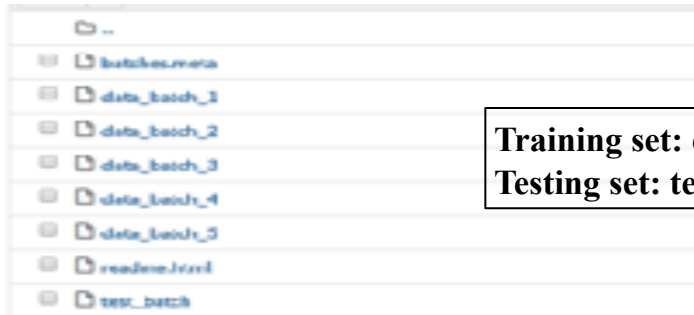


# Data Science Homework 3

Shih-Hong Tsai and Yu-Heng Hsieh

Goal: Train a model of which performance exceeds 75%

- 1. Download the dataset CIFAR-10 in <https://www.cs.toronto.edu/~kriz/cifar.html>

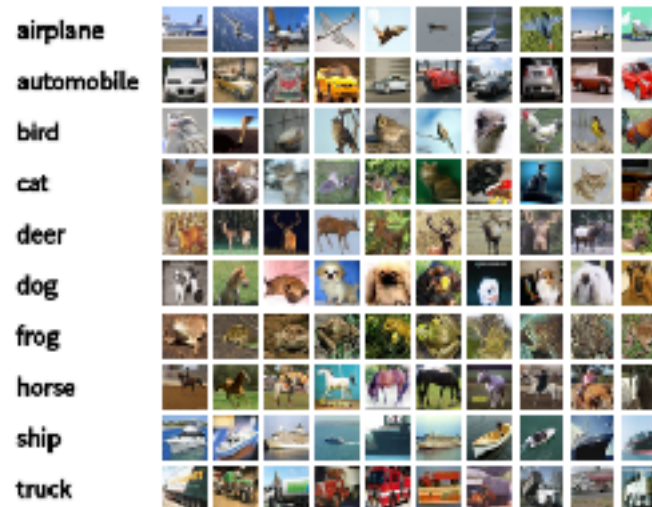


Training set: data\_batch\_1,2,3...  
Testing set: test\_batch

- 2. Split your training set into training and validation data, and construct a well-designed model to perform better than 75% on testing set

# CIFAR 10 dataset

- The CIFAR-10 dataset consists of 60000 32x32 colour images in 10 classes, with 6000 images per class. There are 50000 training images and 10000 test images.



# Submission

- hw3.zip
  - 1. report.pdf:
    - 1. Describe how you preprocess your data and the model architecture. (30%)
    - 2. Compare different architectures or parameters and record their performance (30%)
  - 2. screenshot.png: A screenshot of the best testing set accuracy on terminal. (20%)
  - 3. hw3.py: A script that you train and test your model (20%)