**Configuring a Training Pipeline**

Using pre-trained models provided by TensorFlow

**ssd\_inception\_v2\_coco model**

- provides a relatively good trade-off between performance and speed, however there are a number of other models you can use, all of which are listed in TensorFlow’s detection model zoo.

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

- config file found here <https://github.com/tensorflow/models/tree/master/research/object_detection/samples/configs>

or in samples folder – [Tensorflow/models/samples]

1. **ssd\_inception\_v2\_coco.config [**located in folder- training\_demo/training**]**

\*\*this needs to be changed to reflect our paths to folders within the config file, batch size, etc…

2. Download the latest pre-trained NN for the model we choose, zip file

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

2 files that should be present in the pre-training folder:

1. -.tar.gz download
2. -extracted the zip file into folder- training\_demo/pre-trained-model

**Training the Model**

* Need the **train.py** script [Tensorflow/workspace/training\_demo] in order to start

python train.py --logtostderr --train\_dir=training/ --pipeline\_config\_path=training/ssd\_inception\_v2\_coco.config

example of running result:

