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 -fu
      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: opency-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

./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

```
/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. 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 3. Make Detections with Images

```
[]: 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()
```

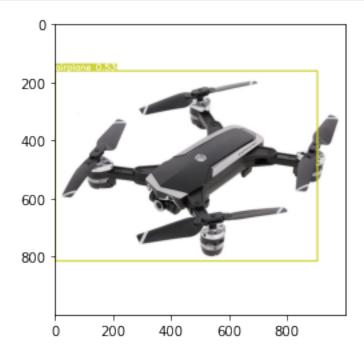


```
[]: results = model("./testImg/pic_031.jpg")
results.print()
```

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

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]	1				
8		1	1182720	models.common.C3	
[512, 512, 1]	_	_			
9	-1	1	656896	models.common.SPPF	
[512, 512, 5]	-	-	00000	model D. Common. D. 1.1	
10	-1	1	131584	models.common.Conv	
[512, 256, 1, 1]		-	101001	model D. Common. Conv	
11	-1	1	0	torch.nn.modules.upsampling.Upsample	
[None, 2, 'neare		-	· ·	toron.mr.modarob.apsampring.opsampro	
	-1, 6]	1	0	models.common.Concat	[1]
13	-1	1		models.common.C3	[1]
[512, 256, 1, Fa		_	301304	moders.common.oo	
14	-1	1	33004	models.common.Conv	
		1	33024	models.common.comv	
[256, 128, 1, 1]		4	0	touch an modulog ungomaling Hagamalo	
15	-1	Т	0	torch.nn.modules.upsampling.Upsample	
[None, 2, 'neare		1	^	madala samman Canasa	[4]
	-1, 4]	1	0		[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
                           296448 models.common.C3
                  -1 1
[256, 256, 1, False]
                           590336 models.common.Conv
[256, 256, 3, 2]
             [-1, 10] 1
                                0 models.common.Concat
                                                                           [1]
22
                          1182720 models.common.C3
23
                  -1 1
[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 ${\tt runs/train/exp11}$

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: kn	own incorre	ect sRGB pr	ofile		
0/499	OG	0.1242	0.01469	0	38	320:
libpng warning:	iCCP: kn	own incorre	ect sRGB pr	ofile		
0/499	OG	0.1246	0.01463	0	38	320:
libpng warning:	iCCP: kn	own incorre	ect sRGB pr	ofile		
0/499	OG	0.1213	0.01613	0	35	320:
libpng warning:	iCCP: kn	own incorre	ect sRGB pr	ofile		
0/499	OG	0.1128	0.01794	0	42	320:
libpng warning:	iCCP: kn	own incorre	ect sRGB pr	ofile		
0/499	OG	0.1068	0.01919	0	42	320:

libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
0/499		0.1064	0.01936	0	50	320:
libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
0/499	OG (0.1042	0.01979	0	48	320:
libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
0/499	OG (0.1007	0.02043	0	44	320:
libpng warning:			t sRGB prof	file		
0/499		.09864	0.02074	0	37	320:
libpng warning:			_	file		
0/499		.09711	0.02104	0	16	320: 1
		Images I		Р	R	mAP50
	all	347	369	0.461	0.409	0.382
0.123						
Epoch (GPU_mem box	x loss	obj_loss	cls loss	Instances	Size
1/499		.06727	-	0	50	320:
libpng warning:				-	30	020.
1/499		0.0697	0.02365	0	47	320:
libpng warning:						
1/499		.06941	0.02371	0	46	320:
libpng warning:				file		
1/499		.06909	0.02288	0	42	320:
libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
1/499	OG O	.06874	0.02271	0	45	320:
libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
1/499	OG O	.06779	0.02233	0	40	320:
libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
1/499	OG O	.06761	0.02238	0	43	320:
libpng warning:	iCCP: known	incorrec	t sRGB prof	file		
1/499		.06753	0.02237	0	46	320:
libpng warning:			-			
1/499		.06733	0.02235	0	42	320:
libpng warning:			_			
1/499		.06687	0.022	0	42	320:
libpng warning:			-			
1/499		.06639	0.0219	0	57	320:
libpng warning:			-		F.0	200
1/499		0.0662	0.02169	0	50	320:
libpng warning:			-		4.1	200.
1/499		0.0661	0.02164	0	41	320:
libpng warning: 1/499		incorrec .06544	t skGB proi 0.02141		7	320: 1
1/433		.06544 Images I		0 P	7 R	mAP50
	all	images i 347	369	0.575	0.484	0.543
0.228	Q.L.I.	011	505	0.070	0.404	0.040

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	00 0.06150 0.00161	E-4	200.
2/499	0G 0.06159 0.02161 0	51	320:
2/499	iCCP: known incorrect sRGB profile 0G 0.06005 0.021 0	48	320:
_,,	OG 0.06005 0.021 0 iCCP: known incorrect sRGB profile	40	320:
2/499	0G 0.06023 0.02086 0	51	320:
	iCCP: known incorrect sRGB profile	51	320.
2/499	0G 0.05984 0.02084 0	39	320:
	iCCP: known incorrect sRGB profile	39	320.
2/499	0G 0.0597 0.02096 0	57	320:
	iCCP: known incorrect sRGB profile	01	020.
2/499	0G 0.0592 0.02053 0	38	320:
·	iCCP: known incorrect sRGB profile	30	020.
2/499	0G 0.05935 0.02045 0	38	320:
	iCCP: known incorrect sRGB profile	00	020.
2/499	0G 0.05899 0.0203 0	41	320:
·	iCCP: known incorrect sRGB profile		020.
2/499	0G 0.05874 0.0202 0	45	320:
	iCCP: known incorrect sRGB profile		0_0.
2/499	0G 0.0583 0.02014 0	41	320:
•	iCCP: known incorrect sRGB profile		
2/499	0G 0.05813 0.02019 0	48	320:
	iCCP: known incorrect sRGB profile		
2/499	0G 0.05797 0.02014 0	45	320:
libpng warning:	iCCP: known incorrect sRGB profile		
2/499	0G 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 In:	stances	Size
Epoch 3/499	GPU_mem box_loss obj_loss cls_loss Ins	stances 44	
3/499			Size
3/499	OG 0.05336 0.01795 0		Size
3/499 libpng warning: 3/499 libpng warning:	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile	44	Size 320: 320:
3/499 libpng warning: 3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0	44	Size 320:
3/499 libpng warning: 3/499 libpng warning: 3/499 libpng warning:	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile	44 44 37	Size 320: 320: 320:
3/499 libpng warning: 3/499 libpng warning: 3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0	44 44	Size 320: 320:
3/499 libpng warning: 3/499 libpng warning: 3/499 libpng warning: 3/499 libpng warning:	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile	44 44 37 42	Size 320: 320: 320:
3/499 libpng warning: 3/499 libpng warning: 3/499 libpng warning: 3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0	44 44 37	Size 320: 320: 320:
3/499 libpng warning:	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile	4444374238	Size 320: 320: 320: 320:
3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile OG 0.0528 0.0183 0	44 44 37 42	Size 320: 320: 320:
3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile OG 0.0528 0.0183 0 iCCP: known incorrect sRGB profile	44 44 37 42 38 49	Size 320: 320: 320: 320: 320:
3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile OG 0.0528 0.0183 0 iCCP: known incorrect sRGB profile OG 0.05273 0.01834 0	4444374238	Size 320: 320: 320: 320:
3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile OG 0.0528 0.0183 0 iCCP: known incorrect sRGB profile OG 0.05273 0.01834 0 iCCP: known incorrect sRGB profile	44 44 37 42 38 49 47	Size 320: 320: 320: 320: 320: 320:
3/499 libpng warning: 3/499	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile OG 0.0528 0.0183 0 iCCP: known incorrect sRGB profile OG 0.05273 0.01834 0 iCCP: known incorrect sRGB profile OG 0.05255 0.01826 0	44 44 37 42 38 49	Size 320: 320: 320: 320: 320:
3/499 libpng warning: 3/499 libpng warning:	OG 0.05336 0.01795 0 iCCP: known incorrect sRGB profile OG 0.05309 0.01806 0 iCCP: known incorrect sRGB profile OG 0.05311 0.01789 0 iCCP: known incorrect sRGB profile OG 0.0532 0.01848 0 iCCP: known incorrect sRGB profile OG 0.05305 0.01824 0 iCCP: known incorrect sRGB profile OG 0.0528 0.0183 0 iCCP: known incorrect sRGB profile OG 0.05273 0.01834 0 iCCP: known incorrect sRGB profile	44 44 37 42 38 49 47	Size 320: 320: 320: 320: 320: 320:

3/499	OG 0.05216 0.018	0	41	320:
libpng warning: 3/499	iCCP: known incorrect sRGB profile OG 0.05151 0.0176	0	40	320:
libpng warning: 3/499	iCCP: known incorrect sRGB profile OG 0.05147 0.01756	0	42	320:
•	iCCP: known incorrect sRGB profile	0	42	320:
3/499	OG 0.05109 0.01779	0	16	320: 1
	Class Images Instances	Р	R	mAP50
	all 347 369 0.	768	0.732	0.765
0.351				
Epoch	GPU_mem box_loss obj_loss cls_l	oss	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:
	iCCP: known incorrect sRGB profile			
	iCCP: known incorrect sRGB profile			
4/499	OG 0.04703 0.01689	0	48	320:
	iCCP: known incorrect sRGB profile			
4/499	OG 0.04674 0.01671	0	40	320:
libpng warning: 4/499	iCCP: known incorrect sRGB profile 0G 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:
1 0 0	iCCP: known incorrect sRGB profile			
4/499	OG 0.04727 0.01669	0	35	320:
	iCCP: known incorrect sRGB profile			
4/499	0G 0.04675 0.01658	0	39	320:
	iCCP: known incorrect sRGB profile			
	iCCP: known incorrect sRGB profile			
	iCCP: known incorrect sRGB profile	•	4.77	200
4/499	0G 0.04682 0.01657	0	47	320:
	iCCP: known incorrect sRGB profile	0	40	200
4/499	0G 0.0466 0.01687	0	49	320:
4/499	iCCP: known incorrect sRGB profile OG 0.04658 0.01686	0	40	200.
	iCCP: known incorrect sRGB profile	0	42	320:
4/499	0G 0.04658 0.01682	0	43	320:
	iCCP: known incorrect sRGB profile	U	40	320.
4/499	0G 0.04658 0.01679	0	40	320:
	iCCP: known incorrect sRGB profile	J	-10	020.
4/499	0G 0.0466 0.01672	0	38	320:

libpng warning:	iCCP: know	wn incorr	ect sRGB pro	file			
4/499	OG	0.04662	0.01676	0	47	320:	
libpng warning:			_	file			
4/499	OG	0.04625	0.01662	0	8	320:	1
	Class	•	Instances	P	R	mAP50	
0.000	all	347	369	0.809	0.732	0.758	
0.266							
Epoch (GPU_mem	how load	obj_loss	cla loga	Instances	Size	
5/499	og OG	0.04204	0.0153	0	43	320:	
libpng warning:					40	520.	
5/499	OG	0.04107	0.01499	0	46	320:	
libpng warning:					10	020.	
libpng warning:			-				
5/499	OG	0.04116	0.01502	0	41	320:	
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	file			
5/499	OG	0.04108	0.01513	0	44	320:	
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	file			
5/499	OG	0.04098	0.01527	0	36	320:	
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	file			
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	file			
5/499	OG	0.04087	0.01532	0	42	320:	
libpng warning:			-				
5/499	OG	0.04097	0.01563	0	52	320:	
libpng warning:			-				
5/499	OG	0.04088	0.01564	0	45	320:	
libpng warning:			-		27	200	
5/499	OG	0.04066	0.01561	0	37	320:	
libpng warning: 5/499	OG	wn incorr 0.0406	ect skGB pro 0.01556	0	36	320:	
libpng warning:					30	320.	
5/499	0G	0.04059	0.01554	0	46	320:	
libpng warning:					10	020.	
5/499	OG	0.04062	0.01556	0	12	320:	1
2, 222	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: know	wn incorr	ect sRGB pro	file			
6/499	OG	0.03971	0.01631	0	42	320:	
libpng warning:			-				
6/499	OG	0.04013	0.01507	0	36	320:	
libpng warning:			_				
6/499	0G	0.04025	0.01501	0	40	320:	
libpng warning:			_		A A	200	
6/499	OG	0.04027	0.01542	0	44	320:	

libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
6/499	OG	0.04049	0.01537	0	42	320:
libpng warning:			_			
6/499	0G	0.04056	0.0152	0	39	320:
libpng warning: 6/499	OG OG	own incorr 0.04053	ect skGB pro 0.01513	ofile 0	37	320:
libpng warning:					31	320.
6/499	OG	0.04046	0.01517	0	38	320:
libpng warning:				ofile		
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	hor loss	obj_loss	cla loss	Instances	Size
7/499	OG OG	0.0377	0.0161	0	48	320:
libpng warning:				-	10	020.
7/499	OG	0.03841	0.01529	0	42	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
7/499	OG	0.03793	0.0157	0	50	320:
libpng warning:			-	ofile		
7/499	OG	0.03941	0.01645	0	65	320:
libpng warning:			-		4.0	200
7/499 libpng warning:	OG	0.03989	0.01607	0 afile	40	320:
7/499	OG	0.03952	0.0159	0	49	320:
libpng warning:					10	020.
7/499	OG	0.0394	0.01582	0	45	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
7/499	OG	0.03917	0.01547	0	34	320:
libpng warning:			-	ofile		
7/499	OG	0.0392	0.01552	0	40	320:
libpng warning:			-		07	200
7/499 libpng warning:	OG	0.03936	0.01499	0 Ofilo	37	320:
7/499	OG	0.03934	0.01512	0	50	320:
libpng warning:					00	020.
7/499	OG	0.03923	0.01511	0	38	320:
libpng warning:	iCCP: kn	own incorr		ofile		
7/499	OG	0.03893	0.01517	0	43	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
7/499	OG	0.03867	0.01501	0	36	320:
libpng warning:			-			
7/499	0G	0.03841	0.01524	0	10	320: 1
	Class all	Images 347	Instances 369	P 0.855	R 0.791	mAP50 0.849
0.441	атт	341	309	0.005	0.191	0.049
V. 111						

Epoch	GPU_mem b	ox_loss	obj_loss	cls_loss	Instances	Size	
8/499	OG	0.03671	0.01462	0	46	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499	OG	0.03677	0.01461	0	44	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499	OG	0.03689	0.01482	0	39	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499	OG	0.03699	0.0148	0	50	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499		0.03694	0.01478	0	51	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499	OG	0.03744	0.01473	0	42	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499	OG	0.03742	0.01466	0	43	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
8/499		0.03728	0.01466	0	47	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile			
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 b	ox loss	obj_loss	cls loss	Instances	Size	
9/499	_	0.03416	0.01279	- 0	35	320:	
libpng warning:				ofile			
libpng warning:			-				
9/499	OG	0.0361	0.01377	0	44	320:	
libpng warning:				ofile			
9/499		0.03596	0.0136	0	38	320:	
libpng warning:							
9/499	OG	0.03639	0.01359	0	42	320:	
libpng warning:							
libpng warning:			-				
9/499	OG	0.03684	0.01374	0	42	320:	
libpng warning:							
9/499	OG	0.03668	0.01401	0	53	320:	
libpng warning:						3231	
9/499	OG	0.03669	0.01405	0	48	320:	
libpng warning:					10	0201	
9/499		0.03666	0.01411	0	50	320:	
libpng warning:						0201	
9/499	OG OG	0.03604	0.01429	0	47	320:	
libpng warning:						0201	
9/499	OG	0.03593	0.01449	0	39	320:	
libpng warning:					0.0	020.	
9/499	OG OG	0.03595	0.01451	0	51	320:	
libpng warning:					01	020.	
9/499	OG OG	0.03629	0.01449	0	10	320:	1
0, 100	5 4		0.01110	J	10	020.	-

	Class	Images	Instances	Р	R	mAP50
	all	347	369	0.899	0.794	0.861
0.405						
Epoch	GPU_mem	box_loss	obi loss	cls_loss	Instances	Size
10/499	OG OG	0.03687	0.01559	0	44	320:
libpng warning:				-		020.
