TensorFLow Object Detection

Protocol Buffers

1. Download latest protocol from link <https://github.com/google/protobuf/releases/tag/v3.5.1>
2. Unzip it (D:\some\_path\protoc-3.0.0-win32\bin) find .exe and add path in system variable.

Proto installation

1. In CMD go to parent directory object detection folder

e.g D:\Product\models-master\research

And run

protoc object\_detection/protos/\*.proto --python\_out=.

We need to give full path to protoc.exe

D:\Product\protoc-3.5.1-win32\bin\protoc object\_detection/protos/\*.proto --python\_out=.

If it will give error

object\_detection/protos/\*.proto: No such file or directory

That is because \*.proto means consider all proto files in protos directory, to solve run for individual file. (os.walk in directory and print this above command)

Label image

1. Label the Train and test image using labelimg.exe application with appropriate label.

Create A .csv file using all xml created at above step.

1. Search for Raccon dataset open github open and use xml\_to\_csv.py

python train.py --logtostderr --train\_dir = training/ --pipeline\_config\_path=faster\_rcnn\_inception\_resnet\_v2\_atrous\_coco.config

Model downloads

<https://github.com/tensorflow/models/blob/master/research/object_detection/g3doc/detection_model_zoo.md>