# Dataset:

This dataset consists of 101 animals from a zoo. There are 16 variables with various traits to describe the animals. The 7 Class Types are: Mammal, Bird, Reptile, Fish, Amphibian, Bug and Invertebrate. The purpose for this dataset is to be able to predict the classification of the animals, based upon the variables. It is the perfect dataset for those who are new to learning Machine Learning.

# Attribute Information: (name of attribute and type of value domain)

1. animal\_name: Unique for each instance
2. hair Boolean
3. feathers Boolean
4. eggs Boolean
5. milk Boolean
6. airborne Boolean
7. aquatic Boolean
8. predator Boolean
9. toothed Boolean
10. backbone Boolean
11. breathes Boolean
12. venomous Boolean
13. fins Boolean
14. legs Numeric (set of values: {0,2,4,5,6,8})
15. tail Boolean
16. domestic Boolean
17. catsize Boolean
18. class\_type Numeric (integer values in range [1,7])

The class.csv describes the dataset:

1. Class\_Number Numeric (integer values in range [1,7])
2. Number*Of*Animal*Species*In\_Class Numeric
3. Class\_Type character -- The actual word description of the class
4. Animal\_Names character -- The list of the animals that fall in the category of the class

# Acknowledgements

UCI Machine Learning: <https://archive.ics.uci.edu/ml/datasets/Zoo>

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# Inspiration

What are the best machine learning ensembles/methods for classifying these animals based upon the variables given?