10/499	OG	0.03519	0.01397	0	43	320:
libpng warning:			ect sRGB pr	ofile		
10/499	OG	0.03473	0.01387	0	39	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03506	0.01423	0	56	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03527	0.01431	0	51	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.0353	0.01427	0	42	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03524	0.01423	0	48	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03526	0.01423	0	44	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03549	0.01435	0	39	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03551	0.01435	0	44	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
10/499	OG	0.03532	0.01434	0	45	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
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 [0	0:00 , ?i</td <td>t/s]libpng</td> <td>warning: iC</td> <td>CP: known i</td> <td>ncorrect sRGB</td>	t/s]libpng	warning: iC	CP: known i	ncorrect sRGB
profile						
11/499	OG	0.03232	0.01358	0	47	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
11/499	OG	0.03265	0.01344	0	49	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
11/499	OG	0.03415	0.01373	0	50	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
11/499	OG	0.0344	0.01357	0	38	320:
libpng warning:			ect sRGB pr	ofile		
11/499	OG	0.03522	0.01424	0	50	320:
libpng warning:			ect sRGB pr	ofile		
11/499	OG	0.03504	0.01429	0	46	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
11/499	OG	0.03463	0.01379	0	37	320:

libpng warning:	iCCP: known	incorr	ect sRGR nro	ofile			
11/499		.03459	0.01378	0	36	320:	
libpng warning:						020.	
11/499		.03473	0.01385	0	42	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
11/499	OG O	.03469	0.01397	0	44	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
11/499	OG O	.03472	0.01398	0	46	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
11/499	OG O	.03469	0.01393	0	9	320:	1
		Images		P	R	mAP50	
libpng warning:			_				
		•	Instances	Р	R	mAP50	
	all	347	369	0.887	0.797	0.885	
0.506							
To a sh	(IDII		.1.4 7	-1- 1	T	g:	
Epoch 12/499	-	_	obj_loss 0.01299	cis_ioss		Size 320:	
12/499 libpng warning:					40	320:	
12/499		.03269	ect skGB pro 0.01332	0	48	320:	
12/499 libpng warning:				-	40	320:	
12/499		.03259	ect skub pro 0.01356	0 prite	49	320:	
libpng warning:				-	43	320.	
12/499		.03327	0.01352	0	36	320:	
libpng warning:					30	020.	
12/499		.03375	0.01371	0	43	320:	
libpng warning:					10	020.	
12/499		.03375	0.01382	0	57	320:	
libpng warning:			ect sRGB pro	ofile			
12/499		0.0337	0.0138	0	43	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
12/499	OG O	.03394	0.01389	0	49	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
12/499	OG O	.03393	0.0139	0	51	320:	
libpng warning:			-	ofile			
12/499	OG O	.03421	0.0139	0	9	320:	1
		•	Instances	P	R	mAP50	
	all	347	369	0.87	0.767	0.866	
0.485							
	ant.	_			- .	a .	
-		x_loss	•	cls_loss		Size	
13/499		.03109	0.01175	0	40	320:	
libpng warning:			-		4 =	200.	
13/499		.03087	0.0125	O Ofilo	45	320:	
<pre>libpng warning: libpng warning:</pre>			_				
13/499		.03115	0.01431	0	46	320:	
libpng warning:					40	320.	
TINAME MOTHING.	TOOI . MIIOWII	THOOTI	cco prop bro	0.1.1.0			

13/499		.03182 0.01414	0	45	320:
		incorrect sRGB profile			
13/499		.03223 0.01439	0	49	320:
11bpng warning: 13/499		incorrect sRGB profile		40	200.
-•		.03243 0.01421 incorrect sRGB profile	0	40	320:
13/499		.03262 0.01422	,	55	320:
		incorrect sRGB profile		00	020.
13/499		.03317 0.01391	0	48	320:
libpng warning:	iCCP: known	incorrect sRGB profile)		
13/499	OG O	.03324 0.01388	0	41	320:
libpng warning:	iCCP: known	incorrect sRGB profile	;		
13/499		.03366 0.01405	0	37	320:
		incorrect sRGB profile			
		incorrect sRGB profile			
13/499		.03363 0.01404	0	41	320:
		incorrect sRGB profile			
13/499		.03358 0.0141	0	47	320:
		incorrect sRGB profile	:		
13/499		.03372 0.01415	0	12	320: 1
		Images Instances	Р	R	mAP50
	all	347 369	0.87	0.816	0.88
0.511					
Enoch	GPU mem box	x loss obiloss cls	loss	Instances	Size
-		x_loss obj_loss cls .03312		Instances	Size 320:
14/499	OG O	.03312 0.01208	0	Instances 33	Size 320:
14/499 libpng warning:	OG O	.03312 0.01208 incorrect sRGB profile	0	33	320:
14/499 libpng warning: 14/499	OG 0 iCCP: known OG 0	.03312 0.01208 incorrect sRGB profile .03304 0.01367	0		
14/499 libpng warning: 14/499	0G 0 iCCP: known 0G 0 iCCP: known	.03312 0.01208 incorrect sRGB profile	0	33	320:
14/499 libpng warning: 14/499 libpng warning: 14/499	OG 0 iCCP: known OG 0 iCCP: known OG 0	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384	0 0	33 38	320: 320:
14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning:	OG 0 iCCP: known OG 0 iCCP: known OG 0 iCCP: known	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile	0 0	33 38	320: 320:
14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning:	OG 0 iCCP: known OG 0 iCCP: known OG 0 iCCP: known iCCP: known	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile	0 0	33 38	320: 320:
14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning: libpng warning: 14/499	OG 0 iCCP: known OG 0 iCCP: known OG 0 iCCP: known iCCP: known	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 38 53	320: 320: 320:
14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning: libpng warning: 14/499	OG 0 iCCP: known OG 0 iCCP: known OG 0 iCCP: known iCCP: known oG 0	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 38 53	320: 320: 320:
14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning: 14/499	OG 0 iCCP: known OG 0 iCCP: known OG 0 iCCP: known iCCP: known OG 0 iCCP: known	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile		33 38 53 46	320: 320: 320:
14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning: 14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O iCCP: known OG O	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411		33 38 53 46	320: 320: 320:
14/499 libpng warning: 14/499	OG 0 iCCP: known OG 0 iCCP: known OG 0 iCCP: known iCCP: known OG 0 iCCP: known OG 0	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile		33 38 53 46 42	320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O iCCP: known OG O iCCP: known OG O	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407		33 38 53 46 42	320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile		33 38 53 46 42	320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known OG O	incorrect sRGB profile .03304		33 38 53 46 42 43	320: 320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known OG O	.03312 0.01208 incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile incorrect sRGB profile .03278 0.01364		33 38 53 46 42 43	320: 320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O	incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile incorrect sRGB profile .03278 0.01364 incorrect sRGB profile		33 38 53 46 42 43	320: 320: 320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O	incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile incorrect sRGB profile .03278 0.01364 incorrect sRGB profile .03282 0.01379		33 38 53 46 42 43	320: 320: 320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known OG O	incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile incorrect sRGB profile .03278 0.01364 incorrect sRGB profile .03282 0.01379 incorrect sRGB profile		33 38 53 46 42 43 49 50	320: 320: 320: 320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O iCCP: known	incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile incorrect sRGB profile .03278 0.01364 incorrect sRGB profile .03278 0.01379 incorrect sRGB profile .03277 0.01381		33 38 53 46 42 43 49 50	320: 320: 320: 320: 320: 320: 320:
14/499 libpng warning: 14/499	OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O	incorrect sRGB profile .03304 0.01367 incorrect sRGB profile .03381 0.01384 incorrect sRGB profile incorrect sRGB profile .03392 0.01394 incorrect sRGB profile .03407 0.01411 incorrect sRGB profile .03389 0.01407 incorrect sRGB profile incorrect sRGB profile .03278 0.01364 incorrect sRGB profile .03282 0.01379 incorrect sRGB profile .03277 0.01381 incorrect sRGB profile		33 38 53 46 42 43 49 50 48	320: 320: 320: 320: 320: 320: 320: 320:

	Class	Images	Instances	P	R	mAP50
0.450	all	347	369	0.857	0.802	0.876
0.458						
Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
15/499	OG	0.03418	0.01389	0	41	320:
libpng warning:			-			
15/499	OG	0.03286	0.0135	0	36	320:
libpng warning: 15/499	OG	0.03284	0.01341	0111e 0	40	320:
libpng warning:						
15/499	OG	0.03279	0.01337	0	46	320:
libpng warning:			_			
15/499	OG	0.03274	0.01344	0 ofile	48	320:
libpng warning: 15/499	OG	0.03315	ect skGB pr 0.01339	01116	42	320:
libpng warning:					42	020.
15/499	OG	0.03263	0.01321	0	38	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
15/499	OG	0.03254	0.01317	0	47	320:
libpng warning:			_			000
15/499	OG	0.03228	0.01326	0	45	320:
libpng warning: 15/499	OG	own incorr 0.0325	ест sкGB pr 0.01343	oile 0	12	320: 1
10/ 100	Class		Instances	P	R	mAP50
	all	347	369	0.875	0.829	0.896
0.488						
	ant				- .	a.
•	GPU_mem OG	0.03094	obj_loss 0.01486			Size
16/499 libpng warning:				Ofile	42	320:
16/499	0G	0.0308	0.01404	0	46	320:
libpng warning:						
16/499	OG	0.03108	0.01306	0	35	320:
libpng warning:			-	ofile		
16/499	OG	0.03146	0.01303	0	42	320:
libpng warning: 16/499	iCCP: kn	own incorr 0.03146	ect sRGB pr 0.01306		16	320:
libpng warning:				0 ofile	46	320:
16/499	0G	0.03113	0.01316	0	33	320:
libpng warning:	iCCP: kn	own incorr		ofile		
16/499	OG	0.03111	0.01313	0	43	320:
libpng warning:			-			
16/499	OG	0.03117	0.01317	0 of:lo	42	320:
libpng warning: 16/499	OG OG	own incorr 0.03133	ect skGB pr 0.01307	0111e 0	35	320:
libpng warning:					55	520.
16/499	OG	0.03136	0.01314	0	44	320:

libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
16/499	OG C	.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 bo	x_loss	obj_loss	cls_loss	Instances	Size	
17/499		.03181	0.01343	0	48	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG C	.03162	0.01332	0	41	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG C	.03122	0.01349	0	43	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG C	.03104	0.01334	0	46	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG	0.0312	0.01339	0	41	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG C	.03127	0.01342	0	43	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG	0.0314	0.0135	0	49	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG	0.0315	0.01352	0	35	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
17/499	OG C	.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 bo	x_loss	obj_loss	cls_loss	Instances	Size	
18/499	OG C	.03141	0.01497	0	48	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile			
libpng warning:			-	ofile			
18/499	OG C	.03231	0.01446	0	39	320:	
libpng warning:			_	ofile			
18/499		0.03121	0.01431	0	41	320:	
libpng warning:			-				
18/499		.03053	0.01405	0	40	320:	
libpng warning:			-				
18/499		0.03111	0.0136	0	43	320:	
libpng warning:			-				
18/499		.03149	0.01356	0	40	320:	
libpng warning:			_				
18/499		.03135	0.01341	0	39	320:	
libpng warning:			-		4.0	200	
18/499		0.03149	0.01346	0	49	320:	
libpng warning:	1CCP: known	ıncorr	ect skGB pr	oille			

18/499	OG	0.03151	0.01359	0	13	320:	1
	Class all	Images 347	Instances 369	P 0.913	R 0.835	mAP50 0.91	
0.52	all	341	309	0.913	0.033	0.91	
-	-	box_loss	u –	cls_loss	Instances	Size	
19/499	OG	0.03192		0	46	320:	
libpng warning: 19/499	iCCP: kn OG	own incorr 0.03096	ect sRGB pro 0.01282	ofile O	42	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
19/499	OG	0.03094	0.01279	0	36	320:	
libpng warning:			-				
19/499	OG	0.03096	0.01267	0	34	320:	
libpng warning:			-		4.5	200	
19/499 libpng warning:	OG	0.03091	0.01272	0 (file	45	320:	
110ping warming. 19/499	OG	0.03085	0.01271	0	42	320:	
libpng warning:					42	320.	
19/499	0G	0.03083	0.01272	0	42	320:	
libpng warning:					12	020.	
libpng warning:			-				
19/499	OG	0.03091	0.01278	0	44	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
19/499	OG	0.03078	0.01278	0	40	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
19/499	OG	0.03077	0.01278	0	47	320:	
libpng warning:			-	ofile			
19/499	OG	0.03094	0.0128	0	33	320:	
libpng warning:			_		_		
19/499	OG	0.03085	0.01272	0	8	320:	1
	Class	Images		P	R	mAP50	
0.452	all	347	369	0.854	0.791	0.857	
0.453							
Epoch	GPU_mem	hox loss	obj_loss	cls_loss	Instances	Size	
20/499	OG OG	0.03227	•	0	58	320:	
libpng warning:							
20/499	OG	0.03329	0.01373	0	41	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
20/499	OG	0.03164	0.01296	0	44	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
20/499	OG	0.03161	0.01299	0	49	320:	
libpng warning:			-				
libpng warning:			-				
20/499	OG	0.0312	0.01317	0	47	320:	
libpng warning:			-				
20/499	OG	0.03116	0.01313	0	61	320:	

libpng warning:	iCCP: knc	wn incorr	ect sRGB pr	ofile			
20/499	OG	0.03119	0.01325	0	48	320:	
libpng warning:				ofile			
20/499	OG	0.03105	0.01319	0	32	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile			
20/499	OG	0.03097	0.01318	0	52	320:	
libpng warning:	iCCP: knd	wn incorr	ect sRGB pr	ofile			
20/499	OG	0.03102	0.01311	0	39	320:	
libpng warning:			_	ofile			
20/499	OG	0.03092	0.01323	0	12	320:	1
	Class	Images		Р	R	mAP50	
	all	347	369	0.943	0.802	0.887	
0.494							
F l- /	ODII	1 1	-1-4 1	-1- 1	T	q:	
-	GPU_mem OG	0.03103	obj_loss 0.01349	_		Size	
21/499				O ofilo	38	320:	
libpng warning: 21/499	OG	0.03032	0.01321	0	41	320:	
libpng warning:					41	320.	
libpng warning:			-				
21/499	OG	0.03016	0.0131	0	39	320:	
libpng warning:					30	020.	
21/499	OG	0.03003	0.01298	0	38	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile			
21/499	OG	0.02983	0.01296	0	44	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile			
21/499	OG	0.02999	0.01292	0	45	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile			
21/499	OG	0.03034	0.0132	0	42	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile			
21/499	OG	0.03037	0.01313	0	38	320:	
libpng warning:			-				
libpng warning:			-				
libpng warning:			-				
21/499	OG	0.03044	0.01299	0	54	320:	
libpng warning:			-		4 7	200	4
21/499	OG Class	0.03087		0 P	17 R	320: mAP50	1
libpng warning:	Class	•	Instances		r.	MAPSO	
Troping warming.	Class	Images	_	orrie P	R	mAP50	
	all	347	369	0.893	0.864	0.899	
0.499	all	041	309	0.033	0.004	0.033	
0.400							
Epoch (GPU_mem	box loss	obj_loss	cls loss	Instances	Size	
22/499	OG	0.03216	0.015	0	57	320:	
libpng warning:					- •		
22/499	OG	0.03264	0.01374	0	40	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile			
_			-				

22/499	OG	0.03133	0.01305	0	44	320:
libpng warning: 22/499	iCCP: kno OG	wn incorre	ect sRGB profi 0.01314	ile O	47	320:
libpng warning: 22/499	iCCP: kno	wn incorre	ect sRGB profi 0.01307	ile O	41	320:
libpng warning: 22/499				ile O	39	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB profi	ile		
22/499 libpng warning:			_		36	320:
libpng warning: 22/499	iCCP: kno OG	wn incorre 0.03048	ect sRGB profi 0.01305	ile O	39	320:
libpng warning: 22/499	iCCP: kno	wn incorre	ect sRGB profi 0.01299	ile O	48	320:
libpng warning: 22/499	iCCP: kno	wn incorre	ect sRGB profi 0.01295	ile O	36	320:
libpng warning: 22/499					42	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB profi	ile		
22/499 libpng warning:	OG iCCP: kno	0.031 wn incorre	0.013 ect sRGB profi	0 ile	44	320:
22/499 libpng warning:	OG iCCP: kno	0.03083	0.01296	0	37	320:
22/499	OG	0.03074	0.01285	0	5	320: 1
22/ 100	Class		Instances	P	R	mAP50
		•		1	10	mai oo
	ااد	347	369	0 94	0.856	0 908
0.547	all	347	369	0.94	0.856	0.908
			369 obj_loss			0.908 Size
Epoch	GPU_mem	box_loss		cls_loss]	Instances	Size
Epoch	GPU_mem	box_loss	obj_loss o t/s]libpng war	cls_loss]	Instances	Size orrect sRGB
Epoch 0% profile 23/499	GPU_mem 0/64 [00 0G	box_loss :00 , ?i-</td <td>obj_loss o t/s]libpng war 0.01377</td> <td>cls_loss rning: iCCF 0</td> <td>Instances</td> <td>Size</td>	obj_loss o t/s]libpng war 0.01377	cls_loss rning: iCCF 0	Instances	Size
Epoch 0% profile	GPU_mem 0/64 [00 0G	box_loss :00 , ?i<br 0.03008 wn incorre	obj_loss o t/s]libpng war 0.01377 ect sRGB profi	cls_loss rning: iCCF 0	Instances P: known inc	Size orrect sRGB 320:
Epoch 0% profile 23/499 libpng warning: 23/499	GPU_mem 0/64 [00 0G iCCP: kno 0G	box_loss :00 , ?i-<br 0.03008 wn incorre 0.02893	obj_loss o t/s]libpng war 0.01377 ect sRGB profi 0.01338	cls_loss cring: iCCF 0 ile 0	Instances P: known inc	Size orrect sRGB
Epoch 0% profile 23/499 libpng warning: 23/499 libpng warning:	GPU_mem 0/64 [00 0G iCCP: kno 0G iCCP: kno	box_loss :00 , ?i<br 0.03008 wn incorre 0.02893 wn incorre	obj_loss o t/s]libpng war 0.01377 ect sRGB profi 0.01338 ect sRGB profi	cls_loss cning: iCCF	Instances P: known inc 48 43	Size orrect sRGB 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499 libpng warning: 23/499	GPU_mem 0/64 [00 OG iCCP: kno OG iCCP: kno	box_loss :00 , ?i-<br 0.03008 wn incorre 0.02893 wn incorre 0.02929	obj_loss of t/s]libpng war 0.01377 ect sRGB profi 0.01338 ect sRGB profi 0.01322	cls_loss cning: iCCF	Instances P: known inc	Size orrect sRGB 320:
Epoch 0% profile 23/499 libpng warning: 23/499 libpng warning: 23/499 libpng warning:	GPU_mem 0/64 [00	box_loss :00 , ?i-<br 0.03008 wn incorre 0.02893 wn incorre 0.02929 wn incorre	obj_loss of t/s]libpng war 0.01377 ect sRGB profice 0.01338 ect sRGB profice 0.01322 ect sRGB profice ct sRGB	cls_loss CCF O O O O O O O O O	Instances P: known inc 48 43 47	Size orrect sRGB 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499 libpng warning: 23/499 libpng warning: 23/499 libpng warning:	GPU_mem 0/64 [00	box_loss :00 , ?i<br 0.03008 wn incorre 0.02893 wn incorre 0.02929 wn incorre 0.02948 wn incorre	obj_loss of t/s]libpng war 0.01377 ect sRGB profi 0.01338 ect sRGB profi 0.01322 ect sRGB profi 0.01294 ect sRGB profi	cls_loss CCF O ile O ile O ile O ile O ile	Enstances P: known inc 48 43 47 41	Size orrect sRGB 320: 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499 libpng warning: 23/499 libpng warning: 23/499 libpng warning: 23/499	GPU_mem 0/64 [00	box_loss :00 , ?i-<br 0.03008 wn incorre 0.02893 wn incorre 0.02929 wn incorre 0.02948 wn incorre 0.02962	obj_loss of t/s]libpng war 0.01377 ect sRGB profice 0.01338 ect sRGB profice 0.01322 ect sRGB profice 0.01294 ect sRGB profice 0.01297	cls_loss Cring: iCCF	Instances P: known inc 48 43 47	Size orrect sRGB 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499	GPU_mem 0/64 [00 OG iCCP: kno OG iCCP: kno OG iCCP: kno OG iCCP: kno OG	box_loss :00 , ?i<br 0.03008 wn incorre 0.02893 wn incorre 0.02929 wn incorre 0.02948 wn incorre 0.02962 wn incorre 0.03007	obj_loss of t/s]libpng war 0.01377 ect sRGB profis 0.01338 ect sRGB profis 0.01322 ect sRGB profis 0.01294 ect sRGB profis 0.01297 ect sRGB profis 0.01297	cls_loss Cring: iCCF	Enstances P: known inc 48 43 47 41	Size orrect sRGB 320: 320: 320:
Epoch 0% profile 23/499 libpng warning:	GPU_mem 0/64 [00 OG iCCP: kno OG iCCP: kno OG iCCP: kno OG iCCP: kno OG	box_loss :00 , ?i<br 0.03008 wn incorre 0.02893 wn incorre 0.02929 wn incorre 0.02948 wn incorre 0.02962 wn incorre 0.03007	obj_loss of t/s]libpng war 0.01377 ect sRGB profis 0.01338 ect sRGB profis 0.01322 ect sRGB profis 0.01294 ect sRGB profis 0.01297 ect sRGB profis 0.01297	cls_loss Cring: iCCF	Enstances P: known inc 48 43 47 41 40	Size orrect sRGB 320: 320: 320: 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499	GPU_mem 0/64 [00	box_loss :00 , ?i<sup - 0.03008 wn incorr 0.02893 wn incorr 0.02929 wn incorr 0.02948 wn incorr 0.02962 wn incorr 0.03007 wn incorr 0.0302	obj_loss of t/s]libpng war 0.01377 ect sRGB profice 0.01338 ect sRGB profice 0.01322 ect sRGB profice 0.01294 ect sRGB profice 0.01297 ect sRGB profice 0.01297 ect sRGB profice 0.01297 ect sRGB profice 0.01285	cls_loss Crning: iCCF	Instances P: known inc. 48 43 47 41 40 36	Size orrect sRGB 320: 320: 320: 320: 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499	GPU_mem 0/64 [00	box_loss :00 , ?i<sup - 0.03008 wn incorr 0.02893 wn incorr 0.02929 wn incorr 0.02948 wn incorr 0.02962 wn incorr 0.03007 wn incorr 0.0302	obj_loss of t/s]libpng war 0.01377 ect sRGB profice 0.01338 ect sRGB profice 0.01322 ect sRGB profice 0.01294 ect sRGB profice 0.01297 ect sRGB profice 0.01297 ect sRGB profice 0.01297 ect sRGB profice 0.01285	cls_loss Crning: iCCF	Instances P: known inc. 48 43 47 41 40 36	Size orrect sRGB 320: 320: 320: 320: 320: 320:
Epoch 0% profile 23/499 libpng warning: 23/499 libpng warning:	GPU_mem 0/64 [00	box_loss :00 , ?i 0.03008 wn incorr 0.02893 wn incorr 0.02929 wn incorr 0.02948 wn incorr 0.02962 wn incorr 0.03007 wn incorr 0.0302 wn incorr 0.03006</td <td>obj_loss of t/s]libpng war 0.01377 ect sRGB profice 0.01338 ect sRGB profice 0.01322 ect sRGB profice 0.01294 ect sRGB profice 0.01297 ect sRGB profice 0.01297 ect sRGB profice 0.01285 ect sRGB profice 0.01273</td> <td>cls_loss Cring: iCCF</td> <td>Instances P: known inc. 48 43 47 41 40 36 51</td> <td>Size orrect sRGB 320: 320: 320: 320: 320: 320: 320:</td>	obj_loss of t/s]libpng war 0.01377 ect sRGB profice 0.01338 ect sRGB profice 0.01322 ect sRGB profice 0.01294 ect sRGB profice 0.01297 ect sRGB profice 0.01297 ect sRGB profice 0.01285 ect sRGB profice 0.01273	cls_loss Cring: iCCF	Instances P: known inc. 48 43 47 41 40 36 51	Size orrect sRGB 320: 320: 320: 320: 320: 320: 320:

libpng warning: iCCP: known incorrect sRGB profile		
23/499	31	320:
libpng warning: iCCP: known incorrect sRGB profile		
23/499	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	48	320:
libpng warning: iCCP: known incorrect sRGB profile		
24/499 0G 0.03027 0.01313 0	36	320:
libpng warning: iCCP: known incorrect sRGB profile		
24/499	51	320:
libpng warning: iCCP: known incorrect sRGB profile		
24/499 0G 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	10	000
24/499	48	320:
libpng warning: iCCP: known incorrect sRGB profile 24/499 0G 0.02997 0.01269 0	4.6	200.
24/499 OG 0.02997 0.01269 0 libpng warning: iCCP: known incorrect sRGB profile	46	320:
24/499 0G 0.02993 0.01266 0	42	320:
libpng warning: iCCP: known incorrect sRGB profile	42	320.
24/499 0G 0.03006 0.01272 0	53	320:
libpng warning: iCCP: known incorrect sRGB profile	00	020.
24/499 0G 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	F.0	200
25/499	50	320:
libpng warning: iCCP: known incorrect sRGB profile 25/499 0G 0.03076 0.0132 0	41	200.
25/499 OG 0.03076 0.0132 0 libpng warning: iCCP: known incorrect sRGB profile	41	320:
25/499 0G 0.03033 0.01336 0	44	320:
libpng warning: iCCP: known incorrect sRGB profile	77	020.
libpng warning: iCCP: known incorrect sRGB profile		
25/499 0G 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:			_			
libpng warning:			-		Ε.4	200
25/499 libpng warning:	OG	0.03073	0.0138	0 filo	54	320:
25/499	OG	0.03041	ect sags pro 0.01364	0	39	320:
libpng warning:					03	020.
25/499	OG	0.03041	0.01362	0	43	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file		
25/499	OG	0.03042	0.01345	0	50	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file		
25/499	OG	0.03031	0.01345	0	47	320:
libpng warning:			_	file		
25/499	OG	0.0301	0.01342	0	46	320:
libpng warning:			-		0.0	000
25/499	OG	0.03001	0.01336	0	39	320:
libpng warning:			-		40	200
25/499	OG	0.03011	0.0133	0	42	320:
libpng warning: 25/499	OG	own incorr 0.03001	ect skGB pro 0.01327		0	320: 1
25/499	Class		Instances	0 P	9 R	mAP50
	all	1mages 347	369	0.857	0.816	0.877
0.451	ull	011	003	0.001	0.010	0.011
0.101						
Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
Epoch 26/499	GPU_mem OG	box_loss 0.02368	obj_loss 0.01067	cls_loss 0	Instances 44	Size 320:
-	OG	0.02368	0.01067	0		
26/499	OG	0.02368	0.01067	0		
26/499 libpng warning: 26/499 libpng warning:	OG iCCP: kno OG iCCP: kno	0.02368 own incorr 0.02696 own incorr	0.01067 ect sRGB pro 0.01261	file 0	44	320:
26/499 libpng warning: 26/499 libpng warning: 26/499	OG iCCP: kno OG iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191	file 0 file 0	44	320:
26/499 libpng warning: 26/499 libpng warning: 26/499 libpng warning:	OG iCCP: kno OG iCCP: kno OG iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro	file 0 file 0 file 0	44 50	320: 320:
26/499 libpng warning: 26/499 libpng warning: 26/499 libpng warning: libpng warning:	OG iCCP: kno OG iCCP: kno iCCP: kno iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro	file 0 file 0 file file file	44 50 42	320: 320: 320:
26/499 libpng warning: 26/499 libpng warning: 26/499 libpng warning: libpng warning: 26/499	OG iCCP: kno OG iCCP: kno iCCP: kno iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204	file 0 file 0 file file 0	44 50	320: 320:
26/499 libpng warning: 26/499 libpng warning: 26/499 libpng warning: libpng warning: 26/499 libpng warning:	OG iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro	file 0 file 0 file file 0 file file 0	44 50 42 44	320: 320: 320:
26/499 libpng warning: 26/499 libpng warning: 26/499 libpng warning: 1ibpng warning: 26/499 libpng warning: 26/499	OG iCCP: kno OG iCCP: kno iCCP: kno iCCP: kno OG iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203	file 0 file 0 file file 0 file 0	44 50 42	320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro	file 0 file 0 file file 0 file 0 file 0	44 50 42 44 40	320: 320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02906	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01203	file 0 file 0 file file 0 file 0 file 0	44 50 42 44	320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG iCCP: kno iCCP: kno OG iCCP: kno OG iCCP: kno OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02905 own incorr	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro	file file ofile file ofile file ofile ofile ofile ofile	44 50 42 44 40 47	320: 320: 320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro 0.01208	file file ofile file ofile file ofile ofile ofile ofile ofile ofile	44 50 42 44 40	320: 320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro 0.01208	file file ofile file ofile file ofile ofile ofile ofile ofile ofile	44 50 42 44 40 47	320: 320: 320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893 own incorr 0.02913	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro 0.01231 ect sRGB pro 0.01231	file	44 50 42 44 40 47 41	320: 320: 320: 320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893 own incorr 0.02913	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro 0.01231 ect sRGB pro 0.01231	file	44 50 42 44 40 47 41	320: 320: 320: 320: 320: 320:
26/499 libpng warning:	OG iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893 own incorr 0.02913 own incorr 0.029 own incorr	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro 0.01231 ect sRGB pro 0.01234 ect sRGB pro 0.01237 ect sRGB pro 0.01227	file file 0 file file 0 file file 0 file 0 file 0 file 0 file 0 file 0	44 50 42 44 40 47 41 40	320: 320: 320: 320: 320: 320: 320: 320:
26/499 libpng warning: 26/499	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893 own incorr 0.02913 own incorr 0.029 own incorr 0.029	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01203 ect sRGB pro 0.01231 ect sRGB pro 0.01234 ect sRGB pro 0.01237 ect sRGB pro 0.01227 ect sRGB pro 0.01228	file file 0 file file 0 file file 0 file 0 file 0 file 0 file 0 file 0	44 50 42 44 40 47 41 40 33	320: 320: 320: 320: 320: 320: 320: 320:
26/499 libpng warning:	OG iCCP: kno	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893 own incorr 0.02913 own incorr 0.029 own incorr 0.0287 Images	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01208 ect sRGB pro 0.01231 ect sRGB pro 0.01234 ect sRGB pro 0.01237 ect sRGB pro 0.01227 ect sRGB pro 0.01228 Instances	file file 0 file file 0 file file 0 file	44 50 42 44 40 47 41 40 33 11 R	320: 320: 320: 320: 320: 320: 320: 320:
26/499 libpng warning:	OG iCCP: kno OG	0.02368 own incorr 0.02696 own incorr 0.02873 own incorr own incorr 0.02906 own incorr 0.02906 own incorr 0.02875 own incorr 0.02893 own incorr 0.02913 own incorr 0.029 own incorr 0.029	0.01067 ect sRGB pro 0.01261 ect sRGB pro 0.01191 ect sRGB pro 0.01204 ect sRGB pro 0.01203 ect sRGB pro 0.01203 ect sRGB pro 0.01231 ect sRGB pro 0.01234 ect sRGB pro 0.01237 ect sRGB pro 0.01227 ect sRGB pro 0.01228	file file	44 50 42 44 40 47 41 40 33	320: 320: 320: 320: 320: 320: 320: 320:

Epoch	GPU_mem	box_loss	obj_loss	cls_los	s Instances	Size
27/499	OG	0.02798	0.01283		0 44	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
27/499	OG	0.02892	0.01333		0 49	320:
libpng warning			-			
27/499	OG	0.02909	0.01337		0 51	320:
libpng warning			_			222
27/499	0G	0.02902	0.01329		0 53	320:
libpng warning			_			222
27/499	0G	0.02934	0.01315		0 49	320:
libpng warning			-		0 42	200
27/499	0G	0.0295	0.01315		0 43	320:
libpng warning 27/499	OG		ect skGB pr 0.01319		0 38	200.
•		0.0296			0 38	320:
libpng warning 27/499	OG	0.02954	0.01317		0 40	320:
libpng warning					0 40	320.
libpng warning			_			
27/499	. 100F. KII	0.02946	0.01326		0 53	320:
libpng warning					0 55	320.
27/499	0G	0.02943	0.0133		0 47	320:
libpng warning					- 11	020.
27/499	OG	0.02938	0.01321		0 48	320:
libpng warning	: iCCP: kn				-	
27/499	OG	0.0294	0.01327		0 49	320:
libpng warning	: iCCP: kn	own incorr	ect sRGB pr			
27/499	OG	0.02963	0.01319		0 42	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
27/499	OG	0.02963	0.01315		0 41	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
27/499	OG	0.02963	0.01323		0 13	320: 1
	Class	Images	Instances		P R	mAP50
	all	347	369	0.9	4 0.845	0.913
0.516						
Epoch	GPU_mem	box_loss	obj_loss	cls_los	s Instances	Size
28/499	OG	0.02908	0.01364		0 43	320:
libpng warning			_	ofile		
28/499	OG	0.02956	0.01318		0 36	320:
libpng warning			_			
libpng warning			-			
28/499	OG	0.02917	0.01296		0 49	320:
libpng warning			-			222
28/499	OG	0.02808	0.01277		0 53	320:
libpng warning			_			
libpng warning			-		0 50	200
28/499	OG	0.02846	0.0128		0 52	320:

libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02831	0.01271	0	49	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02855	0.01287	0	44	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02858	0.0128	0	51	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02899	0.01279	0	47	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02899	0.01278	0	40	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02911	0.01284	0	57	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02905	0.01284	0	47	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02885	0.01266	0	44	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
28/499	OG	0.02887	0.01265	0	40	320:
libpng warning:	iCCP: kno	wn incorre	ect sRGB pro	file		
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
Epoch 29/499	GPU_mem OG	box_loss 0.02736	obj_loss 0.01334	cls_loss 0	Instances 47	Size 320:
-	OG	0.02736	0.01334	0		
29/499	OG	0.02736	0.01334	0		
29/499 libpng warning:	OG iCCP: kno OG iCCP: kno	0.02736 wn incorre 0.02761 wn incorre	0.01334 ect sRGB pro 0.01354	file 0	47	320:
29/499 libpng warning: 29/499 libpng warning: 29/499	OG iCCP: kno OG iCCP: kno	0.02736 wn incorre 0.02761 wn incorre 0.03034	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329	file 0 file 0	47	320:
29/499 libpng warning: 29/499 libpng warning:	OG iCCP: kno OG iCCP: kno	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329	file 0 file 0	47 54	320: 320:
29/499 libpng warning: 29/499 libpng warning: 29/499 libpng warning: 29/499	OG iCCP: kno OG iCCP: kno OG iCCP: kno	0.02736 own incorre 0.02761 own incorre 0.03034 own incorre 0.0301	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282	file 0 file 0 file 0	47 54	320: 320:
29/499 libpng warning: 29/499 libpng warning: 29/499 libpng warning: 29/499 libpng warning:	OG iCCP: kno OG iCCP: kno OG iCCP: kno	0.02736 own incorre 0.02761 own incorre 0.03034 own incorre 0.0301	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282	file 0 file 0 file 0	47 54 43	320: 320: 320:
29/499 libpng warning: 29/499 libpng warning: 29/499 libpng warning: 29/499	OG iCCP: kno OG iCCP: kno OG iCCP: kno	0.02736 own incorre 0.02761 own incorre 0.03034 own incorre 0.0301	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282	file 0 file 0 file 0	47 54 43	320: 320: 320:
29/499 libpng warning:	OG iCCP: kno	0.02736 own incorred 0.03034 own incorred 0.0301 own incorred 0.032937 own incorred 0.02937	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro	file 0 file 0 file 0 file 0	47 54 43 36 48	320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 own incorre 0.03034 own incorre 0.0301 own incorre 0.02937 own incorre 0.02923	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253	file 0 file 0 file 0 file 0 file 0	47 54 43 36	320: 320: 320: 320:
29/499 libpng warning:	OG iCCP: kno	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.0301 wn incorre 0.02937 wn incorre 0.02923	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro	file 0 file 0 file 0 file 0 file 0	47 54 43 36 48 51	320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 own incorre 0.03034 own incorre 0.0301 own incorre 0.02937 own incorre 0.02923 own incorre 0.02923	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259	file 0	47 54 43 36 48	320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 own incorre 0.02761 own incorre 0.03034 own incorre 0.03937 own incorre 0.02937 own incorre 0.02923 own incorre 0.02917 own incorre	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro	file 0	47 54 43 36 48 51	320: 320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 own incorre 0.03034 own incorre 0.0301 own incorre 0.02937 own incorre 0.02923 own incorre 0.02923	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259	file 0	47 54 43 36 48 51	320: 320: 320: 320: 320:
29/499 libpng warning:	OG iCCP: kno OG	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.0301 wn incorre 0.02937 wn incorre 0.02923 wn incorre 0.02917 wn incorre 0.02911 wn incorre	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro	file file ofile	47 54 43 36 48 51 35	320: 320: 320: 320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.0301 wn incorre 0.02937 wn incorre 0.02923 wn incorre 0.02917 wn incorre 0.02911 wn incorre 0.02903	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro 0.01256	file ofile	47 54 43 36 48 51 35	320: 320: 320: 320: 320: 320:
29/499 libpng warning:	OG iCCP: kno OG	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.0301 wn incorre 0.02937 wn incorre 0.02923 wn incorre 0.02917 wn incorre 0.02911 wn incorre 0.02903 wn incorre	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro 0.01256 ect sRGB pro 0.01252 ect sRGB pro	file ofile	47 54 43 36 48 51 35 43	320: 320: 320: 320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.0301 wn incorre 0.02937 wn incorre 0.02923 wn incorre 0.02917 wn incorre 0.02911 wn incorre 0.02903 wn incorre 0.02903	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro 0.01252 ect sRGB pro 0.01252 ect sRGB pro 0.01252	file file ofile	47 54 43 36 48 51 35 43	320: 320: 320: 320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 own incorre 0.02761 own incorre 0.03034 own incorre 0.03937 own incorre 0.02923 own incorre 0.02917 own incorre 0.02911 own incorre 0.02903 own incorre 0.02903	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro 0.01252 ect sRGB pro 0.01252 ect sRGB pro 0.0124 ect sRGB pro	file file ofile	47 54 43 36 48 51 35 43 41 37	320: 320: 320: 320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.03937 wn incorre 0.02923 wn incorre 0.02917 wn incorre 0.02911 wn incorre 0.02903 wn incorre 0.02903 wn incorre 0.02909 wn incorre 0.02897	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro 0.01252 ect sRGB pro 0.01252 ect sRGB pro 0.0124 ect sRGB pro 0.01239	file file ofile ofile	47 54 43 36 48 51 35 43	320: 320: 320: 320: 320: 320: 320: 320:
29/499 libpng warning: 29/499	OG iCCP: kno OG	0.02736 wn incorre 0.02761 wn incorre 0.03034 wn incorre 0.03937 wn incorre 0.02923 wn incorre 0.02917 wn incorre 0.02911 wn incorre 0.02903 wn incorre 0.02903 wn incorre 0.02909 wn incorre 0.02897	0.01334 ect sRGB pro 0.01354 ect sRGB pro 0.01329 ect sRGB pro 0.01282 ect sRGB pro 0.0124 ect sRGB pro 0.01253 ect sRGB pro 0.01259 ect sRGB pro 0.01256 ect sRGB pro 0.01252 ect sRGB pro 0.01252 ect sRGB pro 0.0124 ect sRGB pro 0.01239	file file ofile ofile	47 54 43 36 48 51 35 43 41 37	320: 320: 320: 320: 320: 320: 320: 320:

libpng warning:	iCCP: kno	own incorr	ect sRGB pro	ofile			
29/499	OG	0.02898	0.01248	0	50	320:	
libpng warning:	iCCP: kno	own incorr	ect sRGB pro	ofile			
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							
					_		
-			obj_loss		Instances	Size	
30/499	OG	0.02915	0.0141	0	55	320:	
libpng warning:			-			200	
30/499	OG	0.02914	0.01365	0	41	320:	
libpng warning:			-		40	800	
30/499	0G	0.02907	0.01355	0	48	320:	
libpng warning:			-		4.0	200	
30/499	OG	0.029	0.0134	0	46	320:	
libpng warning:			-		4.0	200	
30/499	0G	0.02892	0.01312	0	40	320:	
libpng warning:			-		2.6	200	
30/499	0G	0.02889	0.0131	0	36	320:	
libpng warning:			-		4.0	200	
30/499	0G	0.02868	0.01305	0	46	320:	
libpng warning:			-		4.0	200	
30/499	0G	0.0286	0.01305	0	46	320:	
libpng warning:			-		40	200	
30/499	0G	0.02884	0.01308	0	49	320:	
libpng warning:			-		20	200	
30/499	OG	0.02889	0.01311	0	38	320:	
libpng warning:			-		Ε.4	200.	
30/499	OG	0.02892	0.01308	0	54	320:	
libpng warning:	OG	0.02886	0.01317	0 0 0	14	320:	1
30/499				P	14 R	320: mAP50	1
	Class	O	Instances				
0 522	all	347	369	0.939	0.848	0.938	
0.533							
Epoch	GPU_mem	box_loss	obj_loss	cla loga	Instances	Size	
31/499	GFO_mem OG	0.02814	0.01227	0	This tances	320:	
libpng warning:					77	520.	
31/499	OG	0.02818	0.0122	0	46	320:	
libpng warning:					40	520.	
31/499	OG	0.0283	0.01225	0	48	320:	
libpng warning:					40	320:	
31/499	OG	0.02845	0.01213	0	40	320:	
libpng warning:					40	520.	
31/499	OG	0.02852	0.01218	0	47	320:	
libpng warning:					71	520.	
31/499	OG	0.02818	0.01223	0	52	320:	
01/ 1 33	O.G	0.02010	0.01220	U	52	320.	

141	: aab . 1	.	DOD	227.		
libpng warning: 31/499	OG	wn incorr 0.02821	ect skGB proi 0.01216	0	35	320:
libpng warning:					30	320.
31/499	OG	0.0283	0.01218	0	46	320:
libpng warning:					40	320.
31/499	OG	0.02833	0.01218	0	45	320:
libpng warning:					40	320.
31/499	OG	wn 1110011 0.02871	0.01234	0	57	320:
libpng warning:					31	320.
31/499	OG	wn 1110011 0.02861	0.01227	0	42	320:
libpng warning:					42	320.
31/499	OG	wn 1110011 0.02867	0.01224	0	39	320:
libpng warning:					39	320.
31/499	OG	wn 1110011 0.02868	0.01223	0	40	320:
					40	320.
libpng warning: 31/499	OG	wn 1110011 0.02858	0.01236	0	49	320:
libpng warning:					49	320.
31/499	OG	wn 1110011 0.02852	0.01239	0	38	320:
•					30	320.
libpng warning: 31/499	OG	wn incorr 0.02853	0.01231		10	320: 1
31/499	Class			0 P	R.	mAP50
	all	347	Instances 369	_	0.82	0.899
0.51	all	341	309	0.846	0.62	0.699
0.51						
Epoch (GPU mem 1	hox loss	obi loss	cls loss Ti	nstances	Size
•	-	_	obj_loss	-		Size
0%	-	_	obj_loss t/s]libpng wa	-		
0% profile	0/64 [00	:00 , ?i</td <td>t/s]libpng wa</td> <td>arning: iCCP</td> <td>: known inc</td> <td>orrect sRGB</td>	t/s]libpng wa	arning: iCCP	: known inc	orrect sRGB
0% profile 32/499	0G 0/64	0.02666	t/s]libpng wa	arning: iCCP		
0% profile 32/499 libpng warning:	0G iCCP: kno	0.02666 wn incorr	t/s]libpng wa 0.01128 ect sRGB prof	arning: iCCP 0 file	: known inc	320:
0% profile 32/499 libpng warning: 32/499	0G iCCP: know	0.02666 wn incorr	0.01128 ect sRGB prof	orning: iCCP 0 file 0	: known inc	orrect sRGB
0% profile 32/499 libpng warning: 32/499 libpng warning:	OG iCCP: know	0.02666 wn incorr 0.02646 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof	orning: iCCP 0 file 0 file	: known inc 50 39	320:
0% profile 32/499 libpng warning: 32/499 libpng warning: 32/499	OG iCCP: know OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129	ofile 0	: known inc	320:
0% profile 32/499 libpng warning: 32/499 libpng warning: 32/499 libpng warning:	OG iCCP: know OG iCCP: know OG iCCP: know	:00 , ?i 0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr</td <td>0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof</td> <td>orning: iCCP 0 file 0 file 0 file</td> <td>50 39 37</td> <td>320: 320: 320:</td>	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof	orning: iCCP 0 file 0 file 0 file	50 39 37	320: 320: 320:
0% profile 32/499 libpng warning: 32/499 libpng warning: 32/499 libpng warning: 32/499	OG iCCP: know OG iCCP: know OG iCCP: know OG oG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124	orning: iCCP 0 file 0 file 0 file 0	: known inc 50 39	320: 320:
0% profile 32/499 libpng warning: 32/499 libpng warning: 32/499 libpng warning: 32/499 libpng warning:	OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof	orning: iCCP Ofile Ofile Ofile Ofile Ofile	50 39 37 38	320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499 libpng warning: 32/499 libpng warning: 32/499 libpng warning: 32/499	OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.01124	orning: iCCP Ofile Ofile Ofile Ofile Ofile Ofile Ofile Ofile	50 39 37	320: 320: 320:
0% profile 32/499 libpng warning:	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.01124 ect sRGB prof	orning: iCCP Ofile Ofile Ofile Ofile Ofile Ofile Ofile Ofile	50 39 37 38 38	320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.01124 ect sRGB prof 0.0112	orning: iCCP Ofile	50 39 37 38	320: 320: 320: 320: 320:
0% profile 32/499 libpng warning:	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01143	orning: iCCP Ofile	50 39 37 38 38 45	320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01143 ect sRGB prof 0.01152	orning: iCCP Ofile	50 39 37 38 38	320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning:	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01152 ect sRGB prof 0.01152	orning: iCCP Ofile	sknown inc. 50 39 37 38 38 45 47	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr 0.02832	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01152 ect sRGB prof 0.01152 ect sRGB prof 0.01162	orning: iCCP Ofile	50 39 37 38 38 45	320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning:	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr 0.02832 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01143 ect sRGB prof 0.01152 ect sRGB prof 0.01162 ect sRGB prof	orning: iCCP Ofile	sknown inc. 50 39 37 38 38 45 47 41	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr 0.02832 wn incorr 0.02843	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.01143 ect sRGB prof 0.01152 ect sRGB prof 0.01162 ect sRGB prof 0.01162	orning: iCCP Ofile	sknown inc. 50 39 37 38 38 45 47	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr 0.02832 wn incorr 0.02843 wn incorr	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01143 ect sRGB prof 0.01152 ect sRGB prof 0.01162 ect sRGB prof 0.01162 ect sRGB prof	orning: iCCP Ofile	sknown inc. 50 39 37 38 38 45 47 41 37	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr 0.02832 wn incorr 0.02843 wn incorr 0.02846	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01152 ect sRGB prof 0.01162 ect sRGB prof 0.01162 ect sRGB prof 0.01162 ect sRGB prof 0.01158	orning: iCCP Ofile Ofile	sknown inc. 50 39 37 38 38 45 47 41	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 32/499 libpng warning: 32/499	OG iCCP: know OG	0.02666 wn incorr 0.02646 wn incorr 0.02638 wn incorr 0.0277 wn incorr 0.02762 wn incorr 0.02755 wn incorr 0.02842 wn incorr 0.02832 wn incorr 0.02843 wn incorr 0.02846	0.01128 ect sRGB prof 0.0113 ect sRGB prof 0.01129 ect sRGB prof 0.01124 ect sRGB prof 0.0112 ect sRGB prof 0.0112 ect sRGB prof 0.01152 ect sRGB prof 0.01162 ect sRGB prof 0.01162 ect sRGB prof 0.01162 ect sRGB prof 0.01158	orning: iCCP Ofile Ofile	sknown inc. 50 39 37 38 38 45 47 41 37	320: 320: 320: 320: 320: 320: 320: 320:

	Class	Images	Instances	Р	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:		own incorr	ect sRGB pr	ofile		
33/499	OG	0.02865	0.01308	0	46	320:
libpng warning:			_			
33/499	0G	0.02872	0.01292	0	46	320:
libpng warning:			-		4.5	200.
33/499 libpng warning:	OG iCCD: km	0.02851	0.01262	O ofilo	45	320:
33/499	OG	0.02854	0.01251	0	46	320:
libpng warning:					10	020.
33/499	OG	0.02871	0.01264	0	53	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
33/499	OG	0.02863	0.01269	0	50	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
33/499	OG	0.02873	0.01266	0	37	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
33/499	OG	0.02886	0.01261	0	47	320:
libpng warning:			-			
33/499	OG	0.02866	0.01247	0	39	320:
libpng warning:			-		20	200
33/499	0G	0.02863	0.01252	0	39	320:
libpng warning: 33/499	OG	own incorr 0.02854	ест sкGB pr 0.01259	0111e 0	15	320: 1
33/499	Class	Images	Instances	P	R.	mAP50
	all	347	369	0.945	0.836	0.911
0.574	411	011		0.010	0.000	0.011
Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
34/499	OG	0.02768	0.012	0	42	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
34/499	OG	0.02798	0.01321	0	39	320:
libpng warning:			_	ofile		
34/499	OG	0.02842	0.01309	0	40	320:
libpng warning:			-			
34/499	0G	0.02869	0.01311	0	42	320:
libpng warning:			_		2.4	200
34/499	OG	0.02847	0.01307	0 ofilo	34	320:
libpng warning: 34/499	OG	0.02843	ect skGB pr 0.01301	0111e 0	54	320:
libpng warning:					04	020.
libpng warning:			_			
34/499	OG	0.02836	0.01302	0	50	320:
libpng warning:	iCCP: kn		ect sRGB pr	ofile		

34/499	OG	0.02833	0.01277	0	49	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
34/499	OG	0.02837	0.01251	0	47	320:
libpng warning:			-	file		
34/499	OG	0.02841	0.01245	0	11	320: 1
	Class	Images	Instances	Р	R	mAP50
	all	347	369	0.94	0.835	0.904
0.552						
-	_	box_loss	u –			Size
35/499	OG	0.02943	0.01219	0	41	320:
libpng warning:			-			
35/499	OG	0.02613	0.01176	0	42	320:
libpng warning:			-	file		
35/499	OG	0.02666	0.01196	0	46	320:
libpng warning:			-			
35/499	OG	0.02717	0.01169	0	40	320:
libpng warning:			-	file		
35/499	OG	0.0274	0.0119	0	40	320:
libpng warning:	iCCP: kno		-	file		
35/499	OG	0.02776	0.01213	0	47	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
35/499	OG	0.02771	0.01218	0	49	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
35/499	OG	0.02839	0.01204	0	42	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
35/499	OG	0.02814	0.01202	0	43	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
35/499	OG	0.02806	0.01199	0	38	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB prof	file		
35/499	OG	0.02814	0.012	0	45	320:
libpng warning:			ect sRGB prof	file		
35/499	OG	0.02803	0.01202	0	12	320: 1
	Class	_	Instances	P	R	mAP50
	all	347	369	0.95	0.817	0.898
0.529						
-			obj_loss			Size
	0/64 [00	:00 , ?i</td <td>t/s]libpng wa</td> <td>arning: iC</td> <td>CP: known i</td> <td>ncorrect sRGB</td>	t/s]libpng wa	arning: iC	CP: known i	ncorrect sRGB
profile						
36/499	OG	0.02958	0.01404	0	48	320:
libpng warning:			_			
36/499	OG	0.02725	0.01208	0	48	320:
libpng warning:			_			
36/499	OG	0.0278	0.01193	0	47	320:

libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	file			
36/499	OG	0.02765	0.01152	0	42	320:	
libpng warning:				-		0_01	
36/499	OG	0.02737	0.01181	0	57	320:	
libpng warning:					01	020.	
36/499	OG	0.0279	0.01176	0	42	320:	
					42	320.	
libpng warning: 36/499			-		4.5	200.	
- · ·	0G	0.02784	0.01177	0	45	320:	
libpng warning:			-		4.4	200	
36/499	OG	0.02783	0.01191	0	41	320:	
libpng warning:			-				
36/499	OG	0.02782	0.01193	0	38	320:	
libpng warning:			-				
36/499	OG	0.02782	0.01192	0	45	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile			
36/499	OG	0.02779	0.01194	0	14	320:	1
	Class	Images	Instances	Р	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: kno	wn incorr	ect sRGB pro	file			
37/499	OG	0.02795	0.01173	0	44	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	file			
37/499	OG	0.02718	0.0121	0	40	320:	
libpng warning:				-		0_01	
37/499	OG	0.02726	0.01204	0	33	320:	
libpng warning:					00	020.	
37/499	OG	0.0275	0.01205	0	46	320:	
libpng warning:				-	40	320.	
37/499	OG	wn 1110011 0.02697	0.01169	0	36	220.	
0., 200				_	30	320:	
libpng warning:			_		40	200	
37/499	OG	0.02725	0.01182	0	49	320:	
libpng warning:			_				
libpng warning:			-				
37/499	OG	0.02718	0.01174	0	33	320:	
libpng warning:			-				
37/499	OG	0.02712	0.01172	0	11	320:	1
	Class	Images	Instances	Р	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: kno	wn incorr	ect sRGB pro	file			
38/499	OG	0.02799	0.01226	0	43	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	file			
•			_				

38/499		.02791		0	41	320:	
	iCCP: known	incorr	ect sRGB profile	Э			
38/499	OG	0.0276	0.01235	0	42	320:	
libpng warning:			ect sRGB profile	Э			
38/499		.02754	0.01224	0	51	320:	
			rect sRGB profile				
38/499		.02765	0.01218	0	37	320:	
			rect sRGB profile				
			rect sRGB profile				
			rect sRGB profile				
38/499		.02774	0.01227	0	47	320:	
			ect sRGB profile	Э			
38/499		.02776	0.01233	0	52	320:	
			ect sRGB profile	Э			
38/499		.02784	0.01215	0	48	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	Э			
38/499	OG O	.02791	0.01213	0	44	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	Э			
38/499	OG O	.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 bo	x_loss	obj_loss cla	s_loss	Instances	Size	
39/499	OG O	.02652	0.0118	0	42	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	Э			
39/499	OG O	.02686	0.01168	0	42	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	Э			
39/499	OG O	.02706	0.01112	0	36	320:	
libpng warning:	iCCP: known	incorr	rect sRGB profile	е			
39/499	OG O	.02707	0.0111	0	44	320:	
libpng warning:	iCCP: known	incorr	rect sRGB profile	е			
39/499	OG	0.0268	0.01146	0	45	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	Э			
39/499	OG O	.02701	0.01149	0	35	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	Э			
39/499	OG O	.02685	0.01175	0	41	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	е			
39/499	OG O	.02716	0.01176	0	38	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	е			
39/499	OG O	.02725	0.01178	0	41	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	е			
39/499	OG O	.02722	0.01181	0	43	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	е			
39/499	OG O	.02731	0.01189	0	44	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	е			
39/499	OG O	.02753	0.012	0	56	320:	
libpng warning:	iCCP: known	incorr	ect sRGB profile	е			
_			_				

39/499	OG	0.02747	0.01198	0	46	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
39/499	OG	0.02749	0.01191	0	12	320: 1
	Class	Images	Instances	Р	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	45	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
40/499	OG	0.02752	0.01226	0	38	320:
libpng warning:	iCCP: know			ofile		
40/499	OG	0.02751	0.01237	0	47	320:
libpng warning:						0_0.
40/499	OG	0.02759	0.01258	0	44	320:
libpng warning:					11	020.
40/499	OG	0.0275	0.01264	0	51	320:
libpng warning:					01	020.
40/499	OG	0.02728	0.01236		56	320:
				0	56	320:
libpng warning:			-		Ε0	200
40/499	OG	0.02663	0.01226	0	58	320:
libpng warning:			-		4.77	200
40/499	OG	0.02667	0.01227	0	47	320:
libpng warning:			-			
40/499	OG	0.02671	0.01227	0	44	320:
libpng warning:			-			
40/499	OG	0.02669	0.01223	0	45	320:
libpng warning:			-	ofile		
40/499	OG	0.02684	0.01238	0	13	320: 1
	Class	Images	Instances	Р	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: know	wn incorr	ect sRGB pro	ofile		
41/499	OG	0.02753	0.01221	0	40	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
41/499	OG	0.02815	0.01282	0	45	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
41/499	OG	0.02799	0.01267	0	40	320:
libpng warning:	iCCP: know	wn incorr		ofile		
41/499	OG	0.02785	0.01261	0	46	320:
libpng warning:						
libpng warning:			-			
41/499	OG	0.02806	0.01195	0	40	320:
libpng warning:					10	020.
libpng warning:			_			
Marining.	1001 . MIIO		coo prop bro			

41/499			0.01193	0	46	320:	
libpng warning: 41/499		incorr 0.02771	rect sRGB pro 0.01206	ofile 0	33	320:	
libpng warning: 41/499		incorr 0.02764	ect sRGB pro	ofile 0	40	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
41/499 libpng warning:		0.02767 i incorr	0.01204 mect sRGB pro	0 ofile	44	320:	
41/499	OG C	.02767	0.01189	0	40	320:	
libpng warning: 41/499		0.02758	0.01188	0	39	320:	
libpng warning: 41/499		incorr 0.02753	ect sRGB pro	ofile 0	7	320:	1
11, 100	Class	Images	Instances	Р	R	mAP50	-
0.493	all	347	369	0.914	0.821	0.897	
		_			_		
-	GPU_mem bo		•			Size	
42/499 libpng warning:		0.02514	0.01106	O Ofilo	34	320:	
42/499		0.02559	0.01133	0	41	320:	
libpng warning: 42/499		incorr 0.02554	ect sRGB pro	ofile 0	38	320:	
libpng warning:					30	520.	
42/499	OG C	.02572	0.0117	0	54	320:	
libpng warning: 42/499		incorr 0.02569	ect sRGB pro 0.01194	ofile 0	57	320:	
libpng warning:			-		4.0	200	
42/499 libpng warning:		0.02578	0.01191	O Ofilo	43	320:	
42/499		0.02568	0.01153	0	57	320:	
libpng warning:			-				
42/499		.02575	0.01149	0	41	320:	
libpng warning: libpng warning:			-				
42/499		0.02674	0.01186	0	43	320:	
libpng warning:							
42/499		.02665	0.01197	0	51	320:	
libpng warning:			-	ofile			
42/499		.02661	0.01201	0	51	320:	
libpng warning: 42/499		incorr).02656	rect sRGB pro 0.01201	ofile 0	53	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
42/499		.02676	0.01199	0	15	320:	1
	Class	Images		Р	R	mAP50	
0 504	all	347	369	0.911	0.855	0.908	
0.524							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%1	0/64 [00	:00 , ?i</td <td>t/s]libpng</td> <td>warning: iC</td> <td>CP: known</td> <td>incorrect sRGB</td>	t/s]libpng	warning: iC	CP: known	incorrect sRGB
profile						
43/499	OG	0.02572	0.0125	0	42	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02908	0.01266	0	33	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02919	0.01247	0	41	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02846	0.01256	0	48	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02758	0.01224	0	39	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02674	0.01211	0	44	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02665	0.01201	0	48	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02674	0.01205	0	48	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02692	0.0121	0	49	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.0269	0.0121	0	40	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02689	0.01203	0	47	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	ofile		
43/499	OG	0.0268	0.01202	0	41	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02686	0.01212	0	52	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02686	0.0121	0	48	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02682	0.01225	0	54	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.0268	0.0122	0	41	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
43/499	OG	0.02661	0.01208	0	31	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pr	cofile		
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: kno	wn incorr	ect sRGB pr	cofile		
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 4	9 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02624 0.01165 0 4	6 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02654 0.01159 0 4	0 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.0265 0.01157 0 4	3 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02652 0.01163 0 4	6 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02648 0.01162 0 4	6 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02645 0.01157 0 4	3 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02638 0.01153 0 3	9 320:
libpng warning:	iCCP: known incorrect sRGB profile	
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02641 0.01149 0 4	0 320:
libpng warning:	iCCP: known incorrect sRGB profile	
44/499	OG 0.02634 0.0115 0 1	1 320: 1
	Class Images Instances P	R mAP50
	all 347 369 0.901 0.87	5 0.917
0.543		
-	GPU_mem box_loss obj_loss cls_loss Instance	
45/499	0G 0.02505 0.01207 0 4	s Size 4 320:
45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile	4 320:
45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4	4 320:
45/499 libpng warning: 45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile	4 320: 4 320:
45/499 libpng warning: 45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4	4 320: 4 320:
45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile	320:320:320:
45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5	320:320:320:
45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320:
45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5	320:320:320:
45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320: 6 320:
45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5	4 320: 4 320: 3 320: 0 320:
45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320: 6 320:
45/499 libpng warning: 15/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile CCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320: 6 320: 0 320:
45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320: 6 320:
45/499 libpng warning: 1bpng warning: 45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320: 6 320: 0 320:
45/499 libpng warning: 1bpng warning: 45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile OG 0.02583 0.01175 0 3 iCCP: known incorrect sRGB profile OG 0.02593 0.01186 0 4	4 320: 4 320: 3 320: 0 320: 6 320: 0 320:
45/499 libpng warning: 1bpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning:	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile OG 0.02583 0.01175 0 3 iCCP: known incorrect sRGB profile OG 0.02593 0.01186 0 4 iCCP: known incorrect sRGB profile	4 320: 4 320: 3 320: 0 320: 6 320: 0 320: 9 320: 4 320:
45/499 libpng warning: 1bpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile OG 0.02593 0.01175 0 3 iCCP: known incorrect sRGB profile OG 0.02593 0.01186 0 4 iCCP: known incorrect sRGB profile OG 0.02588 0.01184 0 4	4 320: 4 320: 3 320: 0 320: 6 320: 0 320: 9 320: 4 320:
45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile OG 0.02583 0.01175 0 3 iCCP: known incorrect sRGB profile OG 0.02593 0.01186 0 4 iCCP: known incorrect sRGB profile NG 0.02588 0.01184 0 4 iCCP: known incorrect sRGB profile	4 320: 4 320: 4 320: 3 320: 0 320: 6 320: 9 320: 4 320: 2 320:
45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02583 0.01175 0 3 iCCP: known incorrect sRGB profile OG 0.02593 0.01186 0 4 iCCP: known incorrect sRGB profile OG 0.02588 0.01184 0 4 iCCP: known incorrect sRGB profile OG 0.02588 0.01184 0 4 iCCP: known incorrect sRGB profile OG 0.0257 0.01175 0 5	4 320: 4 320: 4 320: 3 320: 0 320: 6 320: 9 320: 4 320: 2 320:
45/499 libpng warning: 45/499	OG 0.02505 0.01207 0 4 iCCP: known incorrect sRGB profile OG 0.02558 0.01167 0 4 iCCP: known incorrect sRGB profile OG 0.02605 0.01156 0 4 iCCP: known incorrect sRGB profile OG 0.02593 0.01159 0 5 iCCP: known incorrect sRGB profile OG 0.02596 0.01186 0 5 iCCP: known incorrect sRGB profile OG 0.02594 0.01184 0 5 iCCP: known incorrect sRGB profile OG 0.02583 0.01175 0 3 iCCP: known incorrect sRGB profile OG 0.02593 0.01186 0 4 iCCP: known incorrect sRGB profile OG 0.02588 0.01184 0 4 iCCP: known incorrect sRGB profile OG 0.0257 0.01175 0 5 iCCP: known incorrect sRGB profile	4 320: 4 320: 4 320: 3 320: 0 320: 6 320: 9 320: 4 320: 2 320:

libpng warning: libpng warning:			-				
45/499			0.01164	0	43	320:	
libpng warning:			sRGB pro	file			
45/499	OG O	.02606	0.01158	0	11	320:	1
	Class	Images In	stances	P	R	mAP50	
	all	347	369	0.917	0.841	0.91	
0.538							
Enoch (ODII mom ho	logg o	hi loga	ala laga	Ingtonoog	Ciao	
Epoch (46/499		x_loss o	0.01208	0	Instances 53	Size 320:	
libpng warning:					00	020.	
libpng warning:			-				
46/499			0.01132	0	38	320:	
libpng warning:	iCCP: known	incorrect	sRGB pro	file			
libpng warning:	iCCP: known	incorrect	sRGB pro	file			
46/499	OG O	.02683	0.01161	0	46	320:	
libpng warning:	iCCP: known	incorrect	sRGB pro	file			
46/499		.02657	0.0116	0	49	320:	
libpng warning:			-				
46/499			0.01164	0	34	320:	
libpng warning:			-				
46/499	OG		0.01142	0	33	320:	
libpng warning:			-		40	200	
46/499			0.01153	0	40	320:	
libpng warning: 46/499			3.01159	0	47	320:	
libpng warning:					41	320.	
46/499			0.01165	0	39	320:	
libpng warning:					00	020.	
46/499			0.01169	0	42	320:	
libpng warning:							
46/499	OG		0.01168	0	42	320:	
libpng warning:	iCCP: known	incorrect	sRGB pro	file			
libpng warning:	iCCP: known	incorrect	sRGB pro	file			
46/499	OG O	.02675	0.01173	0	12	320:	1
	Class	Images In	stances	P	R	mAP50	
	all	347	369	0.893	0.863	0.917	
0.562							
-						a .	
-	_		bj_loss	cls_loss	Instances	Size	
47/499			0.01051	0	44	320:	
libpng warning:			-		47	200.	
47/499 libpng warning:			0.01096	0 file	47	320:	
47/499			3.01185	0	39	320:	
libpng warning:					33	020.	
47/499			0.01175	0	48	320:	
, 100				J	10	020.	

libong warning:	iCCD. known	incorrect sRGB profile		
47/499		.02641 0.01192 0	44	320:
·		incorrect sRGB profile	11	020.
47/499		.02643 0.01176 0	40	320:
		incorrect sRGB profile	10	020.
1 0 0		incorrect sRGB profile		
47/499		.02639 0.01197 0	47	320:
•		incorrect sRGB profile	11	020.
47/499		.02628 0.01204 0	52	320:
·		incorrect sRGB profile	02	020.
47/499		.02621 0.01198 0	43	320:
		incorrect sRGB profile		0201
47/499		.02599 0.01193 0	45	320:
·		incorrect sRGB profile		
47/499		.02604 0.0119 0	49	320:
•		incorrect sRGB profile		
47/499		.02594 0.0119 0	45	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499		.02574 0.01199 0	45	320:
	iCCP: known	incorrect sRGB profile		
47/499		.02578 0.01192 0	40	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499		.02575 0.01196 0	44	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499		.02587 0.01185 0	37	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499	OG O	.02582 0.01181 0	35	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499	OG O	.02582 0.01179 0	41	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499	OG O	.02586 0.01182 0	43	320:
libpng warning:	iCCP: known	incorrect sRGB profile		
libpng warning:	iCCP: known	incorrect sRGB profile		
47/499	OG O	.02588 0.01174 0	7	320: 1
	Class	Images Instances P	R	mAP50
	all	347 369 0.919	0.8	0.899
0.531				
-	-	x_loss obj_loss cls_loss	Instances	Size
48/499		.02462 0.01066 0	48	320:
		incorrect sRGB profile		
		incorrect sRGB profile		
48/499		.02365 0.01051 0	43	320:
		incorrect sRGB profile		
48/499		.02426 0.01138 0	36	320:
		incorrect sRGB profile		
48/499		.02486 0.0113 0	45	320:
libpng warning:	iCCP: known	incorrect sRGB profile		

48/499	OG C	.02486	0.01138	0	49	320:
libpng warning:			_	ofile		
48/499		.02484	0.01145	0	49	320:
libpng warning: 48/499		incorr .02487	ect sRGB pro 0.01153	ofile 0	45	320:
libpng warning:					40	320.
48/499		.02503	0.01148	0	37	320:
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile		
48/499		.02555	0.01139	0	47	320:
libpng warning:			_		20	200
48/499 libpng warning:		.02549	0.0113	0 ofile	39	320:
48/499		.02545	0.0113	0	48	320:
libpng warning:					10	020.
48/499		.02553	0.01137	0	46	320:
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile		
libpng warning:			-			
48/499		.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 bo	x_loss	obj_loss	cls_loss	Instances	Size
49/499	OG C	.02636	0.01134	0	50	320:
libpng warning:				ofile		
libpng warning: 49/499	iCCP: known			ofile 0	39	320:
	iCCP: known	incorr .02609	ect sRGB pro 0.01122	0		
49/499	iCCP: known OG C iCCP: known	incorr .02609	ect sRGB pro 0.01122	0		
49/499 libpng warning:	iCCP: known OG C iCCP: known OG C	incorr .02609 incorr .02631	rect sRGB pro 0.01122 rect sRGB pro 0.01117	0 ofile 0	39	320:
49/499 libpng warning: 49/499	iCCP: known OG C iCCP: known OG C iCCP: known	incorr .02609 incorr .02631	rect sRGB pro 0.01122 rect sRGB pro 0.01117	0 ofile 0	39	320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning:	iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known	incorr .02609 incorr .02631 incorr .02573	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro	ofile 0 ofile 0 ofile 0	39 45	320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: libpng warning:	iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known	incorr .02609 incorr .02631 incorr .02573 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro	ofile 0 ofile 0 ofile 0	39 45 49	320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known oG O	incorr .02609 incorr .02631 incorr .02573 incorr incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro rect sRGB pro 0.01135	ofile 0 ofile 0 ofile ofile ofile	39 45	320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: libpng warning: 49/499 libpng warning:	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known	incorr 0.02609 incorr 0.02631 incorr 0.02573 incorr incorr 0.02567	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro rect sRGB pro 0.01135 rect sRGB pro	offile offile offile offile offile offile	39 45 49	320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 1ibpng warning: 49/499 libpng warning:	iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known	incorr 0.02609 incorr 0.02631 incorr 0.02573 incorr 0.02567 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro ect sRGB pro 0.01135 rect sRGB pro rect sRGB pro 0.01135	ofile ofile ofile ofile ofile ofile ofile ofile ofile	39 45 49 38	320: 320: 320: 320:
49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O iCCP: known OG O	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr incorr .02582	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01135 rect sRGB pro 0.01131	offile	39 45 49	320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: libpng warning: 49/499 libpng warning: libpng warning: 49/499 libpng warning:	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known oG O iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known	incorr .02609 incorr .02631 incorr .02573 incorr incorr incorr incorr incorr .02567 incorr .02582 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro	offile	39 45 49 38	320: 320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 1ibpng warning: 49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known OG O	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01131	offile	39 45 49 38	320: 320: 320: 320:
49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro	offile	39 45 49 38 38	320: 320: 320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 1ibpng warning: 49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known OG O iCCP: known OG O	incorr .02609 incorr .02631 incorr .02573 incorr incorr .02567 incorr .02582 incorr .02598 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01154	offile	39 45 49 38	320: 320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 1ibpng warning: 49/499 libpng warning:	iCCP: known OG O iCCP: known OG O iCCP: known oG O iCCP: known OG O iCCP: known OG O iCCP: known	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02598	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01159 rect sRGB pro 0.01119	offile	39 45 49 38 38 58 37	320: 320: 320: 320: 320: 320:
49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known oG O iCCP: known OG O iCCP: known OG O iCCP: known OG O	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02598 incorr .02591 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01119 rect sRGB pro 0.01125	offile	39 45 49 38 38	320: 320: 320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 1ibpng warning: 49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known oG O iCCP: known	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02591 incorr .02605 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01155 rect sRGB pro 0.01155 rect sRGB pro 0.01155 rect sRGB pro 0.01155 rect sRGB pro 0.01125	offile	39 45 49 38 38 58 37 42	320: 320: 320: 320: 320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known oG O	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02591 incorr .02591 incorr .02605 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01159 rect sRGB pro 0.01125 rect sRGB pro 0.01125 rect sRGB pro 0.01131	offile	39 45 49 38 38 58 37	320: 320: 320: 320: 320: 320:
49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known OG O iCCP: known	incorr .02609 incorr .02531 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02598 incorr .02591 incorr .02605 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01159 rect sRGB pro 0.01125 rect sRGB pro 0.01125 rect sRGB pro 0.01131	offile	39 45 49 38 38 58 37 42 55	320: 320: 320: 320: 320: 320: 320: 320:
49/499 libpng warning: 49/499 libpng warning: 49/499 libpng warning: 1bpng warning: 49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known oG O	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02598 incorr .02591 incorr .02605 incorr .02606 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01155 rect sRGB pro 0.01119 rect sRGB pro 0.01125 rect sRGB pro 0.01131	offile offile	39 45 49 38 38 58 37 42	320: 320: 320: 320: 320: 320: 320:
49/499 libpng warning: 49/499	iCCP: known OG O iCCP: known OG O iCCP: known iCCP: known iCCP: known iCCP: known iCCP: known oG O iCCP: known	incorr .02609 incorr .02631 incorr .02573 incorr .02567 incorr .02582 incorr .02598 incorr .02598 incorr .02591 incorr .02605 incorr .02606 incorr	rect sRGB pro 0.01122 rect sRGB pro 0.01117 rect sRGB pro 0.01128 rect sRGB pro 0.01135 rect sRGB pro 0.01131 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01154 rect sRGB pro 0.01155 rect sRGB pro 0.01119 rect sRGB pro 0.01125 rect sRGB pro 0.01131	offile offile	39 45 49 38 38 58 37 42 55	320: 320: 320: 320: 320: 320: 320: 320:

libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
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: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02693	0.0118	0	42	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02659	0.0123	0	57	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02627	0.01225	0	43	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02609	0.01183	0	38	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02583	0.01153	0	40	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.0257	0.01158	0	47	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02625	0.01147	0	48	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02605	0.01148	0	53	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02637	0.01159	0	46	320:	
libpng warning:	: iCCP: kr	nown incorr	ect sRGB pr	ofile			
50/499	OG	0.02634	0.01152	0	41	320:	
libpng warning:	: iCCP: kr			ofile			
50/499	OG	0.02633	0.01141	0	38	320:	
libpng warning:				ofile			
50/499	OG	0.0267	0.01158	0	44	320:	
libpng warning:	: iCCP: kr		ect sRGB pr	ofile			
50/499	OG	0.02658	0.01158	0	43	320:	
libpng warning:						0_0.	
50/499	0G	0.02657	0.0116	0	43	320:	
libpng warning:						0_0.	
50/499	0G	0.02653	0.01163	0	9	320:	1
00, 100	Class	Images		P	R	mAP50	-
	all	347	369	0.937	0.867	0.912	
0.516	411	011	333	0.001	0.001	0.012	
0.010							
Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
51/499	OG OG	0.0272	0.01143	0	45	320:	
libpng warning:				_	-10	020.	
51/499	. 100F. KI 0G	0.02666	0.01124	0	43	320:	
libpng warning:					40	320.	
51/499	. ICCF. KI OG	0.02666	0.01124		49	320:	
01/433	UG	0.02000	0.01124	0	49	320:	

libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02626	0.0112	0	49	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02647	0.01122	0	51	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02675	0.01119	0	39	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02662	0.01136	0	48	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02663	0.01141	0	45	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02661	0.01137	0	34	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02659	0.0113	0	31	320:
libpng warning:	iCCP: knd	own incorre	ct sRGB pro	file		
51/499	OG	0.02658	0.01134	0	50	320:
libpng warning:	iCCP: knd		ct sRGB pro	file		
51/499	OG	0.02652	0.01129	0	35	320:
libpng warning:		own incorre	ct sRGB pro	file		
51/499	OG	0.0265	0.01128	0	10	320: 1
,	Class		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
Epoch 52/499	GPU_mem OG	box_loss 0.02506	obj_loss 0.01346	cls_loss 0	Instances 46	
52/499	OG	0.02506	0.01346	0		Size 320:
52/499 libpng warning:	OG iCCP: knd	0.02506 own incorre	0.01346 ect sRGB pro	0 file		
52/499	OG iCCP: knd	0.02506 own incorre	0.01346 ect sRGB pro	0 file file	46	320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: kno iCCP: kno OG	0.02506 own incorre own incorre 0.02619	0.01346 ect sRGB project sRGB proj 0.01185	0 file file 0		
52/499 libpng warning: libpng warning:	OG iCCP: kno iCCP: kno OG	0.02506 own incorre own incorre 0.02619	0.01346 ect sRGB project sRGB proj 0.01185	0 file file 0	46	320:
52/499 libpng warning: libpng warning: 52/499 libpng warning: 52/499	OG iCCP: knd OG iCCP: knd OG oG	0.02506 own incorre 0.02619 own incorre 0.02624	0.01346 ect sRGB product sRGB p	file file 0 file 0	46 41	320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning: 52/499 libpng warning:	OG iCCP: kno OG iCCP: kno OG iCCP: kno	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre	0.01346 ect sRGB product sRGB p	file file 0 file 0 file 0	46 41	320: 320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning: 52/499 libpng warning: 52/499	OG iCCP: knd OG iCCP: knd OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642	0.01346 ect sRGB product sRGB p	file file 0 file 0 file 0	46 41 54	320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning: 52/499 libpng warning: 52/499 libpng warning:	OG iCCP: knd OG iCCP: knd OG iCCP: knd OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre	0.01346 ect sRGB proceed of sRGB proceed sRGB proceed of sRGB proceed of sRGB proceed of sRGB proceed sRGB pr	file file 0 file 0 file 0	46 41 54 41	320: 320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning: 52/499 libpng warning: 52/499 libpng warning: 52/499	OG iCCP: knd OG iCCP: knd OG iCCP: knd OG iCCP: knd OG oG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637	0.01346 ect sRGB product sRGB p	file file 0 file 0 file 0 file 0	46 41 54	320: 320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning: 52/499 libpng warning: 52/499 libpng warning: 52/499 libpng warning:	OG iCCP: knd OG iCCP: knd OG iCCP: knd OG iCCP: knd OG oG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre	0.01346 ect sRGB product sRGB p	file file 0 file 0 file 0 file 0	46 41 54 41 35	320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638	0.01346 ect sRGB product sRGB p	file file file ofile ofile ofile ofile ofile ofile ofile	46 41 54 41	320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning:	OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre	0.01346 ect sRGB product sRGB p	file file 0 file 0 file 0 file 0 file 0 file 0 file	46 41 54 41 35 54	320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.02638	0.01346 ect sRGB product sRGB p	file file ofile	46 41 54 41 35	320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning:	OG iCCP: knd OG	0.02506 own incorre own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.02638 own incorre 0.0263	0.01346 ect sRGB proceed sRGB p	file file file file file file file file file file file file file file file	46 41 54 41 35 54 52	320: 320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.02638 own incorre 0.0263	0.01346 ect sRGB product sRGB p	file file file ofile	46 41 54 41 35 54	320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499 libpng warning:	OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.0263 own incorre 0.0263 own incorre 0.0263 own incorre 0.0263	0.01346 ect sRGB product sRGB p	file file file ofile	46 41 54 41 35 54 52 40	320: 320: 320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG	0.02506 own incorre own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.02638 own incorre 0.0263	0.01346 ect sRGB product sRGB p	file file ofile	46 41 54 41 35 54 52	320: 320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG	0.02506 own incorre own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.02638 own incorre 0.02635 own incorre 0.02615 own incorre 0.02616 own incorre	0.01346 ect sRGB product sRGB p	file file ofile	46 41 54 41 35 54 52 40 46	320: 320: 320: 320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG	0.02506 own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.0263 own incorre 0.0263 own incorre 0.02615 own incorre 0.02616 own incorre 0.02582	0.01346 ect sRGB product sRGB p	file file ofile	46 41 54 41 35 54 52 40	320: 320: 320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: knd OG iCCP: knd	0.02506 own incorre own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.0263 own incorre 0.02636 own incorre 0.02615 own incorre 0.02616 own incorre 0.02582 own incorre	0.01346 ect sRGB product sRGB p	file file file ofile	46 41 54 41 35 54 52 40 46 50	320: 320: 320: 320: 320: 320: 320: 320:
52/499 libpng warning: libpng warning: 52/499	OG iCCP: kno OG	0.02506 own incorre own incorre 0.02619 own incorre 0.02624 own incorre 0.02642 own incorre 0.02637 own incorre 0.02638 own incorre 0.02638 own incorre 0.02636 own incorre 0.02615 own incorre 0.02616 own incorre 0.02616 own incorre 0.02582 own incorre 0.02582	0.01346 ect sRGB product sRGB p	file file file	46 41 54 41 35 54 52 40 46	320: 320: 320: 320: 320: 320: 320: 320:

52/499	OG	0.02581	0.01156	0	41	320:
libpng warning:			ect sRGB pro	ofile		
52/499		0.02583	0.01156	0	38	320:
libpng warning:			-		0	200 4
52/499	OG Class	0.02565	0.01147	0 P	9 R	320: 1 mAP50
	all	Images 347	Instances 369	0.918	0.862	0.921
0.568	all	041	303	0.510	0.002	0.521
0.000						
Epoch	GPU_mem b	ox_loss	obj_loss	cls_loss	Instances	Size
53/499	OG	0.02592	0.0124	0	55	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
53/499		0.02671	0.01253	0	43	320:
libpng warning:			-			
53/499		0.02633	0.01231	0	56	320:
libpng warning:			_		4.7	200
53/499		0.02561	0.01158	0	47	320:
libpng warning: 53/499		n incorr 0.02532	0.01172	0 0	54	320:
libpng warning:					54	320.
53/499	OG	0.0255	0.01184	0	41	320:
libpng warning:					11	020.
53/499		0.02529	0.01163	0	48	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
53/499	OG	0.0255	0.0116	0	54	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
53/499	OG	0.02549	0.01173	0	46	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
53/499	OG	0.0253	0.01155	0	32	320:
libpng warning:			_			
53/499		0.02539	0.01157	0	51	320:
libpng warning:			-		4.2	200
53/499		0.02533	0.01155	0	43	320:
libpng warning: 53/499		n incorr 0.02537	0.01168	0	52	320:
libpng warning:					52	520.
53/499		0.02542	0.01158	0	44	320:
libpng warning:						0_0.
53/499		0.02545	0.01156	0	42	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
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						
T 1	ODII 1	7 -	ahd T	.l. l	T	Q ÷ —
Epoch 54/499		0.02736	obj_loss 0.0127	cls_loss 0	Instances 36	Size 320:
54/499 libpng warning:				-	30	320:
TIPPING MOTHING.	TOOL . KIIOW	T THOULL	cer piran big) T T T C		

54/499	OG	0.027	0.01217	0	44	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02595	0.01177	0	42	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02543	0.01193	0	45	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02542	0.01176	0	46	320:
libpng warning:			-	.le		
54/499		.02547	0.01185	0	47	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02541	0.01184	0	51	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02608	0.01183	0	36	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02615	0.01183	0	41	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499	OG O	.02585	0.01156	0	40	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	le.		
54/499	OG O	.02581	0.01157	0	42	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499		.02586	0.01156	0	52	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499		.02585	0.01154	0	40	320:
libpng warning:	iCCP: known	incorrec	t sRGB profi	.le		
54/499		.02587	0.01151	0	36	320:
libpng warning:						
54/499		.02586	0.0117	0	17	320: 1
·			nstances	Р	R	mAP50
	all	347	369	0.908	0.867	0.906
0.516						
Epoch	GPU_mem bo	x_loss	obj_loss c	:ls_loss	Instances	Size
55/499		0.0248	0.01108	- 0	40	320:
libpng warning:				le.		
libpng warning:			-			
55/499		.02468	0.01117	0	47	320:
libpng warning:						
55/499		.02565	0.01148	0	49	320:
libpng warning:						
55/499		.02552	0.0115	0	43	320:
libpng warning:					10	020.
55/499		.02542	0.01149	0	39	320:
libpng warning:					00	020.
55/499		.02535	0.01155	0	50	320:
libpng warning:					50	020.
55/499		.02531	0.01163	0	42	320:
22/499	()(+ ()					

libong warning:	iCCP: known	incorrect sRGB p	rofile			
55/499		.02538 0.01176		53	320:	
		incorrect sRGB p	rofile			
55/499		.02543 0.01175		47	320:	
libpng warning:	iCCP: known	incorrect sRGB p	rofile			
55/499	OG O.	.02547 0.01174	0	47	320:	
libpng warning:	iCCP: known	incorrect sRGB p	rofile			
55/499	OG O.	.02532 0.01158	0	16	320:	1
	Class 1	Images Instances		R	mAP50	
	all	347 369	0.933	0.828	0.909	
0.544						
_ ,	an.				~.	
-	_	x_loss obj_loss	-	Instances	Size	
56/499		.02532 0.01158		47	320:	
11bpng warning: 56/499		incorrect sRGB p .02555 0.01136		31	320:	
•		incorrect sRGB p		31	320:	
56/499		.02572 0.01104		42	320:	
		incorrect sRGB p		12	020.	
		incorrect sRGB p				
56/499		.02545 0.01082		47	320:	
·		incorrect sRGB p				
		incorrect sRGB p				
56/499		.02513 0.011		40	320:	
libpng warning:	iCCP: known	incorrect sRGB p	rofile			
56/499	OG O.	.02513 0.01097	0	41	320:	
libpng warning:	iCCP: known	incorrect sRGB p	rofile			
56/499		0.0251 0.01095		44	320:	
1 0 0		incorrect sRGB p				
56/499		.02507 0.01099		57	320:	
		incorrect sRGB p				
		incorrect sRGB p			000	
56/499		.02509 0.01102		51	320:	
		incorrect sRGB p		40	200	
56/499		.02521 0.01119		49	320:	
56/499		incorrect sRGB p .02521 0.0112		47	320:	
		incorrect sRGB p		41	320.	
56/499		.02519 0.01123		47	320:	
		incorrect sRGB p			020.	
56/499		.02526 0.01123		9	320:	1
,		Images Instances		R	mAP50	
	all	347 369		0.802	0.914	
0.533						
Epoch	GPU_mem box	x_loss obj_loss	cls_loss	Instances	Size	
57/499	OG O.	.02497 0.01137	0	57	320:	
libpng warning:	iCCP: known	incorrect sRGB p	rofile			

57/499	OG 0.02478 0.01146 0	45	320:
libpng warning: 57/499	iCCP: known incorrect sRGB profile 0G 0.02481 0.01146 0	46	320:
·	iCCP: known incorrect sRGB profile	10	020.
57/499	0G 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:
	iCCP: known incorrect sRGB profile		
57/499	0G 0.02504 0.01131 0	42	320:
	iCCP: known incorrect sRGB profile		
57/499	0G 0.02513 0.01128 0	40	320:
	iCCP: known incorrect sRGB profile	4.0	200 4
57/499	0G 0.02522 0.01131 0	12	320: 1
	Class Images Instances P	R	mAP50
0.535	all 347 369 0.901	0.818	0.899
0.555			
Epoch	GPU_mem box_loss obj_loss cls_loss	Instances	Size
58/499	0G 0.02659 0.01101 0	48	320:
·	iCCP: known incorrect sRGB profile		0_0.
58/499	0G 0.02603 0.01141 0	57	320:
	iCCP: known incorrect sRGB profile		
58/499	0G 0.02611 0.01101 0	37	320:
libpng warning:	iCCP: known incorrect sRGB profile		
58/499	0G 0.02542 0.01135 0	45	320:
libpng warning:	iCCP: known incorrect sRGB profile		
58/499	0G 0.02524 0.01159 0	47	320:
libpng warning:	iCCP: known incorrect sRGB profile		
58/499	OG 0.02546 0.01124 0	42	320:
1 0 0	iCCP: known incorrect sRGB profile		
58/499	OG 0.02549 0.01114 0	37	320:
	iCCP: known incorrect sRGB profile		
58/499	0G 0.02523 0.01103 0	34	320:
	iCCP: known incorrect sRGB profile	40	200
58/499	0G 0.02535 0.01105 0	42	320:
58/499	iCCP: known incorrect sRGB profile OG 0.02531 0.01105 0	34	320:
	OG 0.02531 0.01105 0 iCCP: known incorrect sRGB profile	34	320:
58/499	0G 0.0253 0.01114 0	57	320:
	iCCP: known incorrect sRGB profile	01	020.
58/499	0G 0.02531 0.01116 0	43	320:
	iCCP: known incorrect sRGB profile	10	020.
58/499	0G 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

	all	347	369	0.943	0.843	0.916
0.54						
Epoch 59/499	GPU_mem	box_loss 0.02647	obj_loss 0.0117	cls_loss	Instances 43	Size 320:
libpng warning: 59/499	OG	0.02419	0.01115	0	48	320:
libpng warning: libpng warning: 59/499			-		47	320:
libpng warning: 59/499	OG	0.0241	0.01121	0	44	320:
libpng warning: 59/499	OG	0.02441	0.01109	0	35	320:
libpng warning: 59/499 libpng warning:	OG	0.0243	0.01096	0	45	320:
59/499 libpng warning:	OG	0.02437	0.01099	0	43	320:
59/499 libpng warning:	OG	0.02458	0.01086	0	46	320:
59/499 libpng warning:	OG	0.02465	0.01085	0	38	320:
59/499 libpng warning:	OG : iCCP: kn	0.02479 own incorr	0.01107 ect sRGB pro	0 ofile	29	320:
59/499 libpng warning:	OG : iCCP: kn	0.0248 own incorr	0.01108 ect sRGB pro	0 ofile	36	320:
59/499 libpng warning:			-	0 ofile	57	320:
59/499 libpng warning:			-		37	320:
59/499 libpng warning:					41	320:
59/499	0G Class	0.02486 Images	0.01096 Instances	0 P	7 R	320: 1 mAP50
	all	347	369	0.855	0.829	0.864
0.495						
Epoch 60/499	GPU_mem	box_loss 0.02822	obj_loss 0.01261	cls_loss	Instances	Size 320:
libpng warning: 60/499	iCCP: kn			ofile 0	46	320:
libpng warning: 60/499	iCCP: kn OG	own incorr 0.02561	ect sRGB pro 0.01096	ofile 0	41	320:
libpng warning: 60/499	OG	0.02516	0.01137	0	45	320:
libpng warning: 60/499	iCCP: kn OG	own incorr 0.025	ect sRGB pro 0.01117	ofile 0	41	320:

		_				
libpng warning:			-			
60/499	OG	0.02501	0.01133	0	52	320:
libpng warning:			_	ofile		
60/499	OG	0.02562	0.0112	0	42	320:
libpng warning:			ect sRGB pr	ofile		
60/499	OG	0.02556	0.01125	0	40	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
60/499	OG	0.02554	0.01128	0	49	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
60/499	OG	0.02549	0.01118	0	7	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
. 0	Class	Images	_	Р	R	mAP50
	all	347	369	0.904	0.843	0.904
0.494						
0.101						
Epoch	GPII mem	hox loss	obj_loss	cls loss	Instances	Size
61/499	OG OG	0.02397	0.01315	0	61	320:
libpng warning:				-	01	020.
libpng warning:			_			
61/499	OG	0.02399	0.01122	0	38	320:
·					30	320.
libpng warning:	OG		-		16	200.
61/499		0.02521	0.01147	0	46	320:
libpng warning:			-		4.4	000
61/499	OG	0.02566	0.01125	0	44	320:
libpng warning:			-			
61/499	OG	0.02559	0.01133	0	47	320:
libpng warning:			ect sRGB pr	ofile		
61/499	OG	0.02536	0.01129	0	39	320:
libpng warning:	iCCP: kn		ect sRGB pr	ofile		
61/499	OG	0.02518	0.01119	0	36	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
61/499	OG	0.0252	0.01113	0	42	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
61/499	OG	0.02522	0.01109	0	43	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
61/499	OG	0.02527	0.01112	0	41	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pr	ofile		
61/499	OG	0.02534	0.01117	0	12	320: 1
	Class	Images	Instances	Р	R	mAP50
	all	347	369	0.921	0.889	0.927
0.551						
0.001						
Epoch	GPU_mem	box_loss	obi loss	cls_loss	Instances	Size
•	_	_	u –			incorrect sRGB
profile	1 0/04 [0	:1	o, plantabug		OI . IXIIOWII .	THOOTICO BIMD
62/499	OG	0.02644	0.01475	0	59	320:
					59	320.
libpng warning:	TOOF. KII	OMIT THEOLI	ecr grap br	OTITE		

62/499	OG	0.02554	0.01513	0	68	320:
libpng warning: 62/499	iCCP: kn OG	own incorr 0.0251	ect sRGB pro 0.01261	ofile O	38	320:
libpng warning: 62/499	iCCP: kn	own incorr 0.02512	ect sRGB pro 0.01228	ofile 0	49	320:
libpng warning: 62/499	iCCP: kn	lown incorr 0.02522	ect sRGB pro 0.01165	ofile 0	44	320:
libpng warning: 62/499	iCCP: kn				37	320:
libpng warning: 62/499					47	
libpng warning:	iCCP: kn	lown incorr	ect sRGB pro	ofile		320:
62/499 libpng warning:			-		38	320:
libpng warning: 62/499	iCCP: kn OG	own incorr 0.02501	ect sRGB pro 0.01145	ofile O	39	320:
libpng warning: 62/499	iCCP: kn	own incorr 0.02508	ect sRGB pro 0.01145	ofile 0	42	320:
libpng warning: 62/499	iCCP: kn	lown incorr 0.02525	ect sRGB pro 0.01145	ofile 0	8	320: 1
02/ 433	Class		Instances	P	R.	mAP50
	all	347	369	0.88	0.867	0.904
0.512	all	341	309	0.00	0.807	0.904
-			obj_loss			Size
-			•			Size ncorrect sRGB
-		0:00 , ?i</td <td>•</td> <td></td> <td>CP: known i</td> <td></td>	•		CP: known i	
0%			•			
0% profile	0/64 [0 0G	0.02522	t/s]libpng w	varning: iC 0	CP: known i	ncorrect sRGB
0% profile 63/499	0/64 [0 0G	0.02522	t/s]libpng w	varning: iC 0	CP: known i	ncorrect sRGB
0% profile 63/499 libpng warning:	0G iCCP: kn	0.02522 lown incorr 0.02523	0.01054 ect sRGB pro 0.01113	warning: iC Opfile O	CP: known i 40	ncorrect sRGB
0% profile 63/499 libpng warning: 63/499	0G iCCP: kn	0.02522 lown incorr 0.02523	0.01054 ect sRGB pro 0.01113	warning: iC Opfile O	CP: known i 40	ncorrect sRGB
0% profile 63/499 libpng warning: 63/499 libpng warning:	OG iCCP: kn OG iCCP: kn OG	0.02522 lown incorr 0.02523 lown incorr 0.02509	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109	varning: iC ofile ofile ofile 0	CP: known i 40 48	320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499	OG iCCP: kn OG iCCP: kn OG	0.02522 lown incorr 0.02523 lown incorr 0.02509	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109	varning: iC ofile ofile ofile 0	CP: known i 40 48	320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning:	0G iCCP: kn OG iCCP: kn OG iCCP: kn	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113	varning: iC ofile ofile ofile ofile ofile ofile	CP: known i 40 48 44	320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499	0G iCCP: kn OG iCCP: kn OG iCCP: kn	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113	varning: iC ofile ofile ofile ofile ofile ofile	CP: known i 40 48 44	320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning:	OG iCCP: kn OG iCCP: kn OG iCCP: kn OG iCCP: kn	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113	varning: iC ofile ofile ofile ofile ofile	CP: known i 40 48 44 44	320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning:	OG iCCP: kn OG iCCP: kn OG iCCP: kn OG iCCP: kn OG	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.0113	varning: iC ofile ofile ofile ofile ofile ofile ofile	CP: known i 40 48 44 44	320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning:	OG iCCP: kn OG CCP: kn	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances	varning: iC ofile ofile ofile ofile ofile ofile Ofile Ofile	CP: known i 40 48 44 44 8 R	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52	0G iCCP: kn OG iCCP: kn OG iCCP: kn OG iCCP: kn OG iCCP: kn	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances	varning: iC ofile ofile ofile ofile ofile 0 0 0 0 0 0 0 0 0 0 0 0 0	CP: known i 40 48 44 44 8 R 0.837	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52	0G iCCP: kn OG iCCP: kn OG iCCP: kn OG iCCP: kn OG iCCP: kn	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances 369	varning: iC ofile ofile ofile ofile ofile 0 0 0 0 0 0 0 0 0 0 0 0 0	CP: known i 40 48 44 44 8 R 0.837	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52 Epoch	OG OG iCCP: kn OG iCCP: kn OG iCCP: kn OG CCP: kn OG CCP: kn OG COG COG COG COG COG COG COG	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347 box_loss 0.02366	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances 369 obj_loss 0.011	varning: iC ofile ofile ofile ofile ofile cofile cofile cofile ofile ofile ofile ofile ofile ofile ofile ofile	CP: known i 40 48 44 44 8 R 0.837	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52 Epoch 64/499	OG OG iCCP: kn OG iCCP: kn OG iCCP: kn OG CCP: kn OG CCP: kn OG COG COG COG COG COG COG COG	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347 box_loss 0.02366	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances 369 obj_loss 0.011	varning: iC ofile ofile ofile ofile ofile cofile cofile cofile ofile ofile ofile ofile ofile ofile ofile ofile	CP: known i 40 48 44 44 8 R 0.837	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52 Epoch 64/499 libpng warning:	OG OG iCCP: kn OG iCCP: kn OG iCCP: kn OG CCP: kn OG iCCP: kn OG iCCP: kn OG class all	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347 box_loss 0.02366 lown incorr 0.02475	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances 369 obj_loss 0.011 ect sRGB pro 0.01129	varning: iC ofile ofile ofile ofile ofile ofile cls_loss ofile ofile	CP: known i 40 48 44 44 8 R 0.837 Instances 46	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52 Epoch 64/499 libpng warning: 64/499	OG OG iCCP: kn OG iCCP: kn OG iCCP: kn OG CCP: kn OG iCCP: kn OG iCCP: kn OG class all	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347 box_loss 0.02366 lown incorr 0.02475	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances 369 obj_loss 0.011 ect sRGB pro 0.01129	varning: iC ofile ofile ofile ofile ofile ofile cls_loss ofile ofile	CP: known i 40 48 44 44 8 R 0.837 Instances 46	320: 320: 320: 320: 320: 320: 320: 320:
0% profile 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 libpng warning: 63/499 0.52 Epoch 64/499 libpng warning: 64/499 libpng warning:	OG OG iCCP: kn OG class all GPU_mem OG iCCP: kn OG iCCP: kn OG	0.02522 lown incorr 0.02523 lown incorr 0.02509 lown incorr 0.02519 lown incorr 0.02497 Images 347 box_loss 0.02366 lown incorr 0.02475 lown incorr 0.02475	0.01054 ect sRGB pro 0.01113 ect sRGB pro 0.01109 ect sRGB pro 0.0113 ect sRGB pro 0.01119 Instances 369 obj_loss 0.011 ect sRGB pro 0.01129 ect sRGB pro 0.01129	varning: iC ofile ofile	CP: known i 40 48 44 44 8 R 0.837 Instances 46	320: 320: 320: 320: 320: 320: 320: 320:

libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.02547	0.01107	0	30	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.02537	0.01103	0	42	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.02548	0.01109	0	46	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.0255	0.01104	0	41	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.02565	0.01117	0	59	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.02546	0.01124	0	58	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
64/499	OG	0.02515	0.0112	0	8	320: 1	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: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02551	0.01133	0	42	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02459	0.01136	0	48	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02458	0.0115	0	40	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02479	0.01151	0	41	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.0248	0.01148	0	49	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.025	0.01134	0	46	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02495	0.01135	0	47	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02494	0.01135	0	45	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.0249	0.01126	0	39	320:	
libpng warning:	iCCP: 1	known incorr	ect sRGB pr	ofile			
65/499	OG	0.02507	0.01127	0	10	320: 1	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: 1	known incorr	ect sRGB pr	ofile			
66/499	OG	0.02534	0.01076	0	44	320:	

libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.02505	0.01126	0	58	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.0245	0.01157	0	46	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.02401	0.01131	0	39	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.02391	0.0113	0	43	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.02386	0.01127	0	38	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.02388	0.01118	0	47	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
66/499	OG	0.02405	0.01105	0	11	320:	1
	Class	Images	Instances	Р	R	mAP50	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
	Class	${\tt Images}$	Instances	P	R	mAP50	
	all	347	369	0.947	0.843	0.914	
0.548							
-	_	_	obj_loss	cls_loss	Instances	Size	
67/499	OG	0.02338	0.01216	0	38	320:	
libpng warning:			-	ofile			
67/499	OG	0.024	0.01231	0	42	320:	
libpng warning:			-				
67/499	OG	0.02376	0.01185	0	42	320:	
libpng warning:			-				
67/499	OG	0.02444	0.01128	0	35	320:	
libpng warning:			-		E.	200	
67/499	0G	0.02451	0.0113	0	51	320:	
libpng warning:			-		1.4	200	
67/499	0G	0.02465	0.01123	0	41	320:	
libpng warning:			_		o E	200.	
67/499	OG	0.0243	0.01119	0	35	320:	
libpng warning: 67/499	OG	0.02429	0.01123	0	46	320:	
libpng warning:					40	320.	
67/499	OG	0.02424	0.01122	0	42	320:	
libpng warning:					42	520.	
67/499	0G	0.02421	0.01116	0	44	320:	
libpng warning:					- 11	020.	
67/499	0G	0.02429	0.01119	0	12	320:	1
017 100	Class	Images	Instances	P	R	mAP50	_
	all	347	369	0.899	0.872	0.914	
0.554					3.3.2		
Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
68/499	OG	0.02544	0.01157	- 0	46	320:	

libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile			
68/499	OG	0.02517	0.01123	0	38	320:	
libpng warning:				-	33	020.	
68/499	OG	0.02485	0.01137	0	45	320:	
libpng warning:					10	020.	
68/499	OG	0.02484	0.01155	0	47	320:	
					41	320.	
libpng warning:			-		47	200	
68/499	OG	0.02477	0.01167	0	47	320:	
libpng warning:			-		10	000	
68/499	OG	0.02482	0.01154	0	40	320:	
libpng warning:			-				
68/499	OG	0.02477	0.01142	0	39	320:	
libpng warning:			ect sRGB pro	ofile			
68/499	OG	0.02471	0.01126	0	33	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile			
68/499	OG	0.02456	0.01117	0	47	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile			
68/499	OG	0.02443	0.01123	0	37	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile			
68/499	OG	0.0245	0.01176	0	14	320:	1
	Class		Instances	P	R.	mAP50	
	all	347	369	0.94	0.842	0.924	
0.538	~	01.		0.01	0.012	0.021	
0.000							
Epoch	GPU_mem	hox loss	obj_loss	cls loss	Instances	Size	
69/499	OG OG	0.02433	0.01102	0	41	320:	
libpng warning:				-	41	320.	
69/499	OG	0.0249	0.01085	0	47	320:	
					41	320:	
libpng warning:			-		F0	200	
69/499	0G	0.02489	0.01083	0	52	320:	
libpng warning:			-		4.5	000	
69/499	OG	0.02467	0.01082	0	45	320:	
libpng warning:			_	ofile			
69/499	OG	0.02435	0.01076	0	36	320:	
libpng warning:			_	ofile			
69/499	OG	0.02437	0.01075	0	45	320:	
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile			
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: kno			ofile			
70/499	OG	0.02517	0.0113	0	50	320:	
libpng warning:							
libpng warning:			_				
~r "uB.			TTO PINGE PIC				

70/499	0G 0.02523 0.01131 0 35	320:
libpng warning: 70/499	iCCP: known incorrect sRGB profile OG 0.02487 0.01114 0 48	320:
	iCCP: known incorrect sRGB profile OG 0.0246 0.01102 0 48	
libpng warning:	iCCP: known incorrect sRGB profile	
70/499 libpng warning:	OG 0.0242 0.01093 0 40 iCCP: known incorrect sRGB profile	320:
70/499 libpng warning:	OG 0.02438 0.01094 0 53	320:
70/499	OG 0.02429 0.0109 0 47 iCCP: known incorrect sRGB profile	320:
70/499	0G 0.02439 0.01086 0 49	320:
11bpng warning: 70/499	iCCP: known incorrect sRGB profile OG 0.0243 0.01086 0 48	320:
libpng warning:	iCCP: known incorrect sRGB profile	
70/499	0G 0.02406 0.01083 0 9	320: 1
	Class Images Instances P R	
	all 347 369 0.88 0.829	
0.547	u	
Epoch	GPU_mem box_loss obj_loss cls_loss Instances	Size
71/499	0G 0.02368 0.01045 0 46	320:
libpng warning:	iCCP: known incorrect sRGB profile	
71/499	0G 0.02427 0.009939 0 40	320:
libpng warning:	iCCP: known incorrect sRGB profile	
71/499	0G 0.02384 0.01018 0 44	320:
libpng warning:	iCCP: known incorrect sRGB profile	
71/499	0G 0.02379 0.0102 0 40	320:
libpng warning:	iCCP: known incorrect sRGB profile	
71/499	0G 0.02379 0.01036 0 47	320:
libpng warning:	iCCP: known incorrect sRGB profile	
	iCCP: known incorrect sRGB profile	
71/499	0G 0.02364 0.01038 0 40	320:
	iCCP: known incorrect sRGB profile	
71/499	0G 0.02358 0.01051 0 55	320:
	iCCP: known incorrect sRGB profile	
71/499	0G 0.02352 0.01052 0 39	320:
libpng warning:	iCCP: known incorrect sRGB profile	
71/499	0G 0.02357 0.01048 0 38	320:
libpng warning:	iCCP: known incorrect sRGB profile	
	iCCP: known incorrect sRGB profile	
71/499	0G 0.0236 0.01052 0 54	320:
libpng warning:	iCCP: known incorrect sRGB profile	
71/499	0G 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: kn	own incorr	ect sRGB pr	ofile		
72/499	OG	0.02288	0.01125	0	57	320:
libpng warning:			-			
72/499	OG	0.02303	0.01129	0	45	320:
libpng warning:			-		4.0	200
72/499	0G	0.02316	0.01122	0	49	320:
libpng warning: 72/499	OG	own incorr 0.02365	ест sкGB pr 0.0111		24	320:
12/499 libpng warning:				Ofile	34	320:
72/499	0G	0.02354	0.01102	0	41	320:
libpng warning:						020.
libpng warning:			-			
72/499	OG	0.02364	0.01098	0	43	320:
libpng warning	iCCP: kn	nown incorr	ect sRGB pr	ofile		
72/499	OG	0.02337	0.01095	0	55	320:
libpng warning	: iCCP: kn	own incorr	ect sRGB pr	ofile		
72/499	OG	0.02338	0.01093	0	44	320:
libpng warning	: iCCP: kn	nown incorr	ect sRGB pr	ofile		
72/499	OG	0.02345	0.01087	0	46	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pr	ofile		
72/499	OG	0.02348	0.01088	0	43	320:
libpng warning:			ect sRGB pr	ofile		
72/499	OG	0.02343	0.01087	0	8	320: 1
	Class	Images	Instances	P	8 R	320: 1 mAP50
72/499	Class : iCCP: kn	Images lown incorr	Instances ect sRGB pr	P	R	mAP50
	Class : iCCP: km Class	Images nown incorr Images	Instances ect sRGB pr Instances	P ofile P	R R	mAP50
libpng warning	Class : iCCP: kn	Images lown incorr	Instances ect sRGB pr	P	R	mAP50
	Class : iCCP: km Class	Images nown incorr Images	Instances ect sRGB pr Instances	P ofile P	R R	mAP50
libpng warning:	Class : iCCP: kn Class all	Images nown incorr Images 347	Instances ect sRGB pr Instances 369	Pofile P 0.92	R R 0.835	mAP50 0.903
libpng warning: 0.533 Epoch	Class : iCCP: kn Class all GPU_mem	Images nown incorr Images 347 box_loss	Instances ect sRGB pr Instances 369 obj_loss	P ofile P 0.92 cls_loss	R R 0.835	mAP50 mAP50 0.903
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Epoch 74/499	GPU_mem OG	box_loss 0.02215	obj_loss 0.01045	cls_loss	Instances 43	Size 320:
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74/499 libpng warning:	OG	0.02308	0.01062	0	54	320:
74/499	OG	0.0234	0.0107	0	53	320:
libpng warning: 74/499	OG	0.02321	0.01061	0	47	320:
libpng warning: 74/499	iCCP: kn OG	own incorre 0.0232	ect sRGB pro 0.01056	ofile 0	38	320:
libpng warning: 74/499	iCCP: kn	own incorre	ect sRGB pro	ofile 0	44	320:
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	all	347	369	0.941	0.848	0.905
0.535						
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libpng warning: iCCP: known incorrect sRGB profile			
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Class Images Instances P	R	mAP50	
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0.555			
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Epoch GPU_mem box_loss obj_loss cls_loss		Size	
76/499	44	320:	
libpng warning: iCCP: known incorrect sRGB profile 76/499 0G 0.02411 0.0103 0	41	320:	
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76/499 0G 0.02399 0.01021 0	40	320:	
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76/499 0G 0.0238 0.01066 0	55	320:	
libpng warning: iCCP: known incorrect sRGB profile			
76/499 0G 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 0G 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			
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Epoch GPU_mem box_loss obj_loss cls_loss 77/499 0G 0.02414 0.01061 0	Instances	Size 320:	
libpng warning: iCCP: known incorrect sRGB profile	38	320:	
77/499 0G 0.02419 0.01117 0	55	320:	
libpng warning: iCCP: known incorrect sRGB profile	33	320.	
77/499 0G 0.02431 0.01156 0	57	320:	
libpng warning: iCCP: known incorrect sRGB profile	01	020.	
77/499 0G 0.02373 0.01121 0	43	320:	
libpng warning: iCCP: known incorrect sRGB profile	_3		
77/499 0G 0.02379 0.0111 0	47	320:	
libpng warning: iCCP: known incorrect sRGB profile			
77/499 0G 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:	
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77/499	OG 0.02433 0.01072 0	7 320: 3	1
	Class Images Instances P	R mAP50	
	all 347 369 0.915 0	.829 0.886	
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Epoch	GPU_mem box_loss obj_loss cls_loss Insta	nces Size	
78/499	OG 0.02377 0.01011 0	45 320:	
libpng warning:	iCCP: known incorrect sRGB profile		
78/499	0G 0.02461 0.01101 0	56 320:	
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78/499	0G 0.02491 0.01117 0	46 320:	
•	iCCP: known incorrect sRGB profile	10 020.	
78/499	0G 0.02461 0.01106 0	43 320:	
•	iCCP: known incorrect sRGB profile	40 020.	
78/499	0G 0.02409 0.01087 0	42 320:	
•	iCCP: known incorrect sRGB profile	42 520.	
78/499	0G 0.0239 0.01079 0	38 320:	
		30 320.	
78/499	iCCP: known incorrect sRGB profile 0G 0.02381 0.01091 0	53 320:	
		55 520:	
	iCCP: known incorrect sRGB profile 0G 0.02353 0.01078 0	40 300.	
78/499		40 320:	
78/499	iCCP: known incorrect sRGB profile 0G 0.02339 0.01068 0	27 200.	
. 0, 200		37 320:	
	iCCP: known incorrect sRGB profile	45 200	
78/499	0G 0.02321 0.01067 0	45 320:	
	iCCP: known incorrect sRGB profile	40 200	
78/499	0G 0.02286 0.01062 0	40 320:	
	iCCP: known incorrect sRGB profile	4.0	
78/499	0G 0.02298 0.01063 0	46 320:	
	iCCP: known incorrect sRGB profile	4.4	
78/499	0G 0.02316 0.0107 0	44 320:	
	iCCP: known incorrect sRGB profile		
78/499	OG 0.02314 0.01066 0	42 320:	
	iCCP: known incorrect sRGB profