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2 contributors

43 lines (34 sloc)2.16 KB

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Tensorflow detection model zoo

We provide a collection of detection models pre-trained on the [COCO dataset](#). These models can be useful for out-of-the-box inference if you are interested in categories already in COCO (e.g., humans, cars, etc). They are also useful for initializing your models when training on novel datasets.

In the table below, we list each such pre-trained model including:

- a model name that corresponds to a config file that was used to train this model in the `samples/configs` directory,
- a download link to a tar.gz file containing the pre-trained model,
- model speed (one of {slow, medium, fast}),
- detector performance on COCO data as measured by the COCO mAP measure. Here, higher is better, and we only report bounding box mAP rounded to the nearest integer.
- Output types (currently only `Boxes`)

You can un-tar each tar.gz file via, e.g.,:

```
tar -xzf ssd_mobilenet_v1_coco.tar.gz
```

Inside the un-tar'ed directory, you will find:

- a graph proto (`graph.pbtxt`)
- a checkpoint (`model.ckpt.data-00000-of-00001` , `model.ckpt.index` , `model.ckpt.meta`)
- a frozen graph proto with weights baked into the graph as constants (`frozen_inference_graph.pb`) to be used for out of the box inference (try this out in the Jupyter notebook!)

Model name	Speed	COCO mAP	Outputs
ssd_mobilenet_v1_coco	fast	21	Boxes
ssd_inception_v2_coco	fast	24	Boxes
rfcn_resnet101_coco	medium	30	Boxes
faster_rcnn_resnet101_coco	medium	32	Boxes
faster_rcnn_inception_resnet_v2_atrous_coco	slow	37	Boxes