

dronedetect-final

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1 1. Install and Import Dependencies

```
[ ]: !pip install torch==1.8.1+cu111 torchvision==0.9.1+cu111 torchaudio===0.8.1 -f https://download.pytorch.org/whl/lts/1.8/torch\_lts.html
```

```
Looking in links: https://download.pytorch.org/whl/lts/1.8/torch_lts.html
Collecting torch==1.8.1+cu111
  Downloading https://download.pytorch.org/whl/lts/1.8/cu111/torch-1.8.1%2Bcu111-cp39-cp39-linux_x86_64.whl (1982.2 MB)
    | 1982.2 MB 731 bytes/s 0:00:0122
Collecting torchvision==0.9.1+cu111
  Downloading https://download.pytorch.org/whl/lts/1.8/cu111/torchvision-0.9.1%2Bcu111-cp39-cp39-linux_x86_64.whl (17.6 MB)
    | 17.6 MB 1.8 MB/s eta 0:00:01
Collecting torchaudio===0.8.1
  Downloading torchaudio-0.8.1-cp39-cp39-manylinux1_x86_64.whl (1.9 MB)
    | 1.9 MB 509 kB/s eta 0:00:01
Requirement already satisfied: typing-extensions in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from torch==1.8.1+cu111)
(4.1.1)
Requirement already satisfied: numpy in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from torch==1.8.1+cu111)
(1.21.5)
Requirement already satisfied: pillow>=4.1.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from
torchvision==0.9.1+cu111) (9.0.1)
Installing collected packages: torch, torchvision, torchaudio
  Attempting uninstall: torch
    Found existing installation: torch 2.0.0
    Uninstalling torch-2.0.0:
```

```
Successfully uninstalled torch-2.0.0
Attempting uninstall: torchvision
Found existing installation: torchvision 0.15.1
Uninstalling torchvision-0.15.1:
Successfully uninstalled torchvision-0.15.1
Successfully installed torch-1.8.1+cu111 torchaudio-0.8.1
torchvision-0.9.1+cu111
```

```
[ ]: !git clone https://github.com/ultralytics/yolov5
```

```
Cloning into 'yolov5'...
remote: Enumerating objects: 15529, done.
remote: Counting objects: 100% (136/136), done.
remote: Compressing objects: 100% (93/93), done.
remote: Total 15529 (delta 49), reused 119 (delta 43), pack-reused 15393
Receiving objects: 100% (15529/15529), 14.59 MiB | 3.63 MiB/s, done.
Resolving deltas: 100% (10577/10577), done.
```

```
[ ]: pip install -r ./yolov5/requirements.txt
```

```
Requirement already satisfied: gitpython>=3.1.30 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 5)) (3.1.31)
Requirement already satisfied: matplotlib>=3.3 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 6)) (3.5.1)
Requirement already satisfied: numpy>=1.18.5 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 7)) (1.21.5)
Requirement already satisfied: opencv-python>=4.1.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 8)) (4.7.0.72)
Requirement already satisfied: Pillow>=7.1.2 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 9)) (9.0.1)
Requirement already satisfied: psutil in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 10)) (5.8.0)
Requirement already satisfied: PyYAML>=5.3.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 11)) (6.0)
Requirement already satisfied: requests>=2.23.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 12)) (2.27.1)
Requirement already satisfied: scipy>=1.4.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 13)) (1.7.3)
Requirement already satisfied: thop>=0.1.1 in
```

```

/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 14)) (0.1.1.post2209072238)
Requirement already satisfied: torch>=1.7.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 15)) (1.8.1+cu111)
Requirement already satisfied: torchvision>=0.8.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 16)) (0.9.1+cu111)
Requirement already satisfied: tqdm>=4.64.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 17)) (4.64.0)
Requirement already satisfied: pandas>=1.1.4 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 26)) (1.4.2)
Requirement already satisfied: seaborn>=0.11.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 27)) (0.11.2)
Requirement already satisfied: setuptools>=65.5.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from -r
./yolov5/requirements.txt (line 41)) (67.6.1)
Requirement already satisfied: gitdb<5,>=4.0.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from gitpython>=3.1.30->-r
./yolov5/requirements.txt (line 5)) (4.0.10)
Requirement already satisfied: pyparsing>=2.2.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from matplotlib>=3.3->-r
./yolov5/requirements.txt (line 6)) (3.0.4)
Requirement already satisfied: python-dateutil>=2.7 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from matplotlib>=3.3->-r
./yolov5/requirements.txt (line 6)) (2.8.2)
Requirement already satisfied: packaging>=20.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from matplotlib>=3.3->-r
./yolov5/requirements.txt (line 6)) (21.3)
Requirement already satisfied: fonttools>=4.22.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from matplotlib>=3.3->-r
./yolov5/requirements.txt (line 6)) (4.25.0)
Requirement already satisfied: kiwisolver>=1.0.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from matplotlib>=3.3->-r
./yolov5/requirements.txt (line 6)) (1.3.2)
Requirement already satisfied: cycler>=0.10 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from matplotlib>=3.3->-r
./yolov5/requirements.txt (line 6)) (0.11.0)
Requirement already satisfied: certifi>=2017.4.17 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from requests>=2.23.0->-r
./yolov5/requirements.txt (line 12)) (2022.12.7)
Requirement already satisfied: charset-normalizer~=2.0.0 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from requests>=2.23.0->-r
./yolov5/requirements.txt (line 12)) (2.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in

```

```

/home/ubuntu/anaconda3/lib/python3.9/site-packages (from requests>=2.23.0->-r
./yolov5/requirements.txt (line 12)) (1.26.9)
Requirement already satisfied: idna<4,>=2.5 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from requests>=2.23.0->-r
./yolov5/requirements.txt (line 12)) (3.3)
Requirement already satisfied: typing-extensions in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from torch>=1.7.0->-r
./yolov5/requirements.txt (line 15)) (4.1.1)
Requirement already satisfied: pytz>=2020.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from pandas>=1.1.4->-r
./yolov5/requirements.txt (line 26)) (2021.3)
Requirement already satisfied: smmap<6,>=3.0.1 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from
gitdb<5,>=4.0.1->gitpython>=3.1.30->-r ./yolov5/requirements.txt (line 5))
(5.0.0)
Requirement already satisfied: six>=1.5 in
/home/ubuntu/anaconda3/lib/python3.9/site-packages (from python-
dateutil>=2.7->matplotlib>=3.3->-r ./yolov5/requirements.txt (line 6)) (1.16.0)
Note: you may need to restart the kernel to use updated packages.

```

```

[ ]: import torch
from matplotlib import pyplot as plt
import numpy as np
import cv2

```

2 2. Load Model

```

[ ]: #clear cache
torch.cuda.empty_cache()

```

```

[ ]: model = torch.hub.load('ultralytics/yolov5', 'yolov5s', force_reload=True)

```

```

Downloading: "https://github.com/ultralytics/yolov5/zipball/master" to
/home/ubuntu/.cache/torch/hub/master.zip

```

```

YOLOv5 2023-4-18 Python-3.9.12 torch-2.0.0+cu117 CPU

```

```

Fusing layers...

```

```

requirements: /home/ubuntu/.cache/torch/hub/requirements.txt not
found, check failed.

```

```

YOLOv5s summary: 213 layers, 7225885 parameters, 0 gradients

```

```

Adding AutoShape...

```

3. Make Detections with Images

```
[ ]: img = 'https://www.roboticsbusinessreview.com/wp-content/uploads/2019/06/  
↳AdobeStock_21219413.jpeg'
```

```
[ ]: img2 = 'https://thumbs.dreamstime.com/b/drone-professional-flight-gps-83829913.  
↳jpg'
```

```
[ ]: results = model(img)  
results.print()
```

image 1/1: 3744x5616 4 persons, 24 cars, 4 buss, 1 truck
Speed: 2542.9ms pre-process, 29.2ms inference, 1.2ms NMS per image at shape (1,
3, 448, 640)

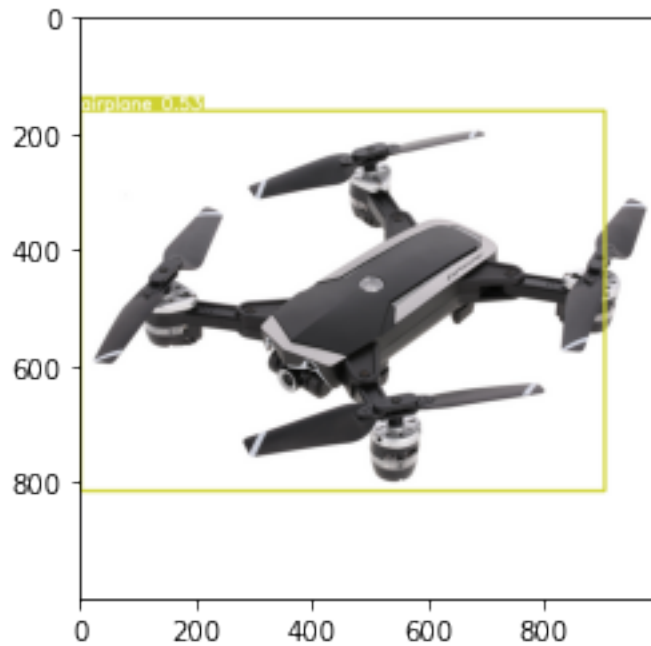
```
[ ]: %matplotlib inline  
plt.imshow(np.squeeze(results.render()))  
plt.show()
```



```
[ ]: results = model("./testImg/pic_031.jpg")  
results.print()
```

image 1/1: 1000x1000 1 airplane
Speed: 11.6ms pre-process, 38.2ms inference, 0.9ms NMS per image at shape (1, 3,
640, 640)

```
[ ]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```



4 4. Load Custom Model

4.0.1 Train model on yolov5 with the labeled dataset

```
[ ]: !cd yolov5 && python train.py --img 1012 --batch 16 --epochs 100 --data data.
      ↪yaml --weights yolov5s.pt --workers 2
```

train: weights=yolov5s.pt, cfg=, data=data.yaml,
hyp=data/hyps/hyp.scratch-low.yaml, epochs=500, batch_size=16, imgsz=320,
rect=False, resume=False, nosave=False, noval=False, noautoanchor=False,
noplots=False, evolve=None, bucket=, cache=None, image_weights=False, device=,
multi_scale=False, single_cls=False, optimizer=SGD, sync_bn=False, workers=2,
project=runs/train, name=exp, exist_ok=False, quad=False, cos_lr=False,
label_smoothing=0.0, patience=100, freeze=[0], save_period=-1, seed=0,
local_rank=-1, entity=None, upload_dataset=False, bbox_interval=-1,
artifact_alias=latest

github: YOLOv5 is out of date by 2 commits. Use 'git pull' or
'git clone https://github.com/ultralytics/yolov5' to update.
YOLOv5 v7.0-145-g94714fe Python-3.9.12 torch-2.0.0+cu117 CPU

hyperparameters: lr0=0.01, lrf=0.01, momentum=0.937,

weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1, box=0.05, cls=0.5, cls_pw=1.0, obj=1.0, obj_pw=1.0, iou_t=0.2, anchor_t=4.0, fl_gamma=0.0, hsv_h=0.015, hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.1, scale=0.5, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0, mixup=0.0, copy_paste=0.0

ClearML: run 'pip install clearml' to automatically track, visualize and remotely train YOLOv5 in ClearML

Comet: run 'pip install comet_ml' to automatically track and visualize YOLOv5 runs in Comet

TensorBoard: Start with 'tensorboard --logdir runs/train', view at <http://localhost:6006/>

Overriding model.yaml nc=80 with nc=1

	from	n	params	module	
arguments					
0	-1	1	3520	models.common.Conv	[3,
32, 6, 2, 2]					
1	-1	1	18560	models.common.Conv	[32,
64, 3, 2]					
2	-1	1	18816	models.common.C3	[64,
64, 1]					
3	-1	1	73984	models.common.Conv	[64,
128, 3, 2]					
4	-1	2	115712	models.common.C3	
[128, 128, 2]					
5	-1	1	295424	models.common.Conv	
[128, 256, 3, 2]					
6	-1	3	625152	models.common.C3	
[256, 256, 3]					
7	-1	1	1180672	models.common.Conv	
[256, 512, 3, 2]					
8	-1	1	1182720	models.common.C3	
[512, 512, 1]					
9	-1	1	656896	models.common.SPPF	
[512, 512, 5]					
10	-1	1	131584	models.common.Conv	
[512, 256, 1, 1]					
11	-1	1	0	torch.nn.modules.upsampling.Upsample	
[None, 2, 'nearest']					
12	[-1, 6]	1	0	models.common.Concat	[1]
13	-1	1	361984	models.common.C3	
[512, 256, 1, False]					
14	-1	1	33024	models.common.Conv	
[256, 128, 1, 1]					
15	-1	1	0	torch.nn.modules.upsampling.Upsample	
[None, 2, 'nearest']					
16	[-1, 4]	1	0	models.common.Concat	[1]
17	-1	1	90880	models.common.C3	

```

[256, 128, 1, False]
18          -1  1    147712  models.common.Conv
[128, 128, 3, 2]
19      [-1, 14]  1          0  models.common.Concat      [1]
20          -1  1    296448  models.common.C3
[256, 256, 1, False]
21          -1  1    590336  models.common.Conv
[256, 256, 3, 2]
22      [-1, 10]  1          0  models.common.Concat      [1]
23          -1  1    1182720  models.common.C3
[512, 512, 1, False]
24      [17, 20, 23]  1    16182  models.yolo.Detect      [1,
[[10, 13, 16, 30, 33, 23], [30, 61, 62, 45, 59, 119], [116, 90, 156, 198, 373,
326]], [128, 256, 512]]
Model summary: 214 layers, 7022326 parameters, 7022326 gradients, 15.9 GFLOPs

```

Transferred 343/349 items from yolov5s.pt

optimizer: SGD(lr=0.01) with parameter groups 57 weight(decay=0.0),
60 weight(decay=0.0005), 60 bias

train: Scanning /home/ubuntu/AILAB/2ndSemLab/Experiment-2/YOLO-
Drowsiness-Detect

train: WARNING /home/ubuntu/AILAB/2ndSemLab/Experiment-2/YOLO-
Drowsiness-Detection/yolov5/drone_dataset/train/images/pic_722.jpg: corrupt JPEG
restored and saved

val: Scanning /home/ubuntu/AILAB/2ndSemLab/Experiment-2/YOLO-
Drowsiness-Detectio

AutoAnchor: 3.85 anchors/target, 1.000 Best Possible Recall (BPR).

Current anchors are a good fit to dataset

Plotting labels to runs/train/exp11/labels.jpg..

libpng warning: iCCP: known incorrect sRGB profile

Image sizes 320 train, 320 val

Using 2 dataloader workers

Logging results to runs/train/exp11

Starting training for 500 epochs...

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0/499	OG	0.1246	0.01465	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
0/499	OG	0.1242	0.01469	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
0/499	OG	0.1246	0.01463	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
0/499	OG	0.1213	0.01613	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
0/499	OG	0.1128	0.01794	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
0/499	OG	0.1068	0.01919	0	42	320:


```

libpng warning: iCCP: known incorrect sRGB profile
0/499      OG      0.1064    0.01936      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
0/499      OG      0.1042    0.01979      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
0/499      OG      0.1007    0.02043      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
0/499      OG      0.09864   0.02074      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
0/499      OG      0.09711   0.02104      0      16      320: 1
          Class    Images  Instances      P      R      mAP50
          all      347      369      0.461    0.409    0.382

```

0.123

```

Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances    Size
1/499      OG      0.06727    0.02507      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.0697    0.02365      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06941    0.02371      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06909    0.02288      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06874    0.02271      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06779    0.02233      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06761    0.02238      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06753    0.02237      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06733    0.02235      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06687    0.022      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06639    0.0219      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.0662    0.02169      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.0661    0.02164      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
1/499      OG      0.06544    0.02141      0      7      320: 1
          Class    Images  Instances      P      R      mAP50
          all      347      369      0.575    0.484    0.543

```

0.228

```

Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances    Size
0%|      | 0/64 [00:00<?, ?it/s]libpng warning: iCCP: known incorrect sRGB

```

profile							
2/499	OG	0.06159	0.02161	0	51	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.06005	0.021	0	48	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.06023	0.02086	0	51	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05984	0.02084	0	39	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.0597	0.02096	0	57	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.0592	0.02053	0	38	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05935	0.02045	0	38	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05899	0.0203	0	41	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05874	0.0202	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.0583	0.02014	0	41	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05813	0.02019	0	48	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05797	0.02014	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile							
2/499	OG	0.05758	0.01999	0	10	320: 1	
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.599	0.642	0.588	

0.256

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
3/499	OG	0.05336	0.01795	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05309	0.01806	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05311	0.01789	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.0532	0.01848	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05305	0.01824	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.0528	0.0183	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05273	0.01834	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05255	0.01826	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						

3/499	OG	0.05216	0.018	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05151	0.0176	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05147	0.01756	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
3/499	OG	0.05109	0.01779	0	16	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.768	0.732	0.765

0.351

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
4/499	OG	0.0497	0.01524	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04867	0.01718	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04751	0.01685	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04703	0.01689	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04674	0.01671	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04825	0.01641	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04808	0.01703	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.0475	0.01685	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04732	0.01678	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04727	0.01669	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04675	0.01658	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04682	0.01657	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.0466	0.01687	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04658	0.01686	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04658	0.01682	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.04658	0.01679	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
4/499	OG	0.0466	0.01672	0	38	320:

```

libpng warning: iCCP: known incorrect sRGB profile
  4/499      OG    0.04662    0.01676      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
  4/499      OG    0.04625    0.01662      0      8      320: 1
                Class      Images  Instances      P      R      mAP50
                all        347      369      0.809    0.732    0.758

```

0.266

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      5/499      OG    0.04204    0.0153      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04107    0.01499      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04116    0.01502      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04108    0.01513      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04098    0.01527      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04087    0.01532      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04097    0.01563      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04088    0.01564      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04066    0.01561      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.0406    0.01556      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04059    0.01554      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
  5/499      OG    0.04062    0.01556      0      12      320: 1
                Class      Images  Instances      P      R      mAP50
                all        347      369      0.793    0.686    0.754

```

0.344

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      6/499      OG    0.04197    0.01682      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
  6/499      OG    0.03971    0.01631      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
  6/499      OG    0.04013    0.01507      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
  6/499      OG    0.04025    0.01501      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
  6/499      OG    0.04027    0.01542      0      44      320:

```

libpng warning: iCCP: known incorrect sRGB profile	6/499	OG	0.04049	0.01537	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	6/499	OG	0.04056	0.0152	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	6/499	OG	0.04053	0.01513	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile	6/499	OG	0.04046	0.01517	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile	6/499	OG	0.04042	0.01526	0	14	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.865	0.737	0.82

0.461

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
7/499	OG	0.0377	0.0161	0	48	320:	
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03841	0.01529	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03793	0.0157	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03941	0.01645	0	65	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03989	0.01607	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03952	0.0159	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.0394	0.01582	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03917	0.01547	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.0392	0.01552	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03936	0.01499	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03934	0.01512	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03923	0.01511	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03893	0.01517	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03867	0.01501	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	7/499	OG	0.03841	0.01524	0	10	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.855	0.791	0.849

0.441

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
8/499	OG	0.03671	0.01462	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03677	0.01461	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03689	0.01482	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03699	0.0148	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03694	0.01478	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03744	0.01473	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03742	0.01466	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03728	0.01466	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
8/499	OG	0.03711	0.01475	0	10	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.91	0.798	0.862

0.48

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
9/499	OG	0.03416	0.01279	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.0361	0.01377	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03596	0.0136	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03639	0.01359	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03684	0.01374	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03668	0.01401	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03669	0.01405	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03666	0.01411	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03604	0.01429	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03593	0.01449	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03595	0.01451	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
9/499	OG	0.03629	0.01449	0	10	320: 1

	Class	Images	Instances	P	R	mAP50
0.405	all	347	369	0.899	0.794	0.861

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
	10/499	OG	0.03687	0.01559	0	44	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03519	0.01397	0	43	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03473	0.01387	0	39	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03506	0.01423	0	56	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03527	0.01431	0	51	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.0353	0.01427	0	42	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03524	0.01423	0	48	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03526	0.01423	0	44	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03549	0.01435	0	39	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03551	0.01435	0	44	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03532	0.01434	0	45	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	10/499	OG	0.03568	0.01448	0	11	320: 1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.873	0.81	0.89	

0.491

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile				
	11/499	OG	0.03232	0.01358	0	47	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	11/499	OG	0.03265	0.01344	0	49	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	11/499	OG	0.03415	0.01373	0	50	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	11/499	OG	0.0344	0.01357	0	38	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	11/499	OG	0.03522	0.01424	0	50	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	11/499	OG	0.03504	0.01429	0	46	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	11/499	OG	0.03463	0.01379	0	37	320:

libpng warning: iCCP: known incorrect sRGB profile	11/499	OG	0.03459	0.01378	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	11/499	OG	0.03473	0.01385	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	11/499	OG	0.03469	0.01397	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	11/499	OG	0.03472	0.01398	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	11/499	OG	0.03469	0.01393	0	9	320: 1
	Class	Images	Instances	P	R	mAP50	
libpng warning: iCCP: known incorrect sRGB profile	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.887	0.797	0.885	

0.506

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
12/499	OG	0.03378	0.01299	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03269	0.01332	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03259	0.01356	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03327	0.01352	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03375	0.01371	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03375	0.01382	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.0337	0.0138	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03394	0.01389	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03393	0.0139	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	12/499	OG	0.03421	0.0139	0	9	320: 1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.87	0.767	0.866	

0.485

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
13/499	OG	0.03109	0.01175	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile	13/499	OG	0.03087	0.0125	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile							
libpng warning: iCCP: known incorrect sRGB profile	13/499	OG	0.03115	0.01431	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile							

13/499	OG	0.03182	0.01414	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03223	0.01439	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03243	0.01421	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03262	0.01422	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03317	0.01391	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03324	0.01388	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03366	0.01405	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03363	0.01404	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03358	0.0141	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
13/499	OG	0.03372	0.01415	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.87	0.816	0.88

0.511

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
14/499	OG	0.03312	0.01208	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03304	0.01367	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03381	0.01384	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03392	0.01394	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03407	0.01411	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03389	0.01407	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03278	0.01364	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03282	0.01379	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03277	0.01381	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03284	0.01395	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
14/499	OG	0.03303	0.01408	0	11	320: 1

	Class	Images	Instances	P	R	mAP50
0.458	all	347	369	0.857	0.802	0.876

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
	15/499	OG	0.03418	0.01389	0	41	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03286	0.0135	0	36	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03284	0.01341	0	40	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03279	0.01337	0	46	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03274	0.01344	0	48	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03315	0.01339	0	42	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03263	0.01321	0	38	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03254	0.01317	0	47	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.03228	0.01326	0	45	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	15/499	OG	0.0325	0.01343	0	12	320: 1
	Class	Images	Instances	P	R	mAP50	
0.488	all	347	369	0.875	0.829	0.896	

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
	16/499	OG	0.03094	0.01486	0	42	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.0308	0.01404	0	46	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03108	0.01306	0	35	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03146	0.01303	0	42	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03146	0.01306	0	46	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03113	0.01316	0	33	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03111	0.01313	0	43	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03117	0.01317	0	42	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03133	0.01307	0	35	320:
	libpng warning: iCCP: known incorrect sRGB profile						
	16/499	OG	0.03136	0.01314	0	44	320:

```
libpng warning: iCCP: known incorrect sRGB profile
16/499      OG      0.03126      0.01336      0      11      320: 1
          Class      Images  Instances      P      R      mAP50
          all      347      369      0.854      0.809      0.882
```

0.481

```
      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances      Size
17/499      OG      0.03181      0.01343      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.03162      0.01332      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.03122      0.01349      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.03104      0.01334      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.0312      0.01339      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.03127      0.01342      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.0314      0.0135      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.0315      0.01352      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
17/499      OG      0.03148      0.0135      0      11      320: 1
          Class      Images  Instances      P      R      mAP50
          all      347      369      0.916      0.835      0.899
```

0.537

```
      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances      Size
18/499      OG      0.03141      0.01497      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03231      0.01446      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03121      0.01431      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03053      0.01405      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03111      0.0136      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03149      0.01356      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03135      0.01341      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
18/499      OG      0.03149      0.01346      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
```

18/499	OG	0.03151	0.01359	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.913	0.835	0.91

0.52

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
19/499	OG	0.03192	0.01215	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03096	0.01282	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03094	0.01279	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03096	0.01267	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03091	0.01272	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03085	0.01271	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03083	0.01272	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03091	0.01278	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03078	0.01278	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03077	0.01278	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03094	0.0128	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
19/499	OG	0.03085	0.01272	0	8	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.854	0.791	0.857

0.453

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
20/499	OG	0.03227	0.0184	0	58	320:
libpng warning: iCCP: known incorrect sRGB profile						
20/499	OG	0.03329	0.01373	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
20/499	OG	0.03164	0.01296	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
20/499	OG	0.03161	0.01299	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
20/499	OG	0.0312	0.01317	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
20/499	OG	0.03116	0.01313	0	61	320:

```

libpng warning: iCCP: known incorrect sRGB profile
20/499      OG      0.03119    0.01325      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
20/499      OG      0.03105    0.01319      0      32      320:
libpng warning: iCCP: known incorrect sRGB profile
20/499      OG      0.03097    0.01318      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
20/499      OG      0.03102    0.01311      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
20/499      OG      0.03092    0.01323      0      12      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.943    0.802    0.887

```

0.494

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      21/499      OG      0.03103    0.01349      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03032    0.01321      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03016    0.0131      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03003    0.01298      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.02983    0.01296      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.02999    0.01292      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03034    0.0132      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03037    0.01313      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03044    0.01299      0      54      320:
libpng warning: iCCP: known incorrect sRGB profile
21/499      OG      0.03087    0.01319      0      17      320: 1
          Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.893    0.864    0.899

```

0.499

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      22/499      OG      0.03216    0.015      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile
22/499      OG      0.03264    0.01374      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile

```

22/499	OG	0.03133	0.01305	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03065	0.01314	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.0304	0.01307	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03019	0.01303	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03048	0.01303	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03048	0.01305	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03082	0.01299	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.0309	0.01295	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03104	0.01289	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.031	0.013	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03083	0.01296	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
22/499	OG	0.03074	0.01285	0	5	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.94	0.856	0.908

0.547

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
23/499	OG	0.03008	0.01377	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.02893	0.01338	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.02929	0.01322	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.02948	0.01294	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.02962	0.01297	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.03007	0.01297	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.0302	0.01285	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.03006	0.01273	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
23/499	OG	0.03028	0.01271	0	41	320:

```

libpng warning: iCCP: known incorrect sRGB profile
23/499      OG      0.03006      0.01269      0      31      320:
libpng warning: iCCP: known incorrect sRGB profile
23/499      OG      0.0301      0.01272      0      14      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.887      0.835      0.892

```

0.522

```

          Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
24/499      OG      0.0299      0.01336      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.03027      0.01313      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.03028      0.01313      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.03015      0.01281      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.03      0.0127      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.02999      0.0127      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.02997      0.01269      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.02993      0.01266      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.03006      0.01272      0      53      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.02991      0.01265      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
24/499      OG      0.03014      0.01277      0      16      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.914      0.803      0.892

```

0.52

```

          Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
25/499      OG      0.02967      0.01325      0      33      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
25/499      OG      0.03039      0.0131      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
25/499      OG      0.03076      0.0132      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
25/499      OG      0.03033      0.01336      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
25/499      OG      0.03016      0.01341      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile

```

25/499	OG	0.0308	0.01369	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03073	0.0138	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03041	0.01364	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03041	0.01362	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03042	0.01345	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03031	0.01345	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.0301	0.01342	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03001	0.01336	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03011	0.0133	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
25/499	OG	0.03001	0.01327	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.857	0.816	0.877

0.451

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
26/499	OG	0.02368	0.01067	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02696	0.01261	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02873	0.01191	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02906	0.01204	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02906	0.01203	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02875	0.01208	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02893	0.01231	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02913	0.01234	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.029	0.01227	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
26/499	OG	0.02887	0.01228	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.931	0.836	0.922

0.566

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
27/499	OG	0.02798	0.01283	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02892	0.01333	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02909	0.01337	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02902	0.01329	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02934	0.01315	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.0295	0.01315	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.0296	0.01319	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02954	0.01317	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02946	0.01326	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02943	0.0133	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02938	0.01321	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.0294	0.01327	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02963	0.01319	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02963	0.01315	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
27/499	OG	0.02963	0.01323	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.94	0.845	0.913

0.516

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
28/499	OG	0.02908	0.01364	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
28/499	OG	0.02956	0.01318	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
28/499	OG	0.02917	0.01296	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
28/499	OG	0.02808	0.01277	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
28/499	OG	0.02846	0.0128	0	52	320:

libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02831	0.01271	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02855	0.01287	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02858	0.0128	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02899	0.01279	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02899	0.01278	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02911	0.01284	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02905	0.01284	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02885	0.01266	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02887	0.01265	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	28/499	OG	0.02866	0.01258	0	12	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.921	0.881	0.941

0.568

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
29/499	OG	0.02736	0.01334	0	47	320:	
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02761	0.01354	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.03034	0.01329	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.0301	0.01282	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02937	0.0124	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02923	0.01253	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02917	0.01259	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02911	0.01256	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02903	0.01252	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02909	0.0124	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02897	0.01239	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	29/499	OG	0.02896	0.01232	0	45	320:

libpng warning: iCCP: known incorrect sRGB profile							
29/499	OG	0.02898	0.01248	0	50	320:	
libpng warning: iCCP: known incorrect sRGB profile							
29/499	OG	0.02898	0.01242	0	12	320:	1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.884	0.873	0.923	

0.533

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
30/499	OG	0.02915	0.0141	0	55	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02914	0.01365	0	41	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02907	0.01355	0	48	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.029	0.0134	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02892	0.01312	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02889	0.0131	0	36	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02868	0.01305	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.0286	0.01305	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02884	0.01308	0	49	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02889	0.01311	0	38	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02892	0.01308	0	54	320:	
libpng warning: iCCP: known incorrect sRGB profile							
30/499	OG	0.02886	0.01317	0	14	320:	1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.939	0.848	0.938	

0.533

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
31/499	OG	0.02814	0.01227	0	44	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02818	0.0122	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.0283	0.01225	0	48	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02845	0.01213	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02852	0.01218	0	47	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02818	0.01223	0	52	320:	

libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02821	0.01216	0	35	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.0283	0.01218	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02833	0.01218	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02871	0.01234	0	57	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02861	0.01227	0	42	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02867	0.01224	0	39	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02868	0.01223	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02858	0.01236	0	49	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02852	0.01239	0	38	320:	
libpng warning: iCCP: known incorrect sRGB profile							
31/499	OG	0.02853	0.01231	0	10	320:	1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.846	0.82	0.899	

0.51

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile				
profile							
32/499	OG	0.02666	0.01128	0	50	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02646	0.0113	0	39	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02638	0.01129	0	37	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.0277	0.01124	0	38	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02762	0.0112	0	38	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02755	0.01143	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02842	0.01152	0	47	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02832	0.01162	0	41	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02843	0.01162	0	37	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02846	0.01158	0	32	320:	
libpng warning: iCCP: known incorrect sRGB profile							
32/499	OG	0.02824	0.0116	0	11	320:	1

	Class	Images	Instances	P	R	mAP50
	all	347	369	0.882	0.869	0.917

0.544

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
33/499	OG	0.02948	0.01356	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02865	0.01308	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02872	0.01292	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02851	0.01262	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02854	0.01251	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02871	0.01264	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02863	0.01269	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02873	0.01266	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02886	0.01261	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02866	0.01247	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02863	0.01252	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
33/499	OG	0.02854	0.01259	0	15	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.945	0.836	0.911

0.574

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
34/499	OG	0.02768	0.012	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02798	0.01321	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02842	0.01309	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02869	0.01311	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02847	0.01307	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02843	0.01301	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02836	0.01302	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						

34/499	OG	0.02833	0.01277	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02837	0.01251	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
34/499	OG	0.02841	0.01245	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.94	0.835	0.904

0.552

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
35/499	OG	0.02943	0.01219	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02613	0.01176	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02666	0.01196	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02717	0.01169	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.0274	0.0119	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02776	0.01213	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02771	0.01218	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02839	0.01204	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02814	0.01202	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02806	0.01199	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02814	0.012	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
35/499	OG	0.02803	0.01202	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.95	0.817	0.898

0.529

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
36/499	OG	0.02958	0.01404	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
36/499	OG	0.02725	0.01208	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
36/499	OG	0.0278	0.01193	0	47	320:

```

libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02765    0.01152      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02737    0.01181      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.0279    0.01176      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02784    0.01177      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02783    0.01191      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02782    0.01193      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02782    0.01192      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
36/499      OG      0.02779    0.01194      0      14      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.941    0.87    0.904

```

0.519

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      37/499      OG      0.02824    0.01088      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02795    0.01173      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02718    0.0121      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02726    0.01204      0      33      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.0275    0.01205      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02697    0.01169      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02725    0.01182      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02718    0.01174      0      33      320:
libpng warning: iCCP: known incorrect sRGB profile
      37/499      OG      0.02712    0.01172      0      11      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.927    0.859    0.919

```

0.566

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      38/499      OG      0.02835    0.01238      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
      38/499      OG      0.02799    0.01226      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile

```

38/499	OG	0.02791	0.01217	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.0276	0.01235	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02754	0.01224	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02765	0.01218	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02774	0.01227	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02776	0.01233	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02784	0.01215	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02791	0.01213	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
38/499	OG	0.02794	0.0122	0	14	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.97	0.879	0.936

0.545

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
39/499	OG	0.02652	0.0118	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02686	0.01168	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02706	0.01112	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02707	0.0111	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.0268	0.01146	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02701	0.01149	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02685	0.01175	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02716	0.01176	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02725	0.01178	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02722	0.01181	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02731	0.01189	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02753	0.012	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile						

39/499	OG	0.02747	0.01198	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
39/499	OG	0.02749	0.01191	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.94	0.87	0.912

0.541

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
40/499	OG	0.02795	0.01255	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02752	0.01226	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02751	0.01237	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02759	0.01258	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.0275	0.01264	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02728	0.01236	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02663	0.01226	0	58	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02667	0.01227	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02671	0.01227	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02669	0.01223	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
40/499	OG	0.02684	0.01238	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.935	0.837	0.915

0.547

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
41/499	OG	0.02782	0.01266	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02753	0.01221	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02815	0.01282	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02799	0.01267	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02785	0.01261	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02806	0.01195	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						

41/499	OG	0.02795	0.01193	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02771	0.01206	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02764	0.01201	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02767	0.01204	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02767	0.01189	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02758	0.01188	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
41/499	OG	0.02753	0.01189	0	7	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.914	0.821	0.897

0.493

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
42/499	OG	0.02514	0.01106	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02559	0.01133	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02554	0.01121	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02572	0.0117	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02569	0.01194	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02578	0.01191	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02568	0.01153	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02575	0.01149	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02674	0.01186	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02665	0.01197	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02661	0.01201	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02656	0.01201	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
42/499	OG	0.02676	0.01199	0	15	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.911	0.855	0.908

0.524

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
43/499	OG	0.02572	0.0125	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02908	0.01266	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02919	0.01247	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02846	0.01256	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02758	0.01224	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02674	0.01211	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02665	0.01201	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02674	0.01205	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02692	0.0121	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.0269	0.0121	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02689	0.01203	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.0268	0.01202	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02686	0.01212	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02686	0.0121	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02682	0.01225	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.0268	0.0122	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02661	0.01208	0	31	320:
libpng warning: iCCP: known incorrect sRGB profile						
43/499	OG	0.02692	0.01215	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.902	0.881	0.915

0.517

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
44/499	OG	0.02505	0.01249	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
44/499	OG	0.0254	0.01162	0	46	320:

libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02603	0.01144	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02624	0.01165	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02654	0.01159	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.0265	0.01157	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02652	0.01163	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02648	0.01162	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02645	0.01157	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02638	0.01153	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02641	0.01149	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	44/499	OG	0.02634	0.0115	0	11	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.901	0.875	0.917

0.543

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
45/499	OG	0.02505	0.01207	0	44	320:	
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02558	0.01167	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02605	0.01156	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02593	0.01159	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02596	0.01186	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02594	0.01184	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02583	0.01175	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02593	0.01186	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02588	0.01184	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.0257	0.01175	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile	45/499	OG	0.02569	0.01172	0	36	320:

```

libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 45/499      OG    0.02569    0.01164      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
 45/499      OG    0.02606    0.01158      0      11      320: 1
      Class      Images  Instances      P      R      mAP50
      all        347      369      0.917    0.841    0.91
0.538

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
 46/499      OG    0.02558    0.01208      0      53      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02606    0.01132      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02683    0.01161      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02657    0.0116      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02682    0.01164      0      34      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.027      0.01142      0      33      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02736    0.01153      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02742    0.01159      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02713    0.01165      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02704    0.01169      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.027      0.01168      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 46/499      OG    0.02675    0.01173      0      12      320: 1
      Class      Images  Instances      P      R      mAP50
      all        347      369      0.893    0.863    0.917
0.562

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
 47/499      OG    0.02325    0.01051      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
 47/499      OG    0.0243    0.01096      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
 47/499      OG    0.02561    0.01185      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
 47/499      OG    0.02594    0.01175      0      48      320:

```

libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02641	0.01192	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02643	0.01176	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02639	0.01197	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02628	0.01204	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02621	0.01198	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02599	0.01193	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02604	0.0119	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02594	0.0119	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02574	0.01199	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02578	0.01192	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02575	0.01196	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02587	0.01185	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02582	0.01181	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02582	0.01179	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02586	0.01182	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	47/499	OG	0.02588	0.01174	0	7	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.919	0.8	0.899

0.531

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
48/499	OG	0.02462	0.01066	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02365	0.01051	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02426	0.01138	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02486	0.0113	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						

48/499	OG	0.02486	0.01138	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02484	0.01145	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02487	0.01153	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02503	0.01148	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02555	0.01139	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02549	0.0113	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02545	0.0113	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02553	0.01137	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
48/499	OG	0.02571	0.01133	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.869	0.84	0.901

0.495

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
49/499	OG	0.02636	0.01134	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02609	0.01122	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02631	0.01117	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02573	0.01128	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02567	0.01135	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02582	0.01131	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02598	0.01154	0	58	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02591	0.01119	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02605	0.01125	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02606	0.0113	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02601	0.0113	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
49/499	OG	0.02588	0.01129	0	38	320:

```

libpng warning: iCCP: known incorrect sRGB profile
  49/499      OG    0.02574    0.01146      0      12      320: 1
                Class    Images  Instances      P      R      mAP50
                all      347      369      0.901    0.851    0.899

```

0.52

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
    50/499      OG    0.02543    0.01073      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02693    0.0118      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02659    0.0123      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02627    0.01225      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02609    0.01183      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02583    0.01153      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.0257    0.01158      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02625    0.01147      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02605    0.01148      0      53      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02637    0.01159      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02634    0.01152      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02633    0.01141      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.0267    0.01158      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02658    0.01158      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02657    0.0116      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
    50/499      OG    0.02653    0.01163      0      9      320: 1
                Class    Images  Instances      P      R      mAP50
                all      347      369      0.937    0.867    0.912

```

0.516

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
    51/499      OG    0.0272    0.01143      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
    51/499      OG    0.02666    0.01124      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
    51/499      OG    0.02666    0.01124      0      49      320:

```


libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02626	0.0112	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02647	0.01122	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02675	0.01119	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02662	0.01136	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02663	0.01141	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02661	0.01137	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02659	0.0113	0	31	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02658	0.01134	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.02652	0.01129	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile	51/499	OG	0.0265	0.01128	0	10	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.933	0.862	0.915

0.552

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
52/499	OG	0.02506	0.01346	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02619	0.01185	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02624	0.01203	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02642	0.01199	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02637	0.01195	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02638	0.01175	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.0263	0.01183	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02615	0.01174	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02616	0.01174	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02582	0.01139	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02584	0.01157	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						

52/499	OG	0.02581	0.01156	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02583	0.01156	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
52/499	OG	0.02565	0.01147	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.918	0.862	0.921

0.568

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
53/499	OG	0.02592	0.0124	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02671	0.01253	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02633	0.01231	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02561	0.01158	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02532	0.01172	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.0255	0.01184	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02529	0.01163	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.0255	0.0116	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02549	0.01173	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.0253	0.01155	0	32	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02539	0.01157	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02533	0.01155	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02537	0.01168	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02542	0.01158	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02545	0.01156	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
53/499	OG	0.02542	0.01165	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.892	0.848	0.903

0.536

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
54/499	OG	0.02736	0.0127	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						

54/499	OG	0.027	0.01217	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02595	0.01177	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02543	0.01193	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02542	0.01176	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02547	0.01185	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02541	0.01184	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02608	0.01183	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02615	0.01183	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02585	0.01156	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02581	0.01157	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02586	0.01156	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02585	0.01154	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02587	0.01151	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
54/499	OG	0.02586	0.0117	0	17	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.908	0.867	0.906

0.516

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
55/499	OG	0.0248	0.01108	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
55/499	OG	0.02468	0.01117	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
55/499	OG	0.02565	0.01148	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
55/499	OG	0.02552	0.0115	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
55/499	OG	0.02542	0.01149	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
55/499	OG	0.02535	0.01155	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
55/499	OG	0.02531	0.01163	0	42	320:

```

libpng warning: iCCP: known incorrect sRGB profile
55/499      OG      0.02538      0.01176      0      53      320:
libpng warning: iCCP: known incorrect sRGB profile
55/499      OG      0.02543      0.01175      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
55/499      OG      0.02547      0.01174      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
55/499      OG      0.02532      0.01158      0      16      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.933      0.828      0.909
0.544

```

```

          Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
56/499      OG      0.02532      0.01158      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02555      0.01136      0      31      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02572      0.01104      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02545      0.01082      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02513      0.011      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02513      0.01097      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.0251      0.01095      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02507      0.01099      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02509      0.01102      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02521      0.01119      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02521      0.0112      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02519      0.01123      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
56/499      OG      0.02526      0.01123      0      9      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.928      0.802      0.914
0.533

```

```

          Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
57/499      OG      0.02497      0.01137      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile

```

57/499	OG	0.02478	0.01146	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.02481	0.01146	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.025	0.01137	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.02496	0.0113	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.02509	0.01134	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.02504	0.01131	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.02513	0.01128	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
57/499	OG	0.02522	0.01131	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.901	0.818	0.899

0.535

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
58/499	OG	0.02659	0.01101	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02603	0.01141	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02611	0.01101	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02542	0.01135	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02524	0.01159	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02546	0.01124	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02549	0.01114	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02523	0.01103	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02535	0.01105	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02531	0.01105	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.0253	0.01114	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02531	0.01116	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
58/499	OG	0.02493	0.01113	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile						
	Class	Images	Instances	P	R	mAP50

0.54 all 347 369 0.943 0.843 0.916

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
59/499	OG	0.02647	0.0117	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02419	0.01115	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02415	0.01118	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.0241	0.01121	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02441	0.01109	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.0243	0.01096	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02437	0.01099	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02458	0.01086	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02465	0.01085	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02479	0.01107	0	29	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.0248	0.01108	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02496	0.01117	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02516	0.01116	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02508	0.01105	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
59/499	OG	0.02486	0.01096	0	7	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.855	0.829	0.864

0.495

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
60/499	OG	0.02822	0.01261	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
60/499	OG	0.02864	0.01212	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
60/499	OG	0.02561	0.01096	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
60/499	OG	0.02516	0.01137	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
60/499	OG	0.025	0.01117	0	41	320:

```

libpng warning: iCCP: known incorrect sRGB profile
60/499      OG      0.02501    0.01133      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
60/499      OG      0.02562    0.0112      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
60/499      OG      0.02556    0.01125      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
60/499      OG      0.02554    0.01128      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
60/499      OG      0.02549    0.01118      0       7      320: 1
          Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.904    0.843    0.904
0.494

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      61/499      OG      0.02397    0.01315      0        61      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02399    0.01122      0        38      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02521    0.01147      0        46      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02566    0.01125      0        44      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02559    0.01133      0        47      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02536    0.01129      0        39      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02518    0.01119      0        36      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.0252    0.01113      0        42      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02522    0.01109      0        43      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02527    0.01112      0        41      320:
libpng warning: iCCP: known incorrect sRGB profile
      61/499      OG      0.02534    0.01117      0        12      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.921    0.889    0.927
0.551

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
0%|          | 0/64 [00:00<?, ?it/s]libpng warning: iCCP: known incorrect sRGB
profile
      62/499      OG      0.02644    0.01475      0        59      320:
libpng warning: iCCP: known incorrect sRGB profile

```

62/499	OG	0.02554	0.01513	0	68	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.0251	0.01261	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02512	0.01228	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02522	0.01165	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02506	0.01155	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.025	0.01151	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02498	0.01149	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02501	0.01145	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02508	0.01145	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
62/499	OG	0.02525	0.01145	0	8	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.88	0.867	0.904

0.512

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
63/499	OG	0.02522	0.01054	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
63/499	OG	0.02523	0.01113	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
63/499	OG	0.02509	0.01109	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
63/499	OG	0.02519	0.0113	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
63/499	OG	0.02497	0.01119	0	8	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.889	0.837	0.887

0.52

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
64/499	OG	0.02366	0.011	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
64/499	OG	0.02475	0.01129	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
64/499	OG	0.02468	0.01123	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
64/499	OG	0.02511	0.01133	0	50	320:


```

libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.02547    0.01107      0      30      320:
libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.02537    0.01103      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.02548    0.01109      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.0255    0.01104      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.02565    0.01117      0      59      320:
libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.02546    0.01124      0      58      320:
libpng warning: iCCP: known incorrect sRGB profile
64/499      OG      0.02515    0.0112      0      8      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.936    0.867    0.933

```

0.548

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
65/499      OG      0.0232    0.01263      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02551    0.01133      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02459    0.01136      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02458    0.0115      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02479    0.01151      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.0248    0.01148      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.025    0.01134      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02495    0.01135      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02494    0.01135      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.0249    0.01126      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
65/499      OG      0.02507    0.01127      0      10      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.942    0.827    0.924

```

0.53

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
66/499      OG      0.02615    0.01032      0      56      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02534    0.01076      0      44      320:

```

```

libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02505    0.01126      0      58      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.0245     0.01157      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02401    0.01131      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02391    0.0113      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02386    0.01127      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02388    0.01118      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
66/499      OG      0.02405    0.01105      0      11      320: 1
          Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.947    0.843    0.914

```

0.548

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      67/499      OG      0.02338    0.01216      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.024     0.01231      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02376    0.01185      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02444    0.01128      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02451    0.0113      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02465    0.01123      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.0243     0.01119      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02429    0.01123      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02424    0.01122      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02421    0.01116      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
      67/499      OG      0.02429    0.01119      0      12      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.899    0.872    0.914

```

0.554

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      68/499      OG      0.02544    0.01157      0      46      320:

```

libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02517	0.01123	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02485	0.01137	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02484	0.01155	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02477	0.01167	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02482	0.01154	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02477	0.01142	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02471	0.01126	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02456	0.01117	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.02443	0.01123	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile	68/499	OG	0.0245	0.01176	0	14	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.94	0.842	0.924

0.538

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
69/499	OG	0.02433	0.01102	0	41	320:	
libpng warning: iCCP: known incorrect sRGB profile	69/499	OG	0.0249	0.01085	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	69/499	OG	0.02489	0.01083	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile	69/499	OG	0.02467	0.01082	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	69/499	OG	0.02435	0.01076	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	69/499	OG	0.02437	0.01075	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	69/499	OG	0.02447	0.0108	0	12	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.963	0.854	0.92

0.542

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
70/499	OG	0.0247	0.01091	0	41	320:	
libpng warning: iCCP: known incorrect sRGB profile	70/499	OG	0.02517	0.0113	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile							
libpng warning: iCCP: known incorrect sRGB profile							

70/499	OG	0.02523	0.01131	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.02487	0.01114	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.0246	0.01102	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.0242	0.01093	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.02438	0.01094	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.02429	0.0109	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.02439	0.01086	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.0243	0.01086	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
70/499	OG	0.02406	0.01083	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.88	0.829	0.88

0.547

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
71/499	OG	0.02368	0.01045	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02427	0.009939	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02384	0.01018	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02379	0.0102	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02379	0.01036	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02364	0.01038	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02358	0.01051	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02352	0.01052	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02357	0.01048	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.0236	0.01052	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
71/499	OG	0.02361	0.01043	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.909	0.824	0.892

0.533

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
72/499	OG	0.02286	0.01065	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02288	0.01125	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02303	0.01129	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02316	0.01122	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02365	0.0111	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02354	0.01102	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02364	0.01098	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02337	0.01095	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02338	0.01093	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02345	0.01087	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02348	0.01088	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
72/499	OG	0.02343	0.01087	0	8	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile						
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.92	0.835	0.903

0.533

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
73/499	OG	0.02322	0.01117	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
73/499	OG	0.0232	0.01001	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
73/499	OG	0.02285	0.009886	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
73/499	OG	0.02291	0.01004	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
73/499	OG	0.02281	0.01036	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
73/499	OG	0.02341	0.01053	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
73/499	OG	0.02341	0.01053	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.922	0.843	0.898

0.526

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
74/499	OG	0.02215	0.01045	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.02277	0.01033	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.02278	0.01045	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.02308	0.01062	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.0234	0.0107	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.02321	0.01061	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.0232	0.01056	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.02311	0.01053	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
74/499	OG	0.0232	0.01068	0	7	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.941	0.848	0.905

0.535

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64 [00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile				
75/499	OG	0.02317	0.009399	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02388	0.01052	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02404	0.01046	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.024	0.01036	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.0239	0.0106	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02382	0.01055	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02377	0.01045	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02382	0.01055	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02383	0.01053	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
75/499	OG	0.02382	0.01063	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						

```

libpng warning: iCCP: known incorrect sRGB profile
75/499      OG      0.02367    0.01062      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
75/499      OG      0.0235     0.01055      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
75/499      OG      0.02345    0.01061      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
75/499      OG      0.02348    0.01062      0      58      320:
libpng warning: iCCP: known incorrect sRGB profile
75/499      OG      0.02344    0.01066      0      10      320: 1
              Class      Images  Instances      P      R      mAP50
              all        347      369      0.955    0.857    0.92

```

0.555

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      76/499      OG      0.02599    0.01006      0         44      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02411    0.0103      0         41      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02399    0.01021      0         40      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.0238     0.01066      0         55      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02384    0.01058      0         48      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02386    0.0105      0         51      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02391    0.01047      0         47      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02413    0.01067      0         51      320:
libpng warning: iCCP: known incorrect sRGB profile
      76/499      OG      0.02407    0.01071      0         11      320: 1
              Class      Images  Instances      P      R      mAP50
              all        347      369      0.906    0.862    0.92

```

0.542

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      77/499      OG      0.02414    0.01061      0         38      320:
libpng warning: iCCP: known incorrect sRGB profile
      77/499      OG      0.02419    0.01117      0         55      320:
libpng warning: iCCP: known incorrect sRGB profile
      77/499      OG      0.02431    0.01156      0         57      320:
libpng warning: iCCP: known incorrect sRGB profile
      77/499      OG      0.02373    0.01121      0         43      320:
libpng warning: iCCP: known incorrect sRGB profile
      77/499      OG      0.02379    0.0111      0         47      320:
libpng warning: iCCP: known incorrect sRGB profile
      77/499      OG      0.02435    0.01084      0         37      320:

```

libpng warning: iCCP: known incorrect sRGB profile	77/499	OG	0.02448	0.01081	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	77/499	OG	0.02442	0.01085	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile	77/499	OG	0.02431	0.01081	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile	77/499	OG	0.02421	0.0108	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	77/499	OG	0.02433	0.01072	0	7	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.915	0.829	0.886

0.517

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
78/499	OG	0.02377	0.01011	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02461	0.01101	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02491	0.01117	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02461	0.01106	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02409	0.01087	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.0239	0.01079	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02381	0.01091	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02353	0.01078	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02339	0.01068	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02321	0.01067	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02286	0.01062	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02298	0.01063	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02316	0.0107	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02314	0.01066	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02314	0.0106	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02334	0.01062	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile	78/499	OG	0.02337	0.01061	0	40	320:


```

libpng warning: iCCP: known incorrect sRGB profile
78/499      OG      0.02334      0.01059      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
78/499      OG      0.02338      0.01066      0      13      320: 1
              Class      Images      Instances      P      R      mAP50
              all      347      369      0.909      0.844      0.896

```

0.519

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
79/499      OG      0.02249      0.01156      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02263      0.01065      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02269      0.01045      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02244      0.01042      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02298      0.01068      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02324      0.01089      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02319      0.01086      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02327      0.01116      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02342      0.011      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02355      0.01112      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02354      0.01109      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02352      0.0111      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02361      0.01108      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02358      0.01096      0      34      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02356      0.01091      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02351      0.0109      0      34      320:
libpng warning: iCCP: known incorrect sRGB profile
79/499      OG      0.02342      0.01087      0      8      320: 1
              Class      Images      Instances      P      R      mAP50
              all      347      369      0.911      0.827      0.895

```

0.543

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
80/499	OG	0.02683	0.009067	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02418	0.01028	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02377	0.01013	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02372	0.009774	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.0237	0.009781	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02388	0.009771	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02444	0.01002	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02445	0.01018	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02449	0.01022	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02426	0.01033	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02418	0.01031	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02409	0.01034	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02401	0.01052	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02399	0.01052	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02392	0.01052	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02399	0.01065	0	58	320:
libpng warning: iCCP: known incorrect sRGB profile						
80/499	OG	0.02383	0.01073	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.896	0.848	0.905

0.535

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
81/499	OG	0.02022	0.008448	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
81/499	OG	0.02081	0.00901	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
81/499	OG	0.02204	0.01009	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile						

81/499	OG	0.02254	0.01052	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
81/499	OG	0.02251	0.01057	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
81/499	OG	0.02274	0.01067	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
81/499	OG	0.02305	0.01067	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
81/499	OG	0.02319	0.01062	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.909	0.851	0.904

0.528

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
82/499	OG	0.02272	0.0113	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02314	0.01084	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02289	0.01055	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02293	0.01057	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02312	0.01055	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02307	0.01068	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02291	0.0106	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02273	0.01069	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02294	0.01062	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
82/499	OG	0.02303	0.0107	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.907	0.824	0.903

0.543

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
83/499	OG	0.02257	0.01124	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
83/499	OG	0.02285	0.01083	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
83/499	OG	0.02282	0.01063	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
83/499	OG	0.02269	0.01065	0	56	320:

```

libpng warning: iCCP: known incorrect sRGB profile
83/499      OG      0.02275    0.01059      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
83/499      OG      0.02336    0.01076      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
83/499      OG      0.0235     0.0107      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
83/499      OG      0.02354    0.01079      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
83/499      OG      0.02343    0.01079      0      15      320: 1
              Class      Images  Instances      P      R      mAP50
              all        347      369      0.901    0.834    0.885
0.503

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      84/499      OG      0.02017    0.01027      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02076    0.0104      0      55      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02104    0.01049      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02137    0.01053      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02108    0.01041      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02095    0.01053      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02212    0.0108      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
84/499      OG      0.02258    0.01054      0      11      320: 1
              Class      Images  Instances      P      R      mAP50
              all        347      369      0.902    0.87    0.92
0.562

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      85/499      OG      0.0209     0.008832      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02317    0.01011      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02344    0.01105      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02262    0.01034      0      53      320:
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02316    0.01054      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02316    0.01071      0      46      320:

```

```

libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02341      0.01076      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02338      0.0108      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02334      0.01068      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02329      0.01056      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
85/499      OG      0.02319      0.01053      0      9      320: 1
          Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
          Class      Images  Instances      P      R      mAP50
          all      347      369      0.899      0.856      0.9

```

0.533

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances      Size
      86/499      OG      0.02096      0.01092      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02234      0.01083      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02235      0.01081      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02272      0.01075      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02302      0.011      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02286      0.01086      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02283      0.01088      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02281      0.01085      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02285      0.01082      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02284      0.01082      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
      86/499      OG      0.02305      0.01099      0      19      320: 1
          Class      Images  Instances      P      R      mAP50
          all      347      369      0.898      0.862      0.902

```

0.544

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances      Size
      87/499      OG      0.02312      0.01038      0      46      320:

```

libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02285	0.0106	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.0228	0.0106	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02307	0.01048	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02304	0.01043	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.0233	0.01044	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02329	0.0104	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02332	0.01033	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02309	0.01041	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02323	0.01053	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	87/499	OG	0.02334	0.01057	0	13	320: 1
		Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile		Class	Images	Instances	P	R	mAP50
		all	347	369	0.887	0.818	0.871

0.525

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
88/499	OG	0.02084	0.01004	0	42	320:	
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02439	0.01003	0	55	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02357	0.01054	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02379	0.01059	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02363	0.0105	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.0233	0.01048	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02311	0.01045	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02298	0.0104	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	88/499	OG	0.02287	0.01042	0	45	320:

```

libpng warning: iCCP: known incorrect sRGB profile
88/499      OG      0.02288      0.01046      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
88/499      OG      0.02304      0.01051      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
88/499      OG      0.02309      0.01051      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
88/499      OG      0.02316      0.01051      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
88/499      OG      0.02315      0.01049      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
88/499      OG      0.02321      0.01051      0      14      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.873      0.875      0.894

```

0.525

```

          Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
89/499      OG      0.02211      0.01023      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02218      0.01018      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02206      0.01006      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02189      0.0101      0      55      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02216      0.01003      0      33      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02219      0.0102      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02221      0.01023      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02226      0.01022      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.0223      0.01016      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02236      0.01015      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.02242      0.01009      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
89/499      OG      0.0224      0.01015      0      13      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.878      0.835      0.882

```

0.522

```

          Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
0%|          | 0/64 [00:00<?, ?it/s]libpng warning: iCCP: known incorrect sRGB
profile

```

90/499	OG	0.0218	0.009847	0	31	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.02222	0.009908	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.02229	0.009866	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.02238	0.01025	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.02222	0.01022	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.02254	0.01053	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.0225	0.01059	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
90/499	OG	0.02248	0.01057	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.896	0.862	0.908

0.541

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
91/499	OG	0.02335	0.009675	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02266	0.009894	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02248	0.01018	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02206	0.01005	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02257	0.01058	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02264	0.0105	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02256	0.01039	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02272	0.01032	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02266	0.01035	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02277	0.01031	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02278	0.01044	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02277	0.01033	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
91/499	OG	0.02279	0.01039	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.883	0.867	0.919

0.535

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
92/499	OG	0.02228	0.0101	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.02265	0.01032	0	58	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.0227	0.01036	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.02274	0.01028	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.02269	0.01039	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.02268	0.0104	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.02262	0.01037	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
92/499	OG	0.02252	0.01042	0	15	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.882	0.84	0.897

0.538

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
93/499	OG	0.02127	0.009506	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02158	0.009	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02175	0.008771	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02178	0.008815	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02187	0.009101	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02229	0.009603	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02245	0.009642	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02261	0.009898	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.0226	0.009893	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02259	0.009871	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02262	0.009829	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02259	0.009911	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
93/499	OG	0.02283	0.009886	0	10	320: 1

	Class	Images	Instances	P	R	mAP50
	all	347	369	0.871	0.839	0.878

0.511

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
94/499	OG	0.02084	0.008356	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02014	0.009282	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02022	0.00968	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02108	0.01002	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02191	0.00997	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.022	0.00986	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02215	0.01009	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02203	0.01003	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02189	0.01	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02189	0.01001	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02188	0.01002	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02186	0.01013	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
94/499	OG	0.02183	0.01018	0	7	320: 1

	Class	Images	Instances	P	R	mAP50
	all	347	369	0.853	0.832	0.862

0.484

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
95/499	OG	0.02092	0.008709	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
95/499	OG	0.02274	0.01017	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
95/499	OG	0.02313	0.01028	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
95/499	OG	0.02254	0.01011	0	40	320:

```

libpng warning: iCCP: known incorrect sRGB profile
 95/499      OG      0.02255    0.01012      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
 95/499      OG      0.0226     0.01023      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
 95/499      OG      0.0226     0.01038      0      13      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.918    0.867    0.911
0.531

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
 96/499      OG      0.0231    0.01047      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02328    0.009966      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02331    0.009937      0      33      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02306    0.01017      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02293    0.01019      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02286    0.01019      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02303    0.01026      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02297    0.01027      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02301    0.01029      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02302    0.01034      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02297    0.01035      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
 96/499      OG      0.02295    0.01031      0      13      320: 1
          Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.891    0.867    0.91
0.536

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
 97/499      OG      0.02469    0.0107      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
 97/499      OG      0.02374    0.009489      0      34      320:
libpng warning: iCCP: known incorrect sRGB profile
 97/499      OG      0.02338    0.01011      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile

```

97/499	OG	0.02375	0.01013	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02296	0.01013	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02316	0.01032	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02265	0.01039	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02232	0.01041	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02236	0.01037	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02254	0.01031	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02258	0.01032	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02257	0.01033	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
97/499	OG	0.02279	0.01026	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.878	0.822	0.881

0.51

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
98/499	OG	0.02585	0.01066	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02493	0.01032	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02228	0.0106	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02216	0.01051	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02162	0.01033	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02154	0.01037	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.0216	0.01031	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02156	0.01029	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02157	0.01025	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02171	0.01029	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02181	0.0104	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
98/499	OG	0.02187	0.01033	0	44	320:

```

libpng warning: iCCP: known incorrect sRGB profile
 98/499      OG      0.02199      0.01029      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
 98/499      OG      0.02208      0.01026      0      11      320: 1
              Class      Images      Instances      P      R      mAP50
              all      347      369      0.903      0.889      0.927

```

0.521

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
      99/499      OG      0.02114      0.01204      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
 99/499      OG      0.0234      0.01038      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
 99/499      OG      0.0225      0.01036      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
 99/499      OG      0.02237      0.01023      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
 99/499      OG      0.02259      0.01053      0      57      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 99/499      OG      0.02218      0.01021      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
 99/499      OG      0.02229      0.01017      0      12      320: 1
              Class      Images      Instances      P      R      mAP50
              all      347      369      0.896      0.862      0.917

```

0.535

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
     100/499      OG      0.02234      0.01273      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02211      0.0116      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02153      0.009774      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02148      0.009708      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02179      0.009854      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02169      0.009934      0      34      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02176      0.01007      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02176      0.01003      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.0218      0.01      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
     100/499      OG      0.02167      0.00997      0      41      320:

```

```
libpng warning: iCCP: known incorrect sRGB profile
100/499      OG      0.02172    0.01006      0      13      320: 1
              Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
              Class      Images  Instances      P      R      mAP50
              all        347      369      0.901    0.838    0.907
```

0.561

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
101/499	OG	0.02211	0.01024	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02232	0.01086	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02238	0.01041	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.0226	0.01051	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02241	0.01063	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02212	0.01034	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02207	0.01029	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02218	0.01022	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02197	0.01013	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02182	0.0102	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
101/499	OG	0.02212	0.01021	0	10	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.883	0.855	0.887

0.533

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
102/499	OG	0.02188	0.01011	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
102/499	OG	0.0223	0.01017	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
102/499	OG	0.02241	0.01019	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
102/499	OG	0.02237	0.01013	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
102/499	OG	0.02244	0.01033	0	51	320:

libpng warning: iCCP: known incorrect sRGB profile							
102/499	OG	0.02229	0.01026	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
102/499	OG	0.02235	0.01018	0	50	320:	
libpng warning: iCCP: known incorrect sRGB profile							
102/499	OG	0.02234	0.01021	0	42	320:	
libpng warning: iCCP: known incorrect sRGB profile							
102/499	OG	0.02232	0.01021	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile							
102/499	OG	0.02222	0.01022	0	46	320:	
libpng warning: iCCP: known incorrect sRGB profile							
102/499	OG	0.02222	0.0104	0	15	320:	1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.943	0.848	0.918	

0.542

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
103/499	OG	0.01995	0.01005	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02039	0.009916	0	48	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02064	0.01021	0	54	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02115	0.009899	0	44	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.0213	0.009826	0	39	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02087	0.009776	0	44	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.0209	0.009679	0	32	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.0214	0.01005	0	45	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02134	0.009982	0	35	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02132	0.01013	0	40	320:	
libpng warning: iCCP: known incorrect sRGB profile							
103/499	OG	0.02139	0.0101	0	8	320:	1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.878	0.862	0.895	

0.527

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
104/499	OG	0.0214	0.01071	0	42	320:	
libpng warning: iCCP: known incorrect sRGB profile							
104/499	OG	0.02169	0.01075	0	43	320:	
libpng warning: iCCP: known incorrect sRGB profile							
104/499	OG	0.02161	0.01067	0	40	320:	

```

libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.0214      0.01059      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.02135      0.01052      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.02135      0.01054      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.02122      0.0104      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.0215      0.01045      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.02148      0.01046      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
 104/499      OG      0.0214      0.01039      0      10      320: 1
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.916      0.851      0.915

```

0.549

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
    105/499      OG      0.02302      0.01313      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02128      0.009766      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02153      0.009949      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02171      0.01045      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02198      0.01033      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02207      0.01026      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02191      0.01047      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02192      0.01031      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02204      0.0103      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
    105/499      OG      0.02221      0.01038      0      10      320: 1
          Class      Images      Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
          Class      Images      Instances      P      R      mAP50
          all      347      369      0.911      0.836      0.91

```

0.547

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances      Size
    106/499      OG      0.02025      0.009235      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile

```


106/499	OG	0.02214	0.009542	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02256	0.009482	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.0221	0.009833	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02177	0.00982	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02202	0.009774	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02205	0.009957	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02201	0.009914	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.0219	0.01015	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02197	0.01015	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02196	0.01009	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02198	0.01011	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02207	0.01012	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.022	0.01005	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02199	0.01001	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
106/499	OG	0.02196	0.009974	0	8	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.89	0.857	0.891

0.524

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
107/499	OG	0.01894	0.01022	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
107/499	OG	0.02199	0.01027	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
107/499	OG	0.02247	0.009967	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
107/499	OG	0.0222	0.01005	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
107/499	OG	0.022	0.009999	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
107/499	OG	0.02189	0.0101	0	41	320:

```

libpng warning: iCCP: known incorrect sRGB profile
 107/499      OG    0.02183    0.01016      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
 107/499      OG    0.02185    0.01012      0      30      320:
libpng warning: iCCP: known incorrect sRGB profile
 107/499      OG    0.02194    0.01015      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
 107/499      OG    0.02202    0.01014      0       9      320: 1
      Class      Images  Instances      P      R      mAP50
      all        347      369      0.864    0.807    0.867
0.502

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
 108/499      OG      0.0225    0.009502      0       43      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02147    0.009969      0       44      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02142    0.0103      0       52      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02144    0.01025      0       41      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02147    0.01035      0       46      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02147    0.01031      0       47      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02129    0.0103      0       47      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02139    0.0102      0       40      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02139    0.01003      0       42      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.0215    0.01014      0       42      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02147    0.01012      0       41      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02153    0.01013      0       50      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02147    0.01021      0       45      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02146    0.01024      0       41      320:
libpng warning: iCCP: known incorrect sRGB profile
 108/499      OG      0.02147    0.01027      0       12      320: 1
      Class      Images  Instances      P      R      mAP50
      all        347      369      0.919    0.848    0.907
0.551

```

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
-------	---------	----------	----------	----------	-----------	------

109/499	OG	0.02084	0.009375	0	32	320:
libpng warning: iCCP: known incorrect sRGB profile						
109/499	OG	0.02091	0.009393	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
109/499	OG	0.02162	0.009646	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
109/499	OG	0.02157	0.009778	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
109/499	OG	0.02167	0.009801	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
109/499	OG	0.02174	0.009773	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
109/499	OG	0.02212	0.009995	0	10	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.868	0.84	0.891

0.515

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
110/499	OG	0.02061	0.01019	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02146	0.01019	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02119	0.01016	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02131	0.01002	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02151	0.01033	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02143	0.01003	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02138	0.009929	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.0215	0.009819	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02167	0.009723	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02176	0.009807	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02178	0.00977	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.0218	0.009772	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02177	0.00991	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
110/499	OG	0.02196	0.009907	0	7	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.873	0.851	0.898

0.521

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
111/499	OG	0.02051	0.009866	0	60	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02077	0.00973	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02125	0.009808	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02099	0.009822	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02121	0.0101	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02149	0.01019	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02131	0.009772	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02128	0.009839	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02123	0.009814	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.0212	0.00991	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02116	0.009884	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
111/499	OG	0.02157	0.01002	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile						
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.869	0.864	0.91

0.537

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
112/499	OG	0.02181	0.01044	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
112/499	OG	0.02151	0.01017	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
112/499	OG	0.02157	0.01026	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
112/499	OG	0.02166	0.01017	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
112/499	OG	0.02193	0.00997	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
112/499	OG	0.02186	0.009989	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
112/499	OG	0.02199	0.01004	0	51	320:

```

libpng warning: iCCP: known incorrect sRGB profile
 112/499      OG    0.02174  0.009931      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
 112/499      OG    0.02161  0.009984      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
 112/499      OG    0.02151  0.009962      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
 112/499      OG    0.02146  0.00991      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
 112/499      OG    0.02147  0.009938      0      11      320: 1
                Class    Images  Instances      P      R      mAP50
                all      347      369      0.893    0.797    0.882

```

0.499

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
    113/499      OG      0.0197    0.009675      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.01992  0.008993      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.0202    0.009074      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02075  0.009484      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.0206    0.00947      0      39      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02077  0.009651      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02075  0.009702      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.0212    0.009791      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02135  0.009916      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02136  0.009933      0      53      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02131  0.00991      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
    113/499      OG      0.02137  0.009939      0       7      320: 1
                Class    Images  Instances      P      R      mAP50
                all      347      369      0.912    0.859    0.916

```

0.538

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
0%|          | 0/64 [00:00<?, ?it/s]libpng warning: iCCP: known incorrect sRGB
profile
    114/499      OG      0.02177  0.009227      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile

```

114/499	OG	0.02123	0.009778	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02018	0.009924	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02016	0.009783	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02042	0.009917	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02057	0.00978	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02051	0.009778	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02072	0.009698	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02099	0.009703	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02103	0.009696	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02122	0.009794	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
114/499	OG	0.02123	0.009809	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile						
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.909	0.854	0.914

0.552

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
115/499	OG	0.02169	0.01017	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02098	0.009871	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02116	0.009725	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.0217	0.009908	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02162	0.01013	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02178	0.01011	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02178	0.01013	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02178	0.0103	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
115/499	OG	0.02173	0.01028	0	14	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.93	0.859	0.901

0.533

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
116/499	OG	0.02478	0.008906	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02396	0.009618	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02318	0.01003	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02353	0.01032	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02203	0.009632	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02178	0.009782	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02166	0.009727	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02149	0.009715	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02163	0.009835	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02173	0.009914	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
116/499	OG	0.02154	0.009914	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile						
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.877	0.812	0.888
0.508						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
117/499	OG	0.02336	0.01054	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02215	0.0103	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02181	0.009776	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02144	0.009463	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.0218	0.009477	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02169	0.009388	0	32	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02158	0.0093	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02144	0.009406	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						

117/499	OG	0.02156	0.009519	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.0215	0.009513	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02147	0.009632	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
117/499	OG	0.02137	0.00969	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.873	0.819	0.877

0.502

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
118/499	OG	0.02122	0.009687	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02079	0.009774	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02068	0.01003	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02113	0.0101	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02183	0.01011	0	29	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02141	0.009973	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02138	0.009933	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02148	0.009874	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02144	0.009867	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02151	0.009981	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02145	0.009956	0	37	320:
libpng warning: iCCP: known incorrect sRGB profile						
118/499	OG	0.02166	0.01005	0	15	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.887	0.786	0.858

0.497

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
119/499	OG	0.01883	0.0109	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
119/499	OG	0.02031	0.01052	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
119/499	OG	0.02097	0.01002	0	44	320:

libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02011	0.009521	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02074	0.009587	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02082	0.009681	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02086	0.009829	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02098	0.00998	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02075	0.00994	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02072	0.009918	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02081	0.009864	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	119/499	OG	0.02106	0.01001	0	14	320: 1
		Class	Images	Instances	P	R	mAP50
		all	347	369	0.931	0.835	0.914

0.547

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
120/499	OG	0.01869	0.009081	0	44	320:	
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.0214	0.00896	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02131	0.009574	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02113	0.01002	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02111	0.01002	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02131	0.009952	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02134	0.009938	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02131	0.009923	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02152	0.009949	0	58	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02148	0.01002	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile	120/499	OG	0.02133	0.01017	0	19	320: 1

	Class	Images	Instances	P	R	mAP50
	all	347	369	0.906	0.861	0.902

0.555

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
121/499	OG	0.02298	0.01114	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02259	0.01094	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02141	0.01023	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02139	0.01019	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02142	0.0102	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02145	0.01006	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02135	0.009984	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02134	0.00994	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02135	0.009947	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02142	0.01001	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02143	0.009983	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
121/499	OG	0.02138	0.01007	0	17	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.908	0.864	0.915

0.538

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02013	0.009617	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.01988	0.01016	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02031	0.01012	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02059	0.01023	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02074	0.01033	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
122/499	OG	0.02074	0.01038	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02071	0.01042	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02068	0.01035	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02071	0.0103	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02072	0.01029	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
122/499	OG	0.02091	0.0103	0	12	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.927	0.862	0.916

0.541

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
123/499	OG	0.02168	0.009141	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02154	0.009223	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02154	0.009355	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02162	0.009537	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02161	0.009616	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02151	0.009596	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.0213	0.009685	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.0216	0.009787	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02158	0.009791	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
123/499	OG	0.02163	0.009784	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.888	0.846	0.892

0.521

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
124/499	OG	0.01612	0.00922	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.0197	0.009246	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.02132	0.009388	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						

124/499	OG	0.02156	0.009522	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.02154	0.009732	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.02148	0.009759	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.02137	0.009757	0	54	320:
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.02137	0.0098	0	53	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
124/499	OG	0.02151	0.009872	0	10	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.926	0.846	0.897

0.514

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
125/499	OG	0.02111	0.01029	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02109	0.01015	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02085	0.01024	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02172	0.01026	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02155	0.01016	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.0214	0.00994	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02136	0.009928	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02114	0.009929	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02085	0.009886	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02075	0.009787	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02061	0.009798	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02066	0.009834	0	52	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02073	0.009899	0	51	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02089	0.009917	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02077	0.009889	0	50	320:
libpng warning: iCCP: known incorrect sRGB profile						
125/499	OG	0.02054	0.009627	0	43	320:

```

libpng warning: iCCP: known incorrect sRGB profile
125/499      OG      0.02035   0.009554      0      7      320: 1
              Class      Images  Instances      P      R      mAP50
              all      347      369      0.911      0.851      0.904

```

0.545

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
126/499      OG      0.02199    0.009263      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02266    0.01006      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02192    0.01059      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02077    0.009872      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02079    0.009892      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02074    0.009797      0      35      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02069    0.009829      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02075    0.009745      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02085    0.009672      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02079    0.009668      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
126/499      OG      0.02083    0.009643      0      10      320: 1
              Class      Images  Instances      P      R      mAP50
              all      347      369      0.882      0.813      0.866

```

0.522

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
127/499      OG      0.02029    0.009221      0      34      320:
libpng warning: iCCP: known incorrect sRGB profile
127/499      OG      0.02047    0.009952      0      51      320:
libpng warning: iCCP: known incorrect sRGB profile
127/499      OG      0.02023    0.009974      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
127/499      OG      0.02022    0.009842      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
127/499      OG      0.02028    0.00983      0      42      320:
libpng warning: iCCP: known incorrect sRGB profile
127/499      OG      0.02015    0.009744      0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
127/499      OG      0.02026    0.009627      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile

```

127/499	OG	0.02032	0.009622	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.02066	0.009498	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.02062	0.009472	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.02055	0.009357	0	33	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.02048	0.009397	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.02042	0.009403	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.02042	0.009394	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
127/499	OG	0.0205	0.009446	0	7	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning: iCCP: known incorrect sRGB profile						
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.851	0.807	0.849

0.492

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64	[00:00<?, ?it/s]	libpng warning: iCCP: known incorrect sRGB profile			
128/499	OG	0.02054	0.01037	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.01924	0.009402	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.01951	0.00961	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.02052	0.00956	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.0206	0.009389	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.02109	0.009752	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.02097	0.009703	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.02096	0.009787	0	57	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.021	0.009823	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.02116	0.009786	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile						
128/499	OG	0.02128	0.00982	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.889	0.848	0.897

0.542

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
129/499	OG	0.02142	0.01011	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02085	0.009862	0	34	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02128	0.009977	0	49	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02109	0.009821	0	32	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02106	0.009758	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02102	0.009663	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02084	0.009618	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02096	0.009756	0	59	320:
libpng warning: iCCP: known incorrect sRGB profile						
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02093	0.009718	0	40	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02094	0.009773	0	38	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.021	0.009781	0	46	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02093	0.009728	0	41	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02096	0.00977	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
129/499	OG	0.02113	0.009645	0	8	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.905	0.843	0.898

0.541

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
130/499	OG	0.01955	0.008878	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
130/499	OG	0.02053	0.009311	0	45	320:
libpng warning: iCCP: known incorrect sRGB profile						
130/499	OG	0.0205	0.0092	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
130/499	OG	0.0206	0.009233	0	42	320:
libpng warning: iCCP: known incorrect sRGB profile						
130/499	OG	0.02074	0.009183	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile						
130/499	OG	0.0207	0.009328	0	45	320:

```

libpng warning: iCCP: known incorrect sRGB profile
  130/499      OG    0.02079    0.00931      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
  130/499      OG    0.02076    0.009436     0      48      320:
libpng warning: iCCP: known incorrect sRGB profile
  130/499      OG    0.02074    0.009479     0      54      320:
libpng warning: iCCP: known incorrect sRGB profile
  130/499      OG    0.0207    0.009511     0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
  130/499      OG    0.02069    0.009627     0       9      320: 1
      Class      Images  Instances      P      R      mAP50
libpng warning: iCCP: known incorrect sRGB profile
      Class      Images  Instances      P      R      mAP50
      all        347      369      0.926    0.854    0.912

```

0.525

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
0%|          | 0/64 [00:00<?, ?it/s]libpng warning: iCCP: known incorrect sRGB
profile
  131/499      OG    0.01941    0.007788      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02264    0.007946      0      36      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02162    0.008906      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02146    0.009358      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02133    0.00927      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02116    0.009218      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02104    0.009171      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02111    0.009228      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02119    0.009338      0      61      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02113    0.009335      0      52      320:
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.0211    0.009352      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
  131/499      OG    0.02117    0.009395      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile

```



```

libpng warning: iCCP: known incorrect sRGB profile
131/499      OG      0.02116   0.009399      0      47      320:
libpng warning: iCCP: known incorrect sRGB profile
131/499      OG      0.02118   0.009624      0      15      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.925    0.821    0.91

```

0.536

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      132/499      OG      0.02105    0.009271      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02076    0.009242      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02083    0.00929      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02088    0.009271      0      46      320:
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02076    0.009255      0      40      320:
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02065    0.009268      0      49      320:
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02069    0.009255      0      43      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02073    0.009225      0      44      320:
libpng warning: iCCP: known incorrect sRGB profile
      132/499      OG      0.02068    0.009189      0      14      320: 1
          Class      Images  Instances      P      R      mAP50
          all        347      369      0.921    0.802    0.888

```

0.524

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances      Size
      133/499      OG      0.02112    0.01058      0      55      320:
libpng warning: iCCP: known incorrect sRGB profile
      133/499      OG      0.02197    0.01011      0      32      320:
libpng warning: iCCP: known incorrect sRGB profile
libpng warning: iCCP: known incorrect sRGB profile
      133/499      OG      0.02166    0.01026      0      50      320:
libpng warning: iCCP: known incorrect sRGB profile
      133/499      OG      0.02151    0.0102      0      45      320:
libpng warning: iCCP: known incorrect sRGB profile
      133/499      OG      0.02117    0.009979      0      41      320:
libpng warning: iCCP: known incorrect sRGB profile
      133/499      OG      0.02149    0.009942      0      38      320:
libpng warning: iCCP: known incorrect sRGB profile
      133/499      OG      0.02086    0.009906      0      37      320:
libpng warning: iCCP: known incorrect sRGB profile

```

133/499	OG	0.02062	0.009758	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile						
133/499	OG	0.0206	0.009733	0	39	320:
libpng warning: iCCP: known incorrect sRGB profile						
133/499	OG	0.02044	0.009712	0	48	320:
libpng warning: iCCP: known incorrect sRGB profile						
133/499	OG	0.02053	0.009795	0	56	320:
libpng warning: iCCP: known incorrect sRGB profile						
133/499	OG	0.02058	0.009822	0	44	320:
libpng warning: iCCP: known incorrect sRGB profile						
133/499	OG	0.02069	0.009911	0	13	320: 1
	Class	Images	Instances	P	R	mAP50
	all	347	369	0.897	0.847	0.897

0.538

Stopping training early as no improvement observed in last 100 epochs. Best results observed at epoch 33, best model saved as best.pt.

To update EarlyStopping(patience=100) pass a new patience value, i.e. `python train.py --patience 300` or use `--patience 0` to disable EarlyStopping.

134 epochs completed in 3.993 hours.

Optimizer stripped from runs/train/exp11/weights/last.pt, 14.3MB

Optimizer stripped from runs/train/exp11/weights/best.pt, 14.3MB

Validating runs/train/exp11/weights/best.pt...

Fusing layers...

Model summary: 157 layers, 7012822 parameters, 0 gradients, 15.8 GFLOPs

Class	Images	Instances	P	R	mAP50
all	347	369	0.943	0.835	0.911

0.574

Results saved to runs/train/exp11

```
[ ]: #clear cache
torch.cuda.empty_cache()
```

4.0.2 Load model with the training weights

this was trained on 50 images with 10 epoch , that's why results are not as expected but as we improved the training parameters better results are generated

```
[ ]: model = torch.hub.load('ultralytics/yolov5', 'custom', path='./yolov5/runs/
↳train/exp7/weights/last.pt')
```

Using cache found in /home/ubuntu/.cache/torch/hub/ultralytics_yolov5_master
YOLOv5 2023-4-18 Python-3.9.12 torch-2.0.0+cu117 CPU

Fusing layers...

Model summary: 157 layers, 7012822 parameters, 0 gradients, 15.8 GFLOPs

Adding AutoShape...

```
requirements: /home/ubuntu/.cache/torch/hub/requirements.txt not
found, check failed.
```

4.0.3 Check the trained model on random images

```
[ ]: img = './testImg/pic_031.jpg'
```

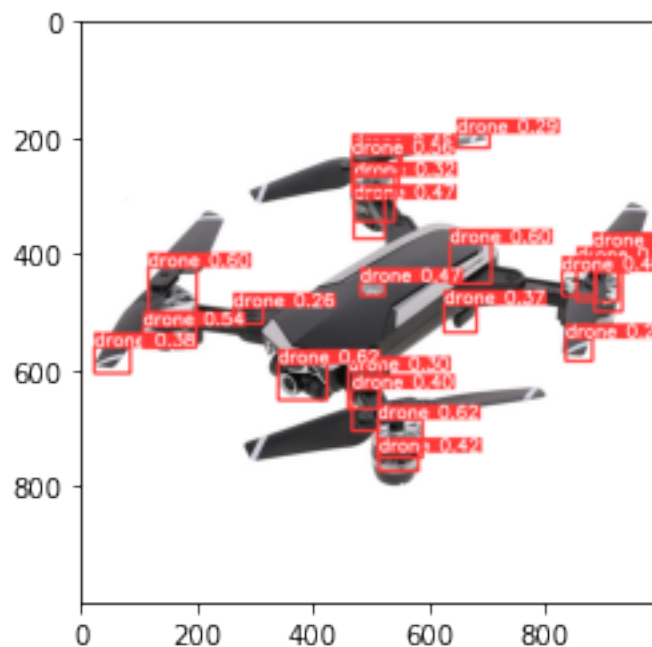
```
[ ]: results = model(img)
```

```
[ ]: results.print()
```

image 1/1: 1000x1000 22 drones

Speed: 17.3ms pre-process, 117.9ms inference, 1.0ms NMS per image at shape (1, 3, 640, 640)

```
[ ]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```



4.0.4 Model trained with 200 images ,batch 16 ,epochs 100 generates better results

```
[ ]: model = torch.hub.load('ultralytics/yolov5', 'custom', path='./yolov5/runs/
↳train/exp8/weights/last.pt',force_reload=True)
```

Downloading: "https://github.com/ultralytics/yolov5/zipball/master" to
/home/ubuntu/.cache/torch/hub/master.zip

YOLOv5 2023-4-18 Python-3.9.12 torch-2.0.0+cu117 CPU

Fusing layers...

Model summary: 157 layers, 7012822 parameters, 0 gradients, 15.8 GFLOPs

Adding AutoShape...

requirements: /home/ubuntu/.cache/torch/hub/requirements.txt not found, check failed.

```
[ ]: img = 'yolov5/drone_dataset/valid/images/0001.jpg'
```

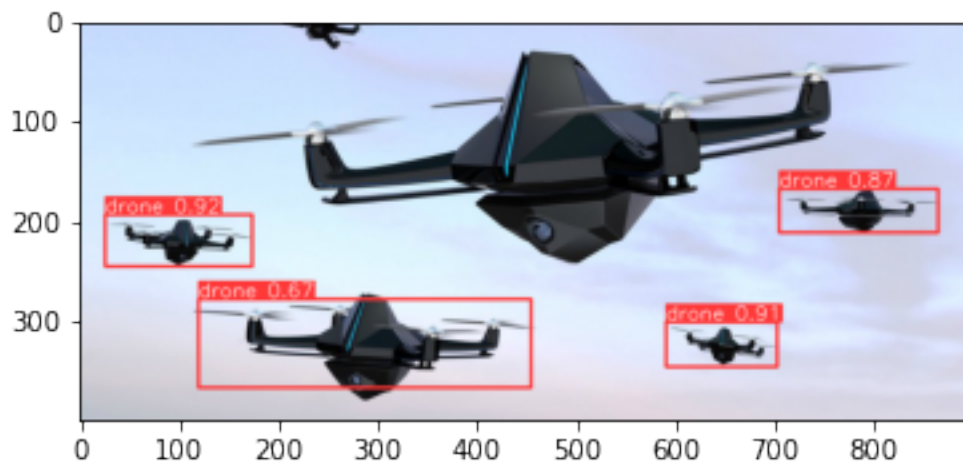
```
[ ]: results = model(img)
```

```
[ ]: results.print()
```

image 1/1: 400x900 4 drones

Speed: 6.1ms pre-process, 50.5ms inference, 0.6ms NMS per image at shape (1, 3, 288, 640)

```
[ ]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```



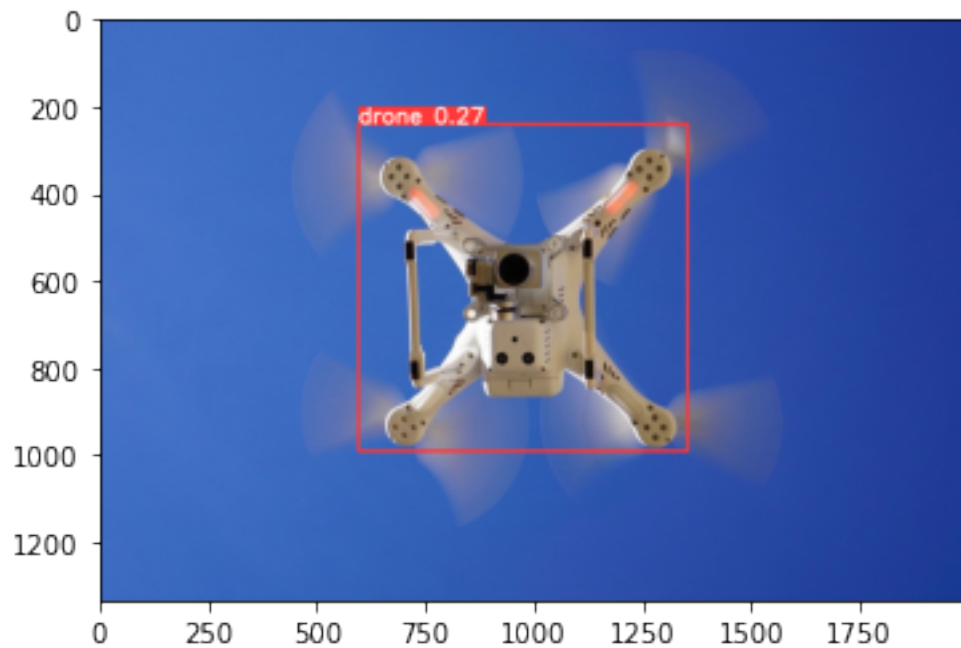
```
[ ]: img2='yolov5/drone_dataset/valid/images/0003.jpg'
```

```
[ ]: results = model(img2)
results.print()
```

image 1/1: 1334x2000 1 drone

Speed: 23.5ms pre-process, 70.8ms inference, 0.7ms NMS per image at shape (1, 3, 448, 640)

```
[ ]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```



```
[ ]: img3='yolov5/drone_dataset/valid/images/0022.jpg'
results = model(img3)
results.print()
```

image 1/1: 1125x2000 1 drone

Speed: 39.0ms pre-process, 75.8ms inference, 1.0ms NMS per image at shape (1, 3, 384, 640)

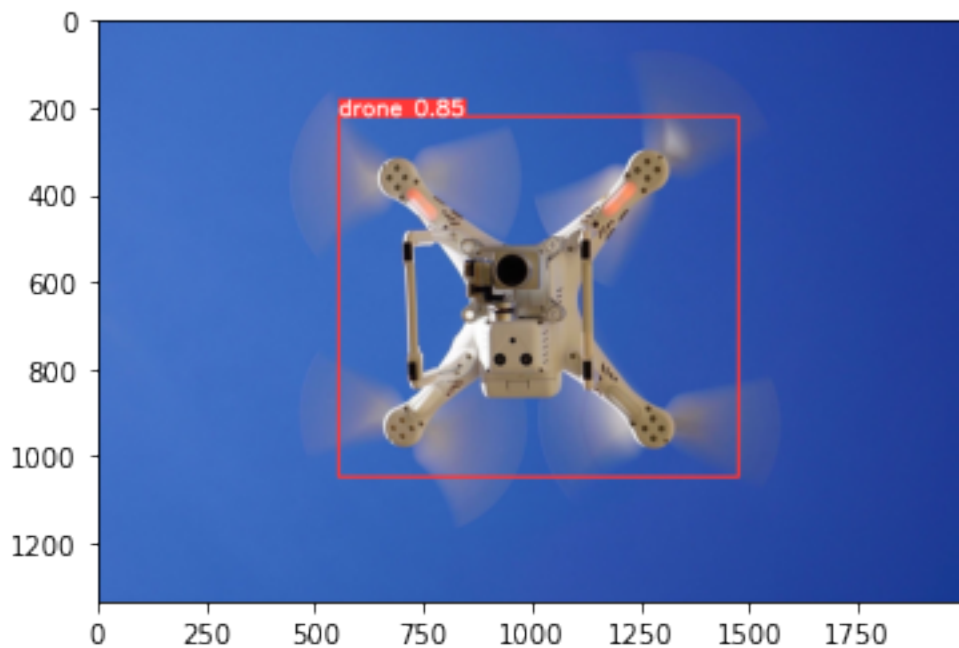
```
[ ]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```


Model summary: 157 layers, 7012822 parameters, 0 gradients, 15.8 GFLOPs
Adding AutoShape...

```
[ ]: results = model(img2)
      results.print()
```

image 1/1: 1334x2000 1 drone
Speed: 53.0ms pre-process, 136.7ms inference, 1.1ms NMS per image at shape (1, 3, 448, 640)

```
[ ]: %matplotlib inline
      plt.imshow(np.squeeze(results.render()))
      plt.show()
```



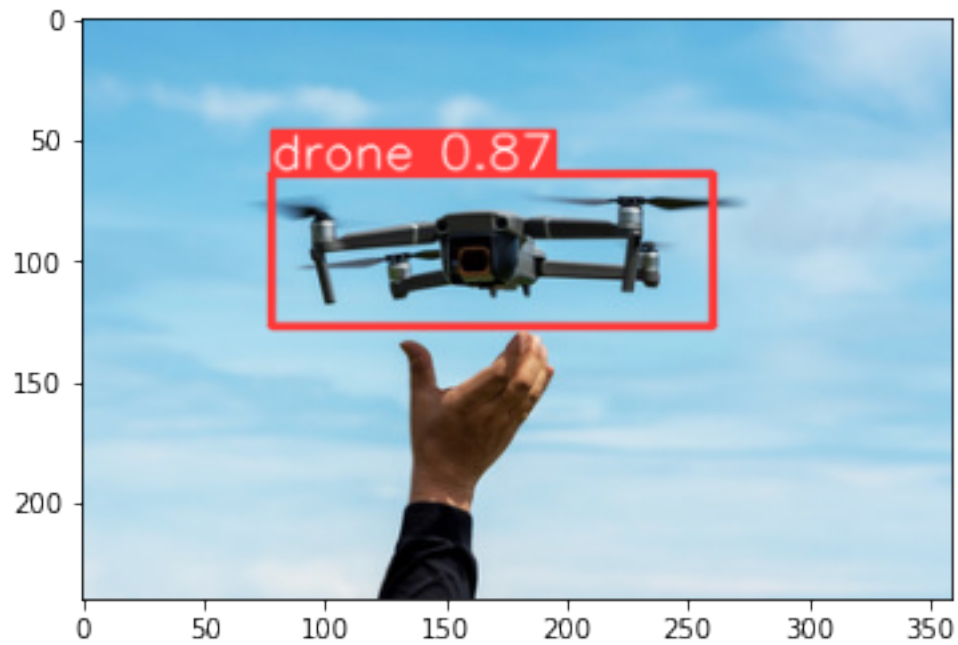
```
[ ]: img3='https://t4.ftcdn.net/jpg/02/79/18/93/
      ↪240_F_279189314_10Q26uuGduEwRsI9uU24cCUMeR1JVzeM.jpg'
```

```
[ ]: results = model(img3)
      results.print()
```

image 1/1: 240x360 1 drone
Speed: 149.9ms pre-process, 80.5ms inference, 0.6ms NMS per image at shape (1, 3, 448, 640)

```
[ ]: %matplotlib inline
      plt.imshow(np.squeeze(results.render()))
```

```
plt.show()
```

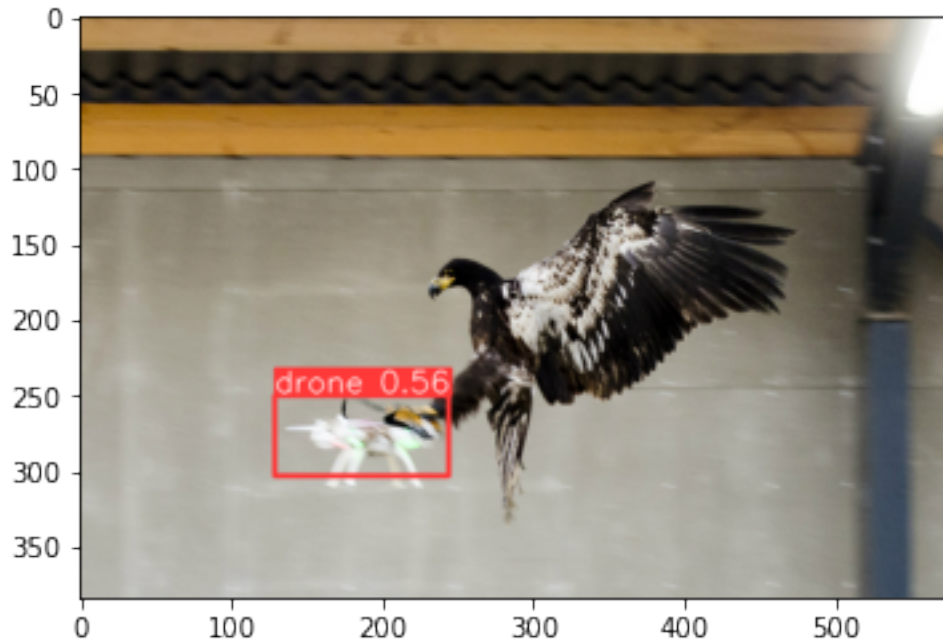


```
[ ]: img5='https://assets1.cbsnewsstatic.com/hub/i/2016/02/08/  
↪448e33ed-b4e1-4a65-9952-86204fbef687/raptors-disable-drones.jpg'
```

```
[ ]: results = model(img5)  
results.print()
```

```
image 1/1: 384x575 1 drone  
Speed: 7241.7ms pre-process, 83.6ms inference, 0.6ms NMS per image at shape (1,  
3, 448, 640)
```

```
[ ]: %matplotlib inline  
plt.imshow(np.squeeze(results.render()))  
plt.show()
```

```
[ ]: img6 = 'https://i.dailymail.co.uk/i/pix/2015/09/10/11/  
↪2C24B60A00000578-3229121-image-a-21_1441880649692.jpg'
```

```
[ ]: results = model(img6)  
results.print()
```

```
image 1/1: 414x634 1 drone  
Speed: 235.5ms pre-process, 71.2ms inference, 0.6ms NMS per image at shape (1,  
3, 448, 640)
```

```
[ ]: %matplotlib inline  
plt.imshow(np.squeeze(results.render()))  
plt.show()
```



```
[ ]: img4= 'data/images/awake.8a2dd4ba-dcf6-11ed-a319-8111b5023eaf.jpg'
```

```
[ ]: result=model(img4)
result.print()
```

image 1/1: 480x640 1 drone

Speed: 4.5ms pre-process, 75.8ms inference, 0.6ms NMS per image at shape (1, 3, 480, 640)

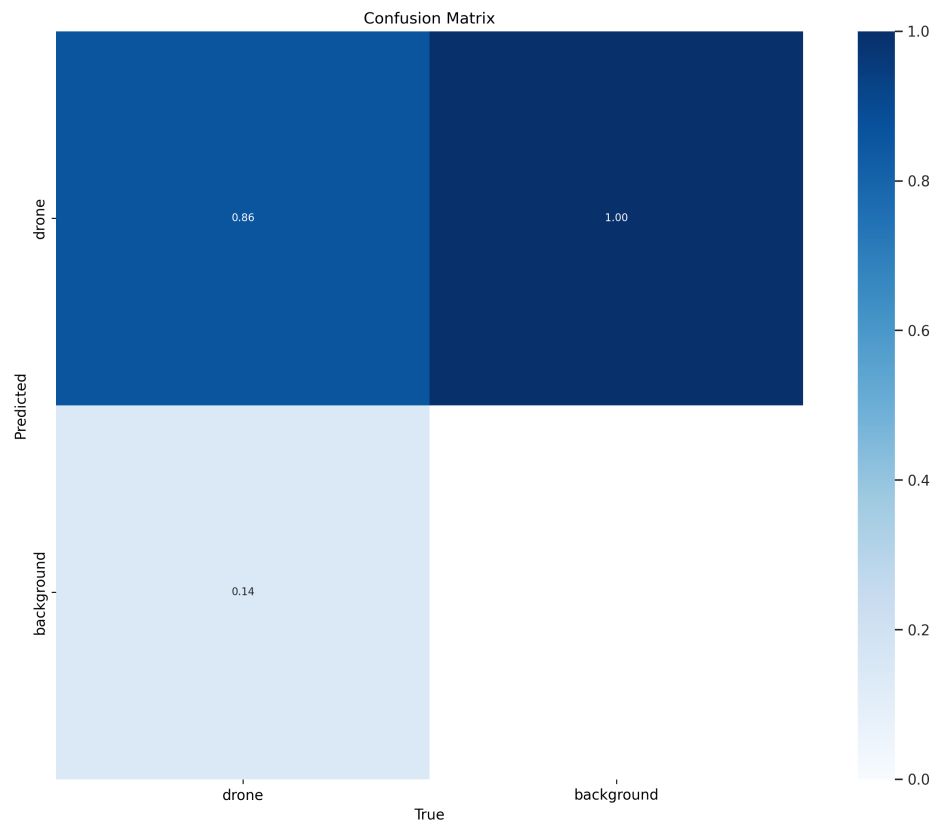
```
[ ]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```



5 Results

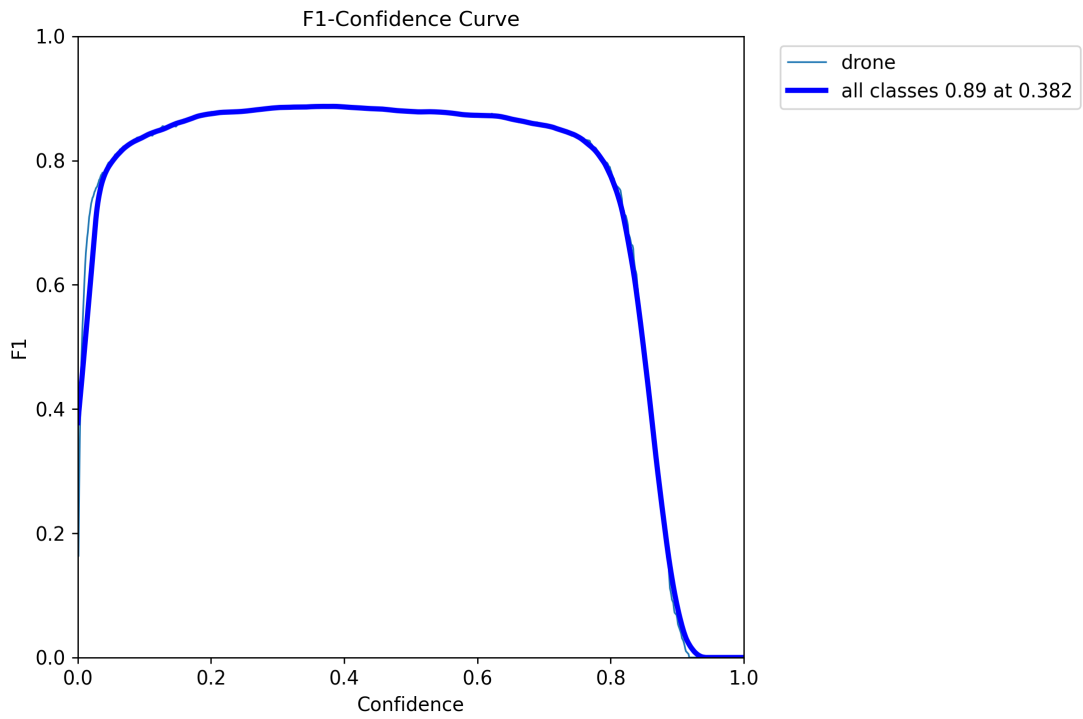
```
[ ]: from IPython.display import Image  
Image(filename='./yolov5/runs/train/exp11/confusion_matrix.png')
```

```
[ ]:
```



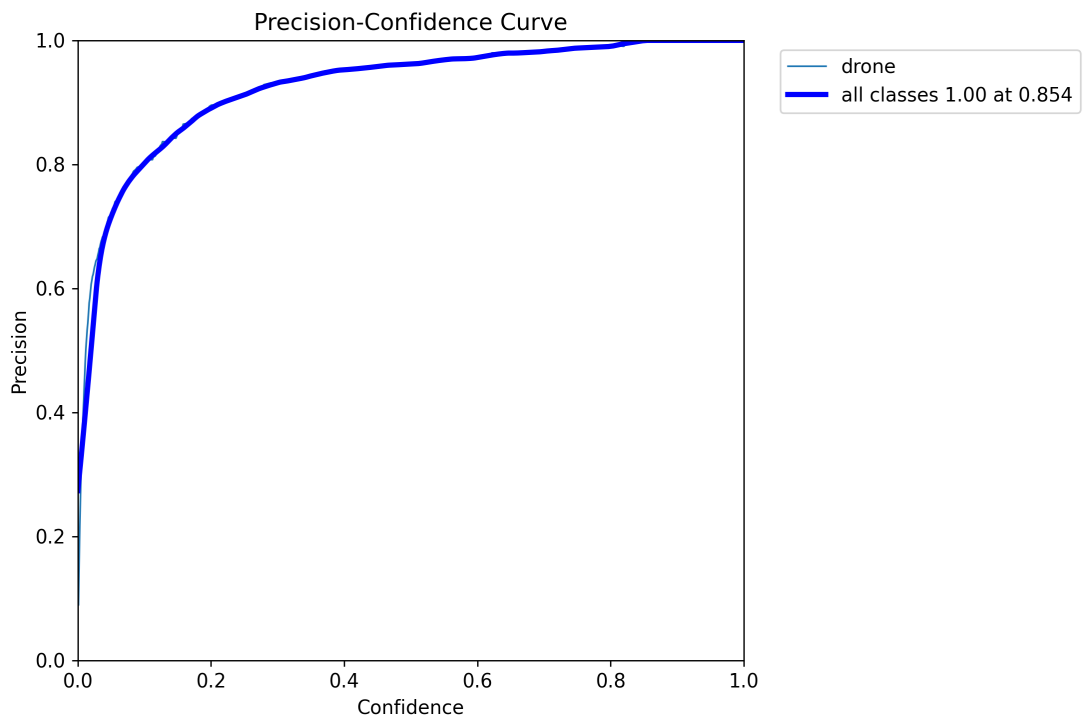
```
[ ]: Image(filename='./yolov5/runs/train/exp11/F1_curve.png')
```

```
[ ]:
```



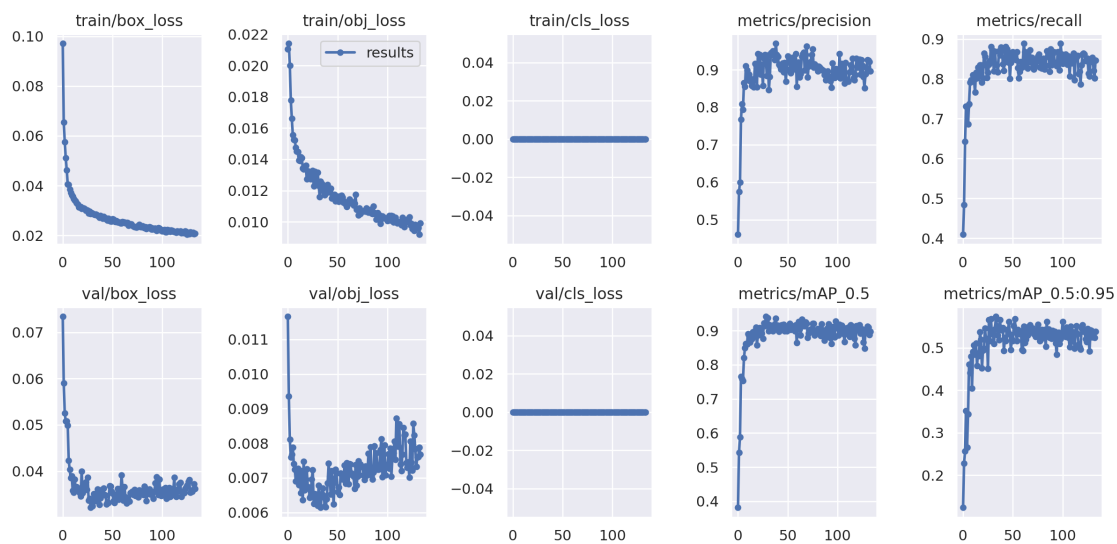
```
[ ]: Image(filename="./yolov5/runs/train/exp11/P_curve.png")
```

```
[ ]:
```



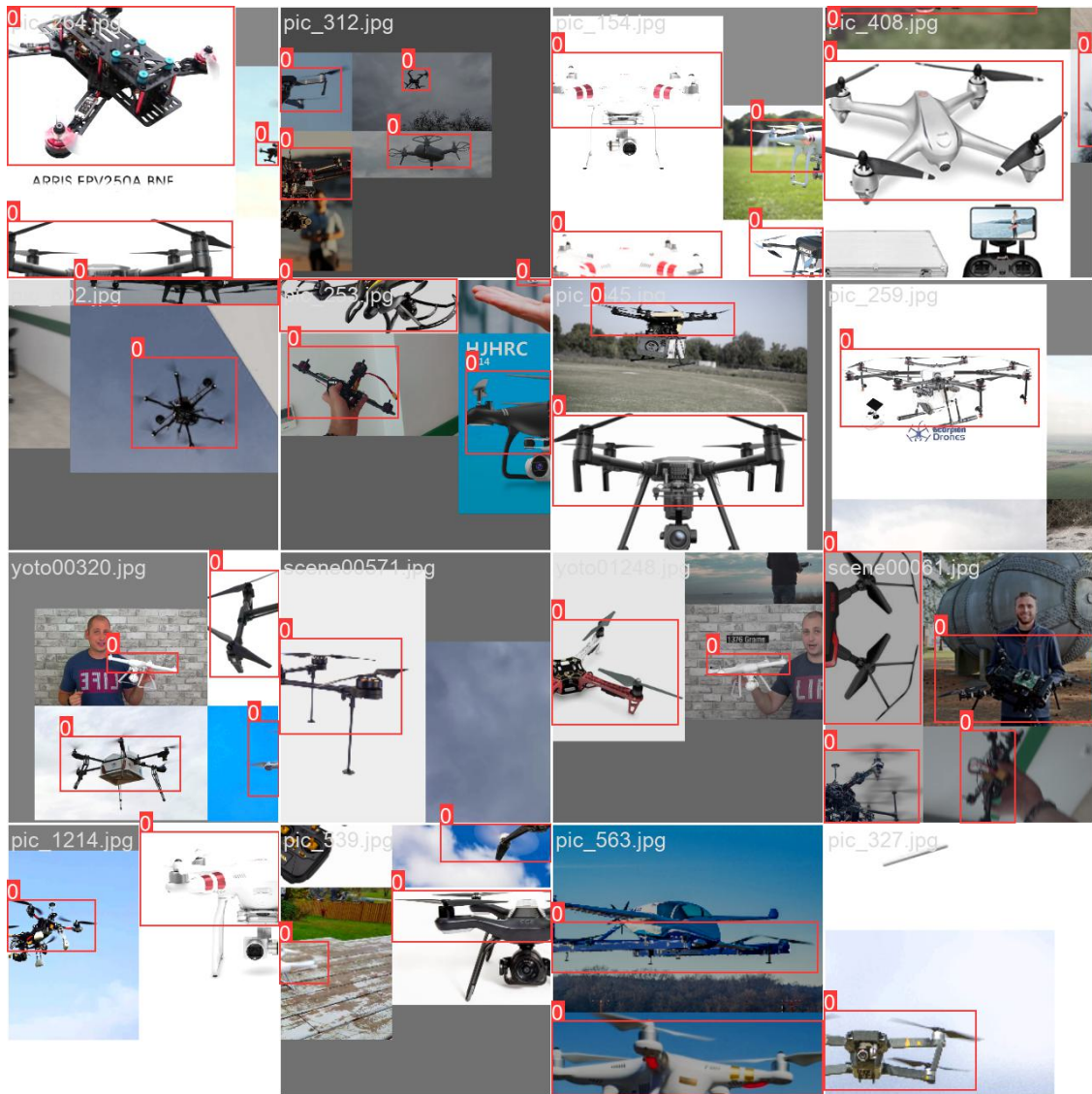
```
[ ]: Image(filename='./yolov5/runs/train/exp11/results.png')
```

```
[ ]:
```



```
[ ]: Image(filename='./yolov5/runs/train/exp11/train_batch0.jpg')
```

```
[ ]:
```



[]: