苹果官方模型: developer.apple.com/machine-learning 识别类ResNet50

模型学习iris.machine learning en.wikipedia.org/wiki/Iris\_flower\_data\_set

苹果开发网站get coreml tools

生成: mlmodel

www.anaconda.com/download下载conda

conda install python 2.7.13

conda create –name flowerrec开辟专案空间

easy\_install pip pip install –U coremltools //python里面用来安装包的指令

source activate flowerrec cd到这3个文件的文件夹

python import coremltools coreml\_model = coremltools.converters.caffe. convert(('oxford102.caffemodel', 'deploy.prototxt'), image\_input\_names='data', class\_labels='class\_labels.txt') coreml\_model.save('Flowers.mlmodel')

配置:

pip install keras==1.2.2 pip install --upgrade pip

pip install -U coremltools pip install tensorflow

pip install -U scikit-learn

Anaconda-Navigator spyder选择3.1.4

<https://developer.apple.com/documentation/coreml/converting_trained_models_to_core_ml> 训练相关

安装brew: <https://brew.sh/>

brew install -vd snappy leveldb giflags glog szip lmdb 报错用下面

for x in snappy leveldb gflags glog szip hdf5 lmdb homebrew/science/opencv;

do

brew uninstall $x;

brew install --fresh -vd $x;

done

brew uninstall --force protobuf; brew install --with-python --fresh -vd

protobuf

brew uninstall boost boost-python; brew install --fresh -vd boost boost-python

brew tap homebrew/science brew install hdf5 opencv

brew edit opencv

改DPYTHON\_LIBRARY=#{py\_prefi x}/lib/libpython2.7.dylib

DPYTHON\_INCLUDE\_DIR=#{py \_prefix}/include/python2.7

加入依赖包: brew install --build-from-source --with-python -vd protobuf

brew install --build-from-source -vd boost boost-python

去哪找模型<http://scikit-learn.org/stable/datasets/index.html> load\_iris

from sklearn import datasets #数据

from sklearn.linear\_model import LogisticRegression

from sklearn.externals import joblib #计算的东西导出

import coremltools

iris = datasets.load\_iris() #加载数据

model = LogisticRegression() #训练模型

model.fit(iris.data, iris.target) #喂数据

print 'prediction with the scikit iris model'

print iris.target\_names[model.predict([ [1.0, 2.0, 2.0, 3.0] ])] #预测

joblib.dump(model, ‘iris.pkl’) #导出

coreml\_model = coremltools.converters.sklearn.convert(model, iris.feature\_names, 'iris class')

coreml\_model.save('iris.mlmodel')