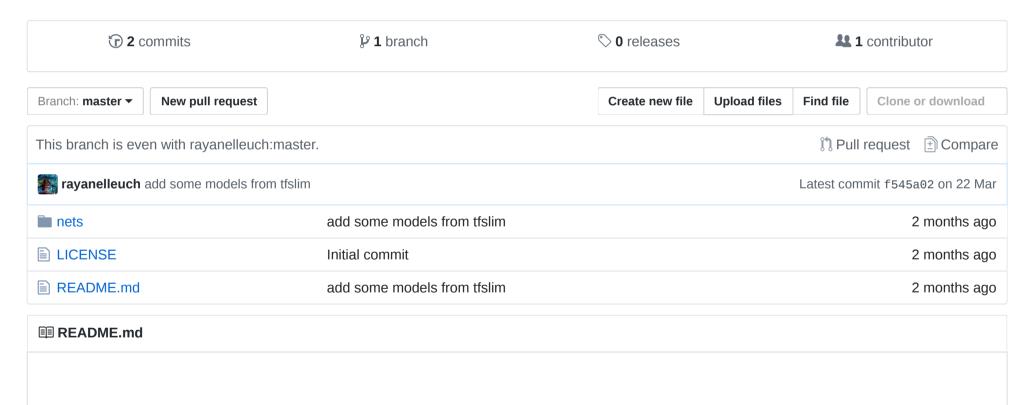


The purpose of this project is to reimplement the following paper: https://arxiv.org/pdf/1611.10012.pdf



Speed-accuracy-trade-offs-for-modern-convolutional-object-detectors

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Pre-trained Models

Neural nets work best when they have many parameters, making them powerful function approximators. However, this means they must be trained on very large datasets. Because training models from scratch can be a very computationally intensive process requiring days or even weeks, we provide various pre-trained models, as listed below. These CNNs have been trained on the ILSVRC-2012-CLS image classification dataset.

In the table below, we list each model, the corresponding TensorFlow model file, the link to the model checkpoint, and the top 1 and top 5 accuracy (on the imagenet test set). Note that the VGG and ResNet parameters have been converted from their original caffe formats (here and here), whereas the Inception parameters have been trained internally at Google. Also be aware that these accuracies were computed by evaluating using a single image crop. Some academic papers report higher accuracy by using multiple crops at multiple scales.

Model	TF-Slim File	Checkpoint	Top-1 Accuracy	Top-5 Accuracy
Inception V1	Code	inception_v1_2016_08_28.tar.gz	69.8	89.6
Inception V2	Code	inception_v2_2016_08_28.tar.gz	73.9	91.8
Inception V3	Code	inception_v3_2016_08_28.tar.gz	78.0	93.9
Inception V4	Code	inception_v4_2016_09_09.tar.gz	80.2	95.2
Inception-ResNet-v2	Code	inception_resnet_v2.tar.gz	80.4	95.3
ResNet 50	Code	resnet_v1_50.tar.gz	75.2	92.2
ResNet 101	Code	resnet_v1_101.tar.gz	76.4	92.9

Model	TF-Slim File	Checkpoint	Top-1 Accuracy	Top-5 Accuracy
ResNet 152	Code	resnet_v1_152.tar.gz	76.8	93.2
VGG 16	Code	vgg_16.tar.gz	71.5	89.8
VGG 19	Code	vgg_19.tar.gz	71.1	89.8

Here is an example of how to download the Inception V3 checkpoint:

- \$ CHECKPOINT_DIR=/tmp/checkpoints
- \$ mkdir \${CHECKPOINT_DIR}
- \$ wget http://download.tensorflow.org/models/inception_v3_2016_08_28.tar.gz
- \$ tar -xvf inception_v3_2016_08_28.tar.gz
- \$ mv inception_v3.ckpt \${CHECKPOINT_DIR}
- \$ rm inception_v3_2016_08_28.tar.gz

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