Imagenet

① Images → Labelled → Cat / Dog.
                                      10000 .
                                      Manually.

② training time.

2006   fei fi li

   20000 classes   Labelled Dataset

                     dog
                     breed }

  ← Boundry
                         Box.

   Crowd Sourcing   Amozen
                           Mechanical }
                           tool

Image Net   2010.
              └→ Data
                 Subset of Dataset
                 1000 classes.

LLSURC

Image Net Large scale visual Recognition
Challenge.
              2010, 2011   28 % , 25%.
         Machine Leaning

2012   94   AlexNET   gpu.
                        Relu.
Error Rate 16%.   CNN
                        Deep

2013   ZFNet   11. %.
2014   Ugg   7.3 %.   16/ 19
2015   google Net   G.7 %.
                              95%.
2016   ResNet   (3.5%)

Keras
  └→ URL