```
!pip install pyyaml==5.1

import torch
TORCH_VERSION = ".".join(torch.__version__.split(".")[:2])
CUDA_VERSION = torch.__version__.split("+")[-1]
print("torch: ", TORCH_VERSION, "; cuda: ", CUDA_VERSION)
# Install detectron2 that matches the above pytorch version
# See https://detectron2.readthedocs.io/tutorials/install.html for instructions
!pip install detectron2 -f https://dl.fbaipublicfiles.com/detectron2/wheels/$CUDA_VERSION/tor
# If there is not yet a detectron2 release that matches the given torch + CUDA version, you r
```

```
Collecting pyyaml==5.1
  Downloading PyYAML-5.1.tar.gz (274 kB)
        | 274 kB 5.2 MB/s
Building wheels for collected packages: pyyaml
  Building wheel for pyyaml (setup.py) ... done
  Created wheel for pyyaml: filename=PyYAML-5.1-cp37-cp37m-linux x86 64.whl size=44092
  Stored in directory: /root/.cache/pip/wheels/77/f5/10/d00a2bd30928b972790053b5de0c703
Successfully built pyyaml
Installing collected packages: pyyaml
 Attempting uninstall: pyvaml
    Found existing installation: PyYAML 3.13
   Uninstalling PyYAML-3.13:
     Successfully uninstalled PyYAML-3.13
Successfully installed pyyaml-5.1
torch: 1.10; cuda: cu111
Looking in links: https://dl.fbaipublicfiles.com/detectron2/wheels/cu111/torch1.10/inde
Collecting detectron2
  Downloading <a href="https://dl.fbaipublicfiles.com/detectron2/wheels/cu111/torch1.10/detectro">https://dl.fbaipublicfiles.com/detectron2/wheels/cu111/torch1.10/detectro</a>
                        7.0 MB 863 kB/s
Collecting yacs>=0.1.8
  Downloading yacs-0.1.8-py3-none-any.whl (14 kB)
Collecting black==21.4b2
  Downloading black-21.4b2-py3-none-any.whl (130 kB)
          130 kB 5.3 MB/s
Requirement already satisfied: pydot in /usr/local/lib/python3.7/dist-packages (from de
Requirement already satisfied: future in /usr/local/lib/python3.7/dist-packages (from d
Requirement already satisfied: termcolor>=1.1 in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: pycocotools>=2.0.2 in /usr/local/lib/python3.7/dist-pack
Requirement already satisfied: tqdm>4.29.0 in /usr/local/lib/python3.7/dist-packages (f
Collecting omegaconf>=2.1
  Downloading omegaconf-2.1.1-py3-none-any.whl (74 kB)
        74 kB 3.0 MB/s
Requirement already satisfied: tensorboard in /usr/local/lib/python3.7/dist-packages (f
Collecting hydra-core>=1.1
  Downloading hydra core-1.1.1-py3-none-any.whl (145 kB)
       | 145 kB 41.5 MB/s
Requirement already satisfied: cloudpickle in /usr/local/lib/python3.7/dist-packages (f
Requirement already satisfied: tabulate in /usr/local/lib/python3.7/dist-packages (from
Collecting fvcore<0.1.6,>=0.1.5
  Downloading fvcore-0.1.5.post20211023.tar.gz (49 kB)
       49 kB 5.5 MB/s
Requirement already satisfied: Pillow>=7.1 in /usr/local/lib/python3.7/dist-packages (f
Requirement already satisfied: matplotlib in /usr/local/lib/python3.7/dist-packages (fr
Collecting iopath<0.1.10,>=0.1.7
  Downloading iopath-0.1.9-py3-none-any.whl (27 kB)
Requirement already satisfied: appdirs in /usr/local/lib/python3.7/dist-packages (from
Collecting pathspec<1,>=0.8.1
  Downloading pathspec-0.9.0-py2.py3-none-any.whl (31 kB)
Requirement already satisfied: toml>=0.10.1 in /usr/local/lib/python3.7/dist-packages (
Collecting mypy-extensions>=0.4.3
  Downloading mypy extensions-0.4.3-py2.py3-none-any.whl (4.5 kB)
Collecting regex>=2020.1.8
  Downloading regex-2021.11.10-cp37-cp37m-manylinux_2_17_x86_64.manylinux2014_x86_64.wh
       | 749 kB 41.2 MB/s
Requirement already satisfied: typing-extensions>=3.7.4 in /usr/local/lib/python3.7/dis
Requirement already satisfied: click>=7.1.2 in /usr/local/lib/python3.7/dist-packages (
Collecting typed-ast>=1.4.2
```

```
Downloading typed_ast-1.5.0-cp37-cp37m-manylinux_2_5_x86_64.manylinux1_x86_64.manylin
               843 kB 32.2 MB/s
     Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from fv
     Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.7/dist-packages (f
     Collecting antlr4-python3-runtime==4.8
       Downloading antlr4-python3-runtime-4.8.tar.gz (112 kB)
             112 kB 48.8 MB/s
     Requirement already satisfied: importlib-resources in /usr/local/lib/python3.7/dist-pac
     Collecting portalocker
       Downloading portalocker-2.3.2-py2.py3-none-any.whl (15 kB)
     Requirement already satisfied: cython>=0.27.3 in /usr/local/lib/python3.7/dist-packages
     Requirement already satisfied: setuptools>=18.0 in /usr/local/lib/python3.7/dist-packag
     Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-pa
     Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (
     Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in /usr/local/l
     Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packa
     Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.7/dist-packages (from
     Requirement already satisfied: zipp>=3.1.0 in /usr/local/lib/python3.7/dist-packages (f
     Requirement already satisfied: wheel>=0.26 in /usr/local/lib/python3.7/dist-packages (f
     Requirement already satisfied: requests<3,>=2.21.0 in /usr/local/lib/python3.7/dist-pac
     Requirement already satisfied: absl-ny>=0 4 in /usr/local/lih/nython3 7/dist-nackages (
import detectron2
from detectron2.utils.logger import setup logger
setup logger()
# import some common libraries
import numpy as np
import os, json, cv2, random
from google.colab.patches import cv2 imshow
# import some common detectron2 utilities
from detectron2 import model zoo
from detectron2.engine import DefaultPredictor
from detectron2.config import get cfg
from detectron2.utils.visualizer import Visualizer
from detectron2.data import MetadataCatalog, DatasetCatalog
from detectron2.evaluation import PascalVOCDetectionEvaluator
     Building ubaala Kan aallaabad maabaaaa. Kusama sabbad muubaaa
!wget http://host.robots.ox.ac.uk/pascal/VOC/voc2007/VOCtrainval_06-Nov-2007.tar
!tar -xvf VOCtrainval 06-Nov-2007.tar
     vucaevkit/vuczuu//segmentationubject/uub/zz.png
     VOCdevkit/VOC2007/SegmentationObject/008747.png
     VOCdevkit/VOC2007/SegmentationObject/008764.png
     VOCdevkit/VOC2007/SegmentationObject/008801.png
     VOCdevkit/VOC2007/SegmentationObject/008815.png
     VOCdevkit/VOC2007/SegmentationObject/008927.png
     VOCdevkit/VOC2007/SegmentationObject/008932.png
     VOCdevkit/VOC2007/SegmentationObject/008944.png
     VOCdevkit/VOC2007/SegmentationObject/008948.png
     VOCdevkit/VOC2007/SegmentationObject/008973.png
     VOCdevkit/VOC2007/SegmentationObject/008980.png
     VOCdevkit/VOC2007/SegmentationObject/009015.png
     VOCdevkit/VOC2007/SegmentationObject/009068.png
     VOCdevkit/VOC2007/SegmentationObject/009209.png
```

```
VUCaevkit/VUCZ00//SegmentationUDject/009221.png
VOCdevkit/VOC2007/SegmentationObject/009245.png
VOCdevkit/VOC2007/SegmentationObject/009251.png
VOCdevkit/VOC2007/SegmentationObject/009252.png
VOCdevkit/VOC2007/SegmentationObject/009295.png
VOCdevkit/VOC2007/SegmentationObject/009323.png
VOCdevkit/VOC2007/SegmentationObject/009327.png
VOCdevkit/VOC2007/SegmentationObject/009331.png
VOCdevkit/VOC2007/SegmentationObject/009348.png
VOCdevkit/VOC2007/SegmentationObject/009392.png
VOCdevkit/VOC2007/SegmentationObject/009413.png
VOCdevkit/VOC2007/SegmentationObject/009419.png
VOCdevkit/VOC2007/SegmentationObject/009422.png
VOCdevkit/VOC2007/SegmentationObject/009446.png
VOCdevkit/VOC2007/SegmentationObject/009458.png
VOCdevkit/VOC2007/SegmentationObject/009464.png
VOCdevkit/VOC2007/SegmentationObject/009527.png
VOCdevkit/VOC2007/SegmentationObject/009533.png
VOCdevkit/VOC2007/SegmentationObject/009550.png
VOCdevkit/VOC2007/SegmentationObject/009562.png
VOCdevkit/VOC2007/SegmentationObject/009580.png
VOCdevkit/VOC2007/SegmentationObject/009597.png
VOCdevkit/VOC2007/SegmentationObject/009605.png
VOCdevkit/VOC2007/SegmentationObject/009618.png
VOCdevkit/VOC2007/SegmentationObject/009649.png
VOCdevkit/VOC2007/SegmentationObject/009654.png
VOCdevkit/VOC2007/SegmentationObject/009655.png
VOCdevkit/VOC2007/SegmentationObject/009684.png
VOCdevkit/VOC2007/SegmentationObject/009687.png
VOCdevkit/VOC2007/SegmentationObject/009691.png
VOCdevkit/VOC2007/SegmentationObject/009706.png
VOCdevkit/VOC2007/SegmentationObject/009709.png
VOCdevkit/VOC2007/SegmentationObject/009724.png
VOCdevkit/VOC2007/SegmentationObject/009756.png
VOCdevkit/VOC2007/SegmentationObject/009764.png
VOCdevkit/VOC2007/SegmentationObject/009794.png
VOCdevkit/VOC2007/SegmentationObject/009807.png
VOCdevkit/VOC2007/SegmentationObject/009832.png
VOCdevkit/VOC2007/SegmentationObject/009841.png
VOCdevkit/VOC2007/SegmentationObject/009897.png
VOCdevkit/VOC2007/SegmentationObject/009911.png
VOCdevkit/VOC2007/SegmentationObject/009923.png
VOCdevkit/VOC2007/SegmentationObject/009938.png
VOCdevkit/VOC2007/SegmentationObject/009947.png
VOCdevkit/VOC2007/SegmentationObject/009950.png
```

!mv VOCdevkit datasets

Train model merge_from_file --> Choose model architecture (Retinanet)

Datasets.TRAIN ---> Training dataset (Pascal VOC)

model_zoo.get_checkpoint_url---> Weights initialization from pre-trained network

SOLVER.BASE_LR ---> learning rate

SOLVER.MAX_ITER ---> number of iterations

```
MODEL.RETINANET.BATCH_SIZE_PER_IMAGE ---> Batch_size
```

trainer.train() ---> start the training (Fine tuning the network)

```
from detectron2.engine import DefaultTrainer
cfg = get_cfg()
cfg.merge_from_file(model_zoo.get_config_file("COCO-Detection/retinanet_R_50_FPN_3x.yaml"))
cfg.OUTPUT DIR = 'MyVOCTraining'
cfg.DATASETS.TRAIN = ("voc_2007_train",)
cfg.DATASETS.TEST = ()
cfg.DATALOADER.NUM_WORKERS = 1
cfg.MODEL.WEIGHTS = model zoo.get checkpoint url("COCO-Detection/retinanet R 50 FPN 3x.yaml")
cfg.SOLVER.IMS_PER_BATCH = 1
cfg.SOLVER.BASE LR = 0.00025 # pick a good LR
cfg.SOLVER.MAX ITER = 3000
cfg.MODEL.RETINANET.BATCH_SIZE_PER_IMAGE = 128
cfg.MODEL.RETINANET.NUM CLASSES = 20
os.makedirs(cfg.OUTPUT DIR, exist ok=True)
trainer = DefaultTrainer(cfg)
trainer.resume_or_load(resume=False)
trainer.train()
     [11/19 08:38:30 d2.utils.events]:
                                       eta: 0:12:45 iter: 1919 total loss: 0.2129
                                                                                    los 🔺
     [11/19 08:38:44 d2.utils.events]:
                                       eta: 0:12:31 iter: 1939 total_loss: 0.2919
                                                                                    los
     [11/19 08:38:58 d2.utils.events]: eta: 0:12:17 iter: 1959 total loss: 0.2379
                                                                                    los
     [11/19 08:39:12 d2.utils.events]: eta: 0:12:03 iter: 1979 total loss: 0.2658
                                                                                    los
     [11/19 08:39:27 d2.utils.events]: eta: 0:11:49 iter: 1999 total loss: 0.3016
                                                                                    los
     [11/19 08:39:41 d2.utils.events]: eta: 0:11:36 iter: 2019 total loss: 0.2641
                                                                                    los
     [11/19 08:39:55 d2.utils.events]: eta: 0:11:21 iter: 2039 total loss: 0.2338
                                                                                    los
     [11/19 08:40:08 d2.utils.events]: eta: 0:11:06 iter: 2059 total loss: 0.2993
                                                                                    los
     [11/19 08:40:22 d2.utils.events]: eta: 0:10:53 iter: 2079 total loss: 0.3463
                                                                                    los
     [11/19 08:40:36 d2.utils.events]: eta: 0:10:38 iter: 2099 total loss: 0.3529
                                                                                    los
     [11/19 08:40:50 d2.utils.events]: eta: 0:10:22 iter: 2119 total loss: 0.3833
                                                                                    los
     [11/19 08:41:04 d2.utils.events]: eta: 0:10:08 iter: 2139 total loss: 0.2403
                                                                                    los
     [11/19 08:41:17 d2.utils.events]: eta: 0:09:53 iter: 2159 total loss: 0.2012
                                                                                    los
     [11/19 08:41:31 d2.utils.events]: eta: 0:09:38 iter: 2179 total loss: 0.2124
                                                                                    los
     [11/19 08:41:45 d2.utils.events]: eta: 0:09:23 iter: 2199 total loss: 0.2053 los
     [11/19 08:41:58 d2.utils.events]: eta: 0:09:08 iter: 2219 total loss: 0.241 loss
     [11/19 08:42:11 d2.utils.events]: eta: 0:08:53 iter: 2239 total loss: 0.2612
                                                                                    los
     [11/19 08:42:25 d2.utils.events]: eta: 0:08:39 iter: 2259 total loss: 0.5605
                                                                                    los
     [11/19 08:42:39 d2.utils.events]: eta: 0:08:25 iter: 2279 total loss: 0.1792
                                                                                    los
     [11/19 08:42:54 d2.utils.events]: eta: 0:08:11 iter: 2299 total_loss: 0.3125
                                                                                    los
     [11/19 08:43:08 d2.utils.events]: eta: 0:07:57 iter: 2319 total loss: 0.3405
                                                                                    los
     [11/19 08:43:21 d2.utils.events]: eta: 0:07:43 iter: 2339 total_loss: 0.2876
                                                                                    los
     [11/19 08:43:35 d2.utils.events]: eta: 0:07:30 iter: 2359 total loss: 0.3215
                                                                                    los
     [11/19 08:43:48 d2.utils.events]: eta: 0:07:15 iter: 2379 total loss: 0.2784
                                                                                    los
     [11/19 08:44:02 d2.utils.events]: eta: 0:07:01 iter: 2399 total loss: 0.4394
                                                                                    los
                                                                                    los
     [11/19 08:44:16 d2.utils.events]:
                                       eta: 0:06:47
                                                     iter: 2419
                                                                total_loss: 0.3345
     [11/19 08:44:30 d2.utils.events]:
                                       eta: 0:06:33
                                                     iter: 2439
                                                                total loss: 0.2747
                                                                                    105
```

```
[11/19 08:44:43 d2.utils.events]:
                                   eta: 0:06:19
                                                  iter: 2459
                                                              total loss: 0.3667
                                                                                   los
[11/19 08:44:57 d2.utils.events]:
                                   eta: 0:06:05
                                                  iter: 2479
                                                              total loss: 0.3027
                                                                                   los
[11/19 08:45:11 d2.utils.events]:
                                                  iter: 2499
                                                              total loss: 0.2614
                                   eta: 0:05:51
                                                                                   los
[11/19 08:45:25 d2.utils.events]:
                                   eta: 0:05:37
                                                  iter: 2519
                                                              total_loss: 0.2301
                                                                                   los
                                                              total loss: 0.1822
[11/19 08:45:39 d2.utils.events]:
                                   eta: 0:05:23
                                                  iter: 2539
                                                                                   los
                                                  iter: 2559
[11/19 08:45:53 d2.utils.events]:
                                                              total loss: 0.3974
                                                                                   los
                                   eta: 0:05:09
[11/19 08:46:06 d2.utils.events]:
                                                  iter: 2579
                                                              total loss: 0.2343
                                   eta: 0:04:54
                                                                                   los
[11/19 08:46:20 d2.utils.events]:
                                   eta: 0:04:40
                                                  iter: 2599
                                                              total loss: 0.3002
                                                                                   los
[11/19 08:46:34 d2.utils.events]:
                                                  iter: 2619
                                                              total loss: 0.2722
                                   eta: 0:04:26
                                                                                   los
[11/19 08:46:48 d2.utils.events]:
                                   eta: 0:04:12
                                                  iter: 2639
                                                              total loss: 0.2824
                                                                                   los
[11/19 08:47:02 d2.utils.events]:
                                                  iter: 2659
                                                              total loss: 0.2455
                                                                                   los
                                   eta: 0:03:58
[11/19 08:47:16 d2.utils.events]:
                                                  iter: 2679
                                                              total loss: 0.2653
                                   eta: 0:03:44
                                                                                   los
[11/19 08:47:31 d2.utils.events]:
                                   eta: 0:03:30
                                                  iter: 2699
                                                              total loss: 0.3187
                                                                                   los
[11/19 08:47:44 d2.utils.events]:
                                   eta: 0:03:16
                                                  iter: 2719
                                                              total loss: 0.2147
                                                                                   los
                                                                                   los
[11/19 08:47:58 d2.utils.events]:
                                   eta: 0:03:02
                                                  iter: 2739
                                                              total loss: 0.1824
[11/19 08:48:12 d2.utils.events]:
                                   eta: 0:02:48
                                                  iter: 2759
                                                              total loss: 0.2686
                                                                                   los
                                                              total_loss: 0.2997
[11/19 08:48:26 d2.utils.events]:
                                   eta: 0:02:34
                                                  iter: 2779
                                                                                   los
[11/19 08:48:40 d2.utils.events]:
                                                  iter: 2799
                                                              total loss: 0.3184
                                   eta: 0:02:20
                                                                                   los
[11/19 08:48:54 d2.utils.events]:
                                                  iter: 2819
                                                              total loss: 0.1596
                                   eta: 0:02:06
                                                                                   los
[11/19 08:49:08 d2.utils.events]:
                                                  iter: 2839
                                   eta: 0:01:52
                                                              total_loss: 0.1926
                                                                                   los
[11/19 08:49:22 d2.utils.events]:
                                   eta: 0:01:38
                                                  iter: 2859
                                                              total loss: 0.1622
                                                                                   los
                                                              total_loss: 0.2785
[11/19 08:49:35 d2.utils.events]:
                                   eta: 0:01:24
                                                  iter: 2879
                                                                                   los
[11/19 08:49:50 d2.utils.events]:
                                   eta: 0:01:10
                                                  iter: 2899
                                                              total loss: 0.2378
                                                                                   los
                                                  iter: 2919
                                                              total loss: 0.379
[11/19 08:50:03 d2.utils.events]:
                                   eta: 0:00:56
                                                                                 loss
[11/19 08:50:17 d2.utils.events]:
                                   eta: 0:00:42
                                                  iter: 2939
                                                              total loss: 0.168
                                                                                  loss
[11/19 08:50:31 d2.utils.events]:
                                   eta: 0:00:28
                                                  iter: 2959
                                                              total_loss: 0.2576
                                                                                  los
[11/19 08:50:45 d2.utils.events]:
                                   eta: 0:00:14
                                                  iter: 2979
                                                              total loss: 0.2265
                                                                                   los
[11/19 08:50:59 d2.utils.events]:
                                   eta: 0:00:00
                                                  iter: 2999
                                                              total loss: 0.3146
[11/19 08:51:00 d2.engine.hooks]: Overall training speed: 2998 iterations in 0:34:56
[11/19 08:51:00 d2.engine.hooks]: Total training time: 0:34:59 (0:00:03 on hooks)
```

import torch

torch.save(trainer.model.state_dict(), os.path.join("/content/drive/MyDrive/CSCI/", "mymodel_
#model = torch.load("MyCustom/path/mymodel.pth")

```
# Look at training curves in tensorboard:
%reload_ext tensorboard
%tensorboard --logdir MyVOCTraining/
```



Inference should use the config with parameters that are used in training
cfg now already contains everything we've set previously. We changed it a little bit for ir
cfg.MODEL.WEIGHTS = os.path.join(cfg.OUTPUT_DIR, "model_final.pth") # path to the model we j
cfg.MODEL.RETINANET.SCORE_THRESH_TEST=0.5 # set a custom testing threshold
predictor = DefaultPredictor(cfg)

→ Evaluation

Run the evaluation on validation (test) dataset and report the scoring metric. We are interested in AP50 score.

```
from detectron2.evaluation import PascalVOCDetectionEvaluator, inference_on_dataset
from detectron2.data import build_detection_test_loader
evaluator = PascalVOCDetectionEvaluator("voc_2007_val")
val_loader = build_detection_test_loader(cfg, "voc_2007_val")
print(inference_on_dataset(predictor.model, val_loader, evaluator))
```

```
[11/19 09:04:13 d2.evaluation.evaluator]: Inference done 1724/2510. Dataloading: 0.6
[11/19 09:04:18 d2.evaluation.evaluator]: Inference done 1739/2510. Dataloading: 0.0
[11/19 09:04:23 d2.evaluation.evaluator]: Inference done 1753/2510. Dataloading: 0.0
[11/19 09:04:29 d2.evaluation.evaluator]: Inference done 1768/2510. Dataloading: 0.0
[11/19 09:04:34 d2.evaluation.evaluator]: Inference done 1783/2510. Dataloading: 0.0
[11/19 09:04:44 d2.evaluation.evaluator]: Inference done 1813/2510. Dataloading: 0.0
[11/19 09:04:49 d2.evaluation.evaluator]: Inference done 1827/2510. Dataloading: 0.0
[11/19 09:04:55 d2.evaluation.evaluator]: Inference done 1842/2510. Dataloading: 0.0
[11/19 09:05:00 d2.evaluation.evaluator]: Inference done 1857/2510. Dataloading: 0.0
[11/19 09:05:05 d2.evaluation.evaluator]: Inference done 1872/2510. Dataloading: 0.0
[11/19 09:05:10 d2.evaluation.evaluator]: Inference done 1886/2510. Dataloading: 0.0
[11/19 09:05:15 d2.evaluation.evaluator]: Inference done 1900/2510. Dataloading: 0.0
[11/19 09:05:20 d2.evaluation.evaluator]: Inference done 1915/2510. Dataloading: 0.0
[11/19 09:05:26 d2.evaluation.evaluator]: Inference done 1930/2510. Dataloading: 0.0
[11/19 09:05:31 d2.evaluation.evaluator]: Inference done 1944/2510. Dataloading: 0.0
[11/19 09:05:36 d2.evaluation.evaluator]: Inference done 1959/2510. Dataloading: 0.0
[11/19 09:05:41 d2.evaluation.evaluator]: Inference done 1974/2510. Dataloading: 0.0
[11/19 09:05:46 d2.evaluation.evaluator]: Inference done 1989/2510. Dataloading: 0.0
[11/19 09:05:52 d2.evaluation.evaluator]: Inference done 2004/2510. Dataloading: 0.0
[11/19 09:05:57 d2.evaluation.evaluator]: Inference done 2019/2510. Dataloading: 0.0
[11/19 09:06:02 d2.evaluation.evaluator]: Inference done 2034/2510. Dataloading: 0.0
[11/19 09:06:07 d2.evaluation.evaluator]: Inference done 2049/2510. Dataloading: 0.0
[11/19 09:06:13 d2.evaluation.evaluator]: Inference done 2064/2510. Dataloading: 0.0
[11/19 09:06:18 d2.evaluation.evaluator]: Inference done 2079/2510. Dataloading: 0.0
[11/19 09:06:23 d2.evaluation.evaluator]: Inference done 2094/2510. Dataloading: 0.0
[11/19 09:06:28 d2.evaluation.evaluator]: Inference done 2108/2510. Dataloading: 0.0
[11/19 09:06:33 d2.evaluation.evaluator]: Inference done 2123/2510. Dataloading: 0.0
[11/19 09:06:38 d2.evaluation.evaluator]: Inference done 2137/2510. Dataloading: 0.0
[11/19 09:06:44 d2.evaluation.evaluator]: Inference done 2152/2510. Dataloading: 0.0
[11/19 09:06:49 d2.evaluation.evaluator]: Inference done 2167/2510. Dataloading: 0.0
[11/19 09:06:54 d2.evaluation.evaluator]: Inference done 2182/2510. Dataloading: 0.0
[11/19 09:06:59 d2.evaluation.evaluator]: Inference done 2196/2510. Dataloading: 0.0
[11/19 09:07:04 d2.evaluation.evaluator]: Inference done 2210/2510. Dataloading: 0.0
[11/19 09:07:09 d2.evaluation.evaluator]: Inference done 2225/2510. Dataloading: 0.0
[11/19 09:07:14 d2.evaluation.evaluator]: Inference done 2240/2510. Dataloading: 0.0
[11/19 09:07:20 d2.evaluation.evaluator]: Inference done 2255/2510. Dataloading: 0.0
[11/19 09:07:25 d2.evaluation.evaluator]: Inference done 2270/2510. Dataloading: 0.0
[11/19 09:07:30 d2.evaluation.evaluator]: Inference done 2285/2510. Dataloading: 0.0
[11/19 09:07:35 d2.evaluation.evaluator]: Inference done 2300/2510. Dataloading: 0.0
[11/19 09:07:41 d2.evaluation.evaluator]: Inference done 2315/2510. Dataloading: 0.€
[11/19 09:07:46 d2.evaluation.evaluator]: Inference done 2330/2510. Dataloading: 0.0
[11/19 09:07:51 d2.evaluation.evaluator]: Inference done 2345/2510. Dataloading: 0.0
[11/19 09:07:56 d2.evaluation.evaluator]: Inference done 2360/2510. Dataloading: 0.0
[11/19 09:08:01 d2.evaluation.evaluator]: Inference done 2375/2510. Dataloading: 0.0
[11/19 09:08:07 d2.evaluation.evaluator]: Inference done 2390/2510. Dataloading: 0.0
[11/19 09:08:12 d2.evaluation.evaluator]: Inference done 2405/2510. Dataloading: 0.0
[11/19 09:08:17 d2.evaluation.evaluator]: Inference done 2420/2510. Dataloading: 0.0
[11/19 09:08:23 d2.evaluation.evaluator]: Inference done 2435/2510. Dataloading: 0.0
[11/19 09:08:28 d2.evaluation.evaluator]: Inference done 2450/2510. Dataloading: 0.0
[11/19 09:08:33 d2.evaluation.evaluator]: Inference done 2465/2510. Dataloading: 0.0
[11/19 09:08:38 d2.evaluation.evaluator]: Inference done 2480/2510. Dataloading: 0.0
[11/19 09:08:43 d2.evaluation.evaluator]: Inference done 2495/2510. Dataloading: 0.0
[11/19 09:08:49 d2.evaluation.evaluator]: Inference done 2510/2510. Dataloading: 0.0
[11/19 09:08:49 d2.evaluation.evaluator]: Total inference time: 0:14:39.457851 (0.35
[11/19 09:08:49 d2.evaluation.evaluator]: Total inference pure compute time: 0:14:32
[11/19 09:08:49 d2.evaluation.pascal_voc_evaluation]: Evaluating voc_2007_val using
OrderedDict([('bbox', {'AP': 50.65258500959214, 'AP50': 66.79858874773524, 'AP75': 5
```

Predictions

[11/19 09:20:19 d2.data.build]: Removed 0 images with no usable annotations. 2510 image
/usr/local/lib/python3.7/dist-packages/detectron2/structures/image_list.py:88: UserWarn
max_size = (max_size + (stride - 1)) // stride * stride



✓ 2s completed at 1:20 AM

×