

About - Animal Outcomes

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Animal Outcomes Overview

Every year, approximately 7.6 million companion animals end up in US shelters. Many animals are given up as unwanted by their owners, while others are picked up after getting lost or taken out of cruelty situations. Many of these animals find forever families to take them home, but just as many are not so lucky. 2.7 million dogs and cats are euthanized in the US every year. The animal outcomes prediction uses a random forest model trained on historical data from the Austin Animal Center in Austin, Texas. This data can be downloaded [here](#).

A look at the data

Here is a sample of the original training data:

```
##   AnimalID   Name      DateTime   OutcomeType OutcomeSubtype
## 1  A671945 Hambone 2014-02-12 18:22:00 Return_to_owner      <NA>
## 2  A656520 Emily   2013-10-13 12:44:00   Euthanasia      Suffering
## 3  A686464 Pearce  2015-01-31 12:28:00   Adoption        Foster
## 4  A683430 <NA>  2014-07-11 19:09:00   Transfer        Partner
## 5  A667013 <NA>  2013-11-15 12:52:00   Transfer        Partner
## 6  A677334 Elsa   2014-04-25 13:04:00   Transfer        Partner
##   AnimalType SexuponOutcome AgeuponOutcome
## 1      Dog   Neutered Male      1 year
## 2      Cat   Spayed Female      1 year
## 3      Dog   Neutered Male      2 years
## 4      Cat   Intact Male      3 weeks
## 5      Dog   Neutered Male      2 years
## 6      Dog   Intact Female     1 month
##               Breed      Color
## 1      Shetland Sheepdog Mix Brown/White
## 2      Domestic Shorthair Mix Cream Tabby
## 3              Pit Bull Mix Blue/White
## 4      Domestic Shorthair Mix Blue Cream
## 5      Lhasa Apso/Miniature Poodle      Tan
## 6 Cairn Terrier/Chihuahua Shorthair Black/Tan
```