# CSIS3360-001 Project Report



# Project Name: Trend of animal being shelter

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## Initial analysis

* Animal type

After counting the dataset by animal type, cat dog are the most animal types in the Austin Animal Center. Besides, the amount of dog is double of that of cat.

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* Animal type and color

We dig into colors with animal types as below to look for relationship between animal color and their amount. For birds, it does not show a strong relationship with colors. However, darker cats or dogs such as black, brown are the most type in the shelter. So, we can make a hypothesis that animals color is an important factor on whether they will be put into shelter.

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* Animal type and breed

As for animal’s breed, we focus on dog and cat because other animals have much less breeds than these two popular animals.

Obviously, breeds of cats affect a lot from the table. Domestic Shorthair Mix cat is the largest group in the animal center. Apart from that, all domestic breed cats no matter how long their hair is are more likely to be put in the shelter.

There is not that apparent difference of dog’s breed amount. So, we can assume breed of cats is one of reasons why they are living in animal center.

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* Outcome type

Animals’ outcomes in this shelter are adoption, died, disposal, euthanasia, missing, relocate, return to owner, transfer… Adoption is highly recommended by animal center for decreasing cost and improving animal’s life.

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* **Return to owner**

The table below is the amount of “return to owner” of different animal types. Dog is 12875 and cat is 1431 which means at least 29% of dogs in the shelter are lost and luckily found by their owners. But, only 4.8% of cats returned their home finally.

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* Outcome day

Here we calculate the age when animals get outcome. 0-1000 days takes up half of animals which is 3 approximately years age. Age older, following with less percentage.

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* Step conclusion

In our initial hypothesis, we predict animal that does not look cute, or old tend to be putting into the shelter. After this initial analysis, we find that younger animals are more likely to be put into the shelter instead of older animals. And appearance (color, breed) of animals do have an influence on whether they will be put into this animal center.