Preparing Inputs

TensorFlow Object Detection API reads data using the TFRecord file format. Two sample scripts (create_pascal_tf_record.py and create_pet_tf_record.py) are provided to convert from the PASCAL VOC dataset and Oxford-IIIT Pet dataset to TFRecords.

Generating the PASCAL VOC TFRecord files.

The raw 2012 PASCAL VOC data set is located here. To download, extract and convert it to TFRecords, run the following commands below:

You should end up with two TFRecord files named pascal_train.record and pascal_val.record in the tensorflow/models/research/ directory.

The label map for the PASCAL VOC data set can be found at object_detection/data/pascal_label_map.pbt

Generating the Oxford-IIIT Pet TFRecord files.

The Oxford-IIIT Pet data set is located here. To download, extract and convert it to TFRecords, run the following commands below:

You should end up with two 10-sharded TFRecord files named pet_faces_train.record-?????-of-00010 and pet_faces_val.record-?????-of-00010 in the tensorflow/models/research/directory.

The label map for the Pet dataset can be found at object_detection/data/pet_label_map.pbtxt.