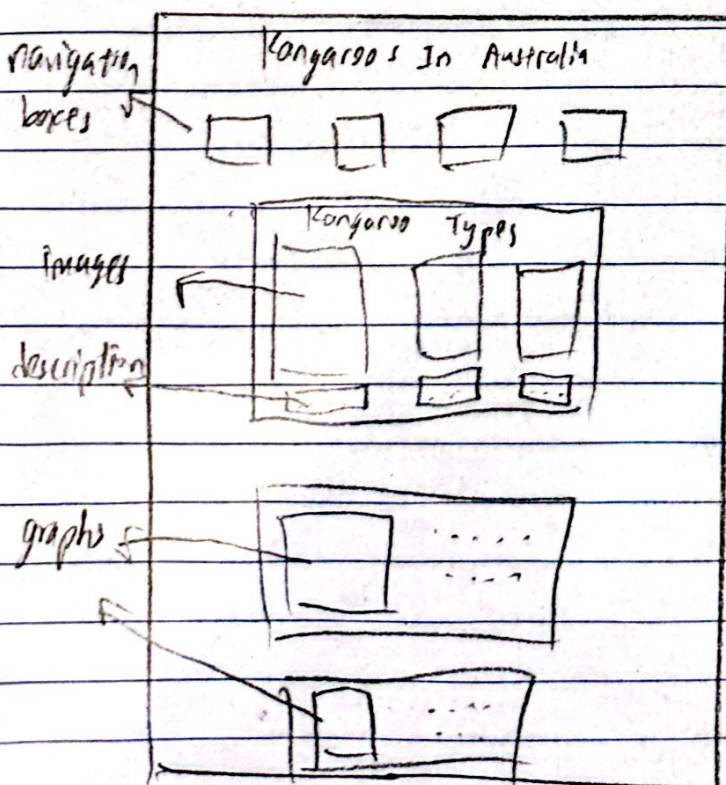


Title: Final dashboard  
 Author: DE ZHENG CHANG  
 DATE: 11/10/2024  
 SHEET: 5  
 TASK: Final representation  
 of dashboard

## OPERATIONS

- User selects on which section to navigate to in the visualisation.
- Each box represents a graph that is related to the kangaroo story we are conveying.

## Focus:



- Interactive sliders for user to explore in each graph.

## Discussions

- Implement the webpage online to showcase as a dashboard.  
 ↳ visualisation graph might change depending on data found online
- Data set should include kangaroo sightings, population at the minimum.