

# Analysis of Austin, TX Animal Adoptions

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By Nathan Funckes

# Dataset

- Animal adoption center income and outcome data for Austin, TX
- Intake data file
- Outcome data file
- Gathered on 2/09/2022 from <https://data.austintexas.gov/>



# Data Management

- Took the intersection of the Intake and Outcome data files
- Transformed dates from strings to POSIXct date time format
- Created separate year and month columns
- Calculated time between Intake and Outcome
  - Removed observations where this time is less than 0 days



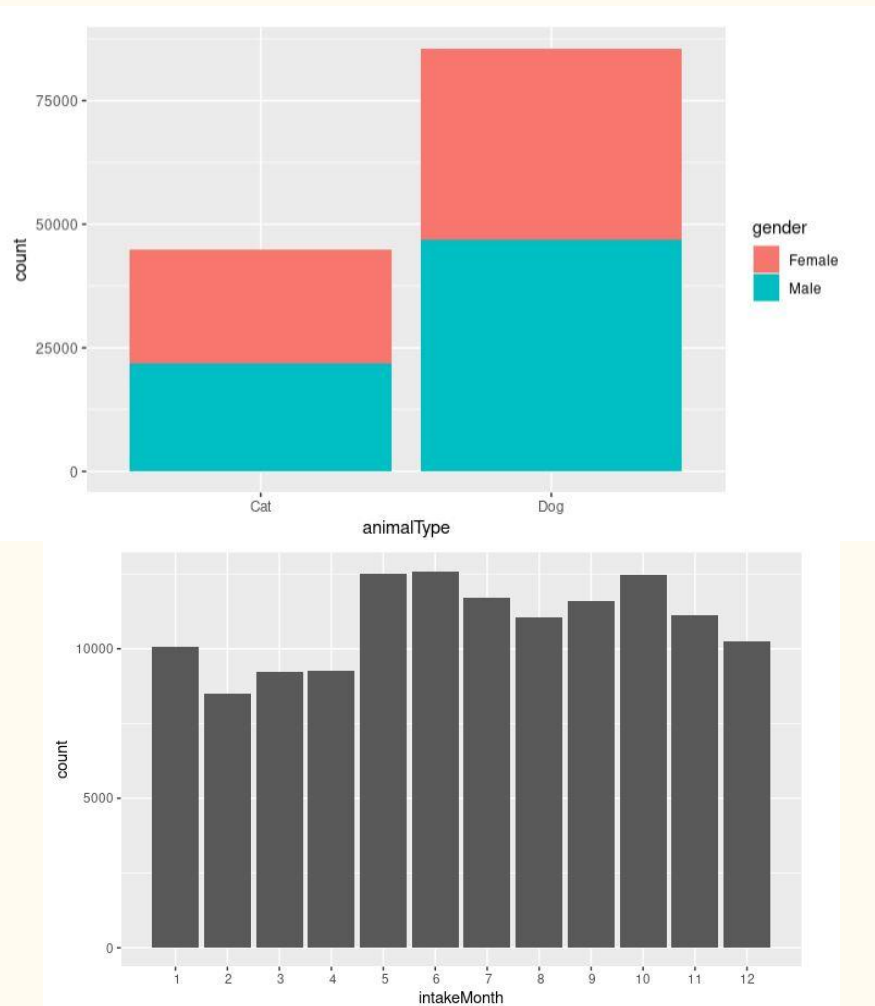
# Data Management

- Created bins for time between Intake and Outcome (lots of outliers)
- Created category bins for Intake and Outcome ages
- Extracted Gender Information
- Removed animals that aren't cats/dogs
- Removed non-complete cases



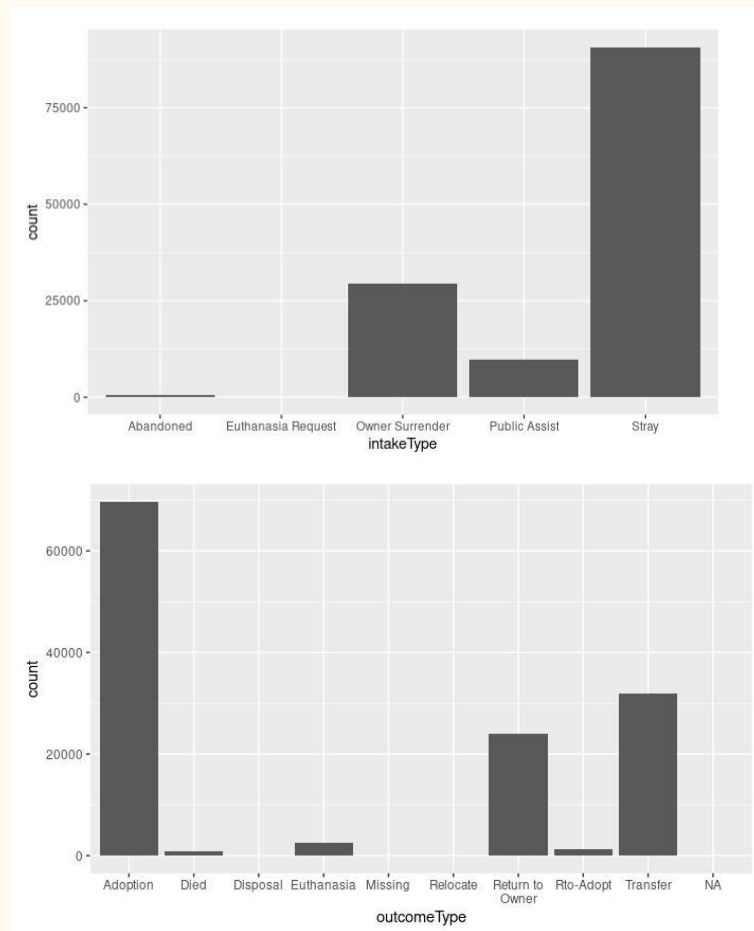
# EDA

- Almost twice as many dogs as cats in the data
- Gender pretty evenly distributed across animal type
- Summer and Fall more animals seem to be taken in than winter



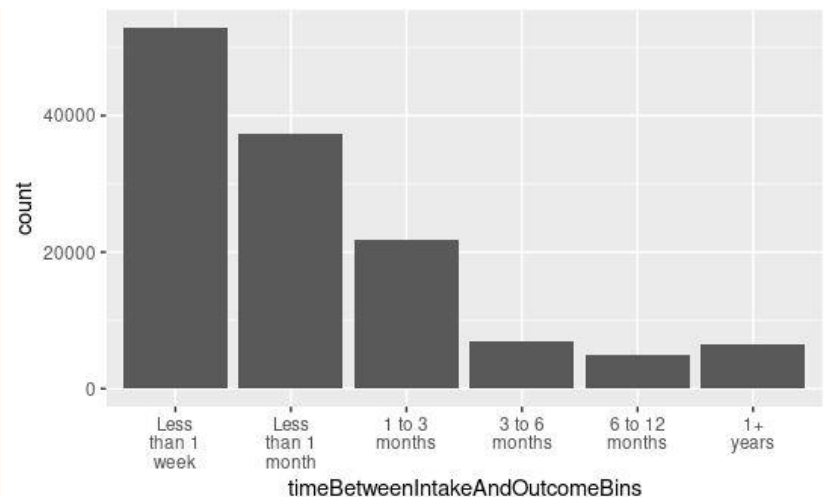
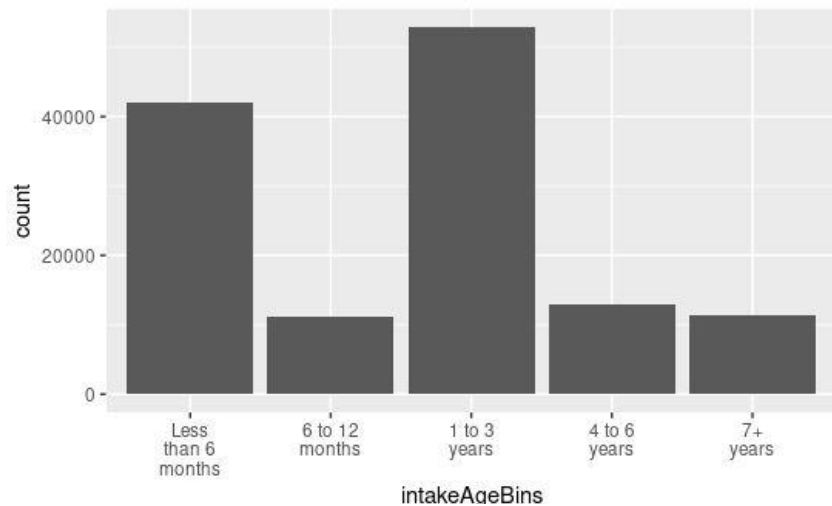
# EDA

- Most animals seem to come in as strays
- Most animals end up adopted :)



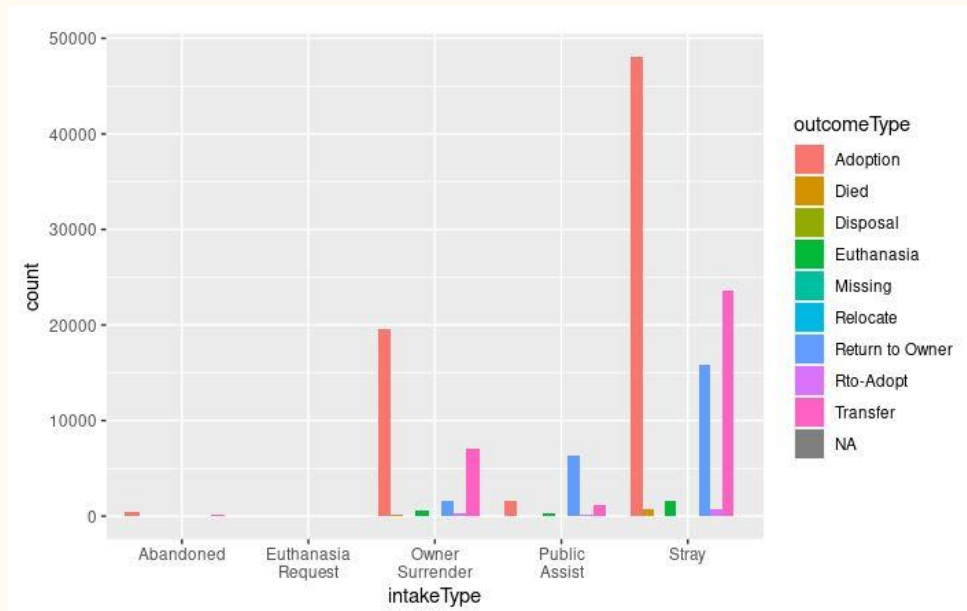
# EDA

- Most animals taken in are Less than 6 months old or 1-3 years old
  - Graph looks almost identical for outcomes ages
- Graph of time between intake and outcome is “skewed” right
- Most animal’s outcome occurs in less than a week



# Intake Type Separated by Outcome Type

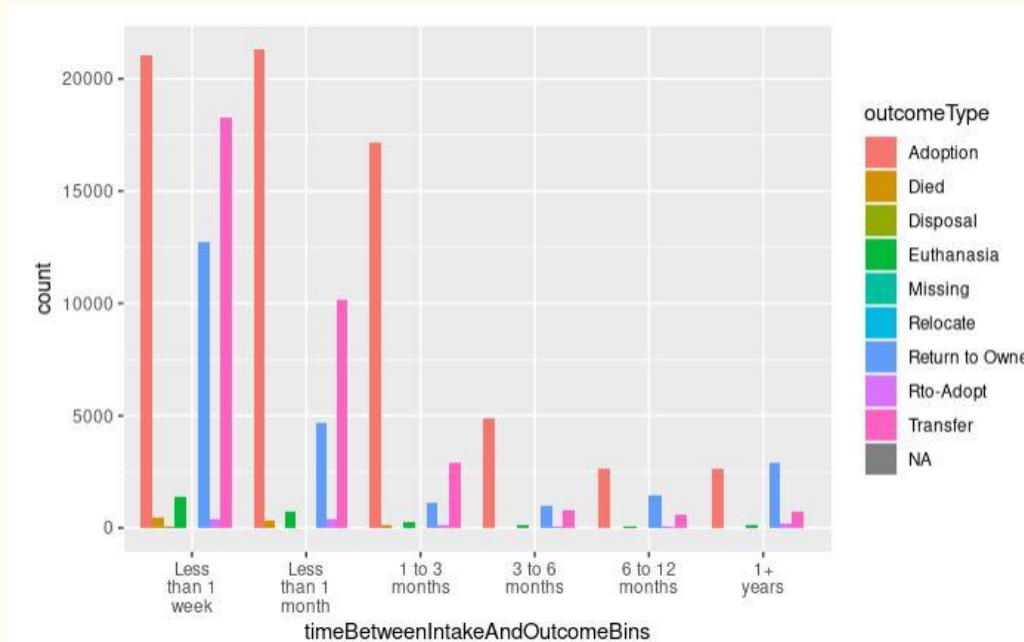
- Of the three intake types with a large number of observations “adoption” is the most frequent for all but public assist
- Public Assist most frequent outcome is “return to owner”
- Stray dogs/cats have the largest number of euthanasias





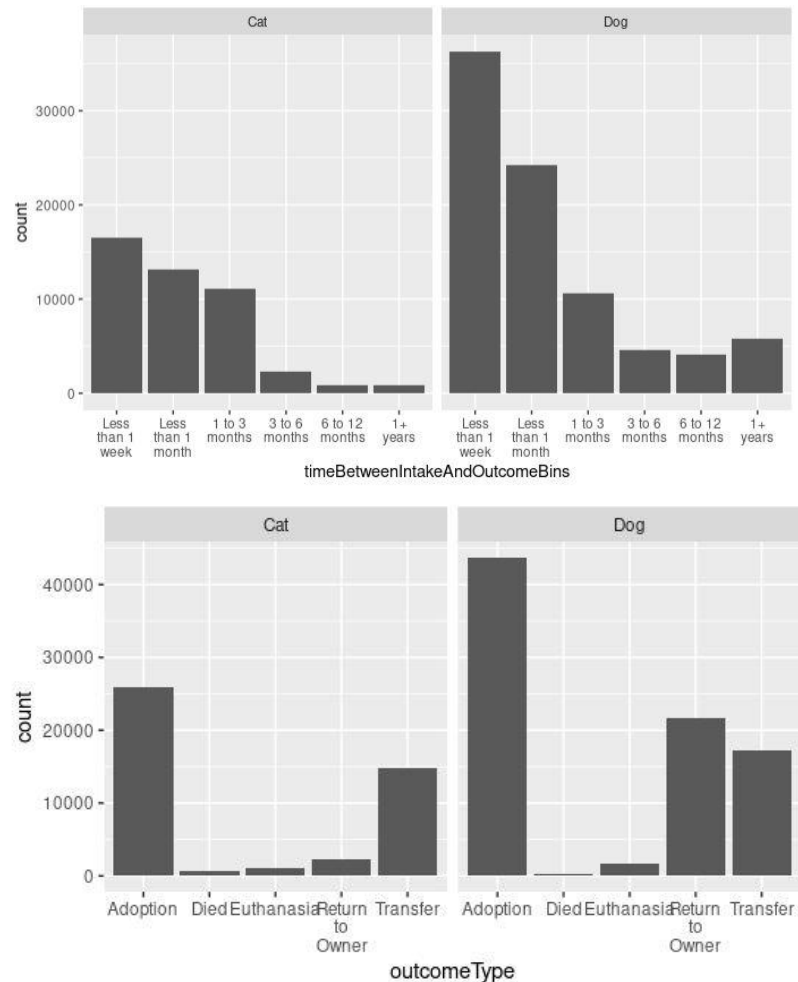
# Time Between Intake and Outcome separated by Outcome Type

- All outcome types occur most frequently in the first week
- Large proportion of outcomes that take place 1 or more years after intake are “return to owner” or “adoption”



# Cats vs Dogs

- Similar distribution of times between intake and outcome
- Dogs more frequently returned to owners than cats
- Cats are also transferred more frequently than dogs



Thanks for Listening

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# Image Links

<https://d17fnq9dkz9hgj.cloudfront.net/uploads/2021/09/29.jpeg>

[https://upload.wikimedia.org/wikipedia/commons/thumb/9/96/Street\\_intersection\\_diagram.svg/531px-Street\\_intersection\\_diagram.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/9/96/Street_intersection_diagram.svg/531px-Street_intersection_diagram.svg.png)

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<https://toursscanner.com/blog/wp-content/uploads/2021/07/things-to-do-in-Austin.jpg>

<https://news.orvis.com/wp-content/uploads/2019/08/stray.jpg>