



## People's preference for adopting animals in Austin, the United States

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**Motivation:** There are millions of stray animals be rescued and then enter animal shelters each year, and not every single of them will be adopted. Some of them are transferred to another place while some will eventually be euthanized.

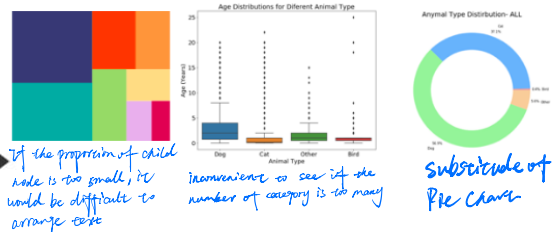
**Aim:** Let the audience know what characteristics of stray animals would make them easier to be adopted, so they can prioritize those animals with a low likelihood of being adopted and then make better plan for those animals, and make the shelters operate more efficiently.

# Sheet 1

## 1. Ideas



## 2. Filter



## 3. Categorize

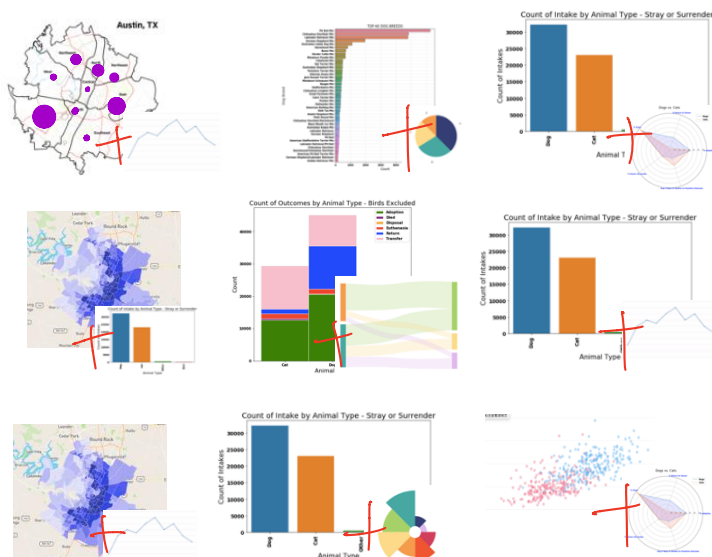
Spatial Maps



## 5. Question

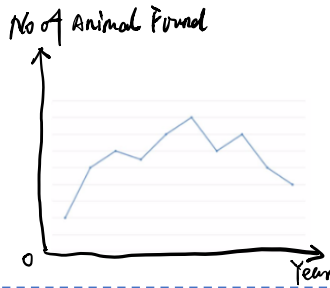
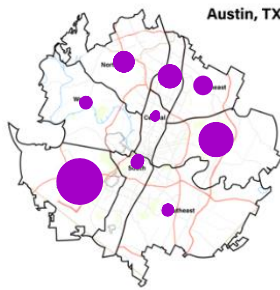
- How does the number of animals found in each part of Austin vary from year to year in terms of the different types of animals?
- What attributes of animals result in a higher likelihood of being euthanized based on their type, age, sex?
- According to the average duration of stay, what characteristics of different types of animals are more attractive for people to adopt them based on their age, sex, color?

## 4. Combine and Refine



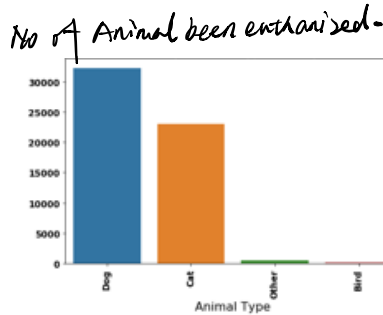
## Layout

TEXT



option button  
Dog Cat Other

TEXT

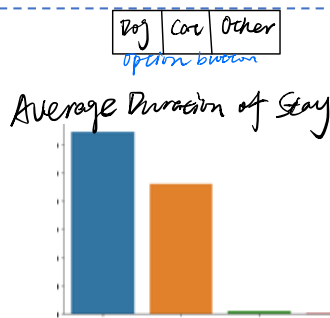


Choose one option

Select box ①



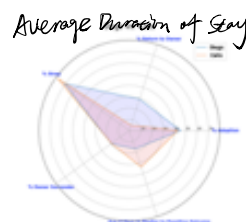
TEXT



option button  
Dog Cat Other

Choose one option

Select box ②



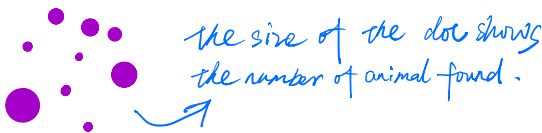
## Focus

Choose one option ①

choose from 'type', 'age' and 'sex'

Choose one option ②

choose from 'age', 'sex' and 'color'



Title: Visualization Project  
Author: Chenzhi Liao  
Date: Sep 13 2021  
Sheet: Sheet 2  
Task: Option 1

## Operations

Page 1: choose one type of animal from the button, then click any part of the map, a Line Chart will show how the number of that type of animal found by the shelter varies from year to year.

Page 2: choose one option from type, age and sex, the Bar Chart and Pie Chart will show the number and proportion of each attribution of animal been euthanized.

Page 3: choose one type of animal from the button, then choose one option from age, sex and color, the Bar Chart and Radar Chart will show the average duration of stay of each characteristic.

## Discussion

### Pros:

The Line Chart clearly shows the trend in which data varies from year to year.

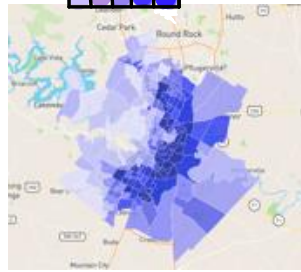
The Radar Chart supplements the differences between data of different types of animals. Line chart and bar chart are easy to read

### Cons:

Circles on the bubble map only shows the total number, but cannot show the change of data with different years

## Layout

TEXT



No of Animal Found.

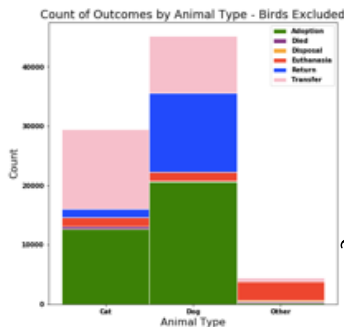


option button  
Dog Cat Other

No of Animal Found



TEXT



Choose one option ①  
Select box

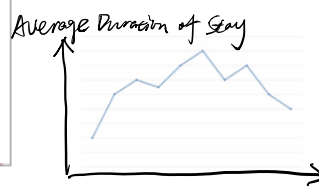
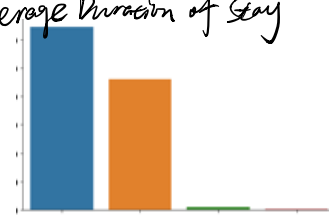


TEXT

option button  
Average Duration of Stay

Dog Cat Other

Choose one option ②  
Select box



## Focus

Choose one option ①

choose from 'type', 'age' and 'sex'

Choose one option ②

choose from 'age', 'sex' and 'color'

Title: Visualization Project  
Author: Chenzhi Liao  
Date: Sep 13 2021  
Sheet: Sheet 3  
Task: Option 2

## Operations

Page 1: choose one type of animal from the button, then click any part of the map, a Bar Chart will show how the number of that type of animal found by the shelter varies from year to year.

Page 2: choose one option from type, age and sex, the Stacked Bar Chart and Sankey Chart will show the number and proportion of each attribution of animal been euthanized.

Page 3: choose one type of animal from the button, then choose one option from age, sex and color, the Bar Chart and Line Chart will show the average duration of stay of

## Discussion

### Pros:

The Stacked Bar Chart and Sankey Chart can more clearly show how all the outcome condition of animals distribute into different attributions, while Option 1 only show the number and proportion of each attribution of animal been euthanized

### Cons:

The Bar Chart in Page 1 cannot show the trend that how the data varies from year to year

