# CSIS3360-001 Project Proposal



# Project Name: Trend of animal being shelter

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# Topic: Trend of animal being shelter

The Austin Animal Center is the largest no-kill animal shelter in the United States that provides care and shelter to over 18,000 animals each year and is involved in a range of county, city, and state-wide initiatives for the protection and care of abandoned, at-risk, and surrendered animals. The dataset contains shelter outcomes of several types of animals and breeds from 10/1/2013 to the present with an hourly time frequency. The data is updated daily.

# Description of problems:

* With this large set of data, we are able to identify the trend of why animal are sheltered such as what type of breed, age of animal, color which have the highest rate of being put into shelter. In addition, these physical appearance may also have an affect on the outcome of the any.
* By addressing this problem, we can come up with a solution to prevent sheltering rate as well helping shelter center to find a way to home current animal

# A research question and initial hypotheses:

Question:

* How does physical appearance affect the sheltering rate of an animal
* How does physical appearance affect the sheltering outcome of an animal

Initial Hypotheses:

* Animal that does not look cute, or old tend to be putting into the shelter

# Analytical approaches:

* Tableau: Data visualization tool. We are going to use this to quickly grouping different type of animal to quickly accessing our hypothesis
* R studio: Helpful to cluster analysis. We want to see if there are any share common trend that share between different physical type of animal that bring them to the shelter as well affecting the outcome.

# Description of the variables:

**age\_upon\_outcome**: Age of the animal at the time at which it left the shelter.

**animal\_type**: Cat, dog, or other (including at least one bat!).

**breed**: Animal breed. Many animals are generic mixed breeds, e.g. "Long-haired mix".

**Color**: Color of the animal's fur, if it has fur.

**Datetime**: Timestamp of outcome

**outcome\_subtype**: added information about outcome\_type

**outcome\_type**: Ultimate outcome for this animal. Possible entries include transferred, [mercy] euthanized, adopted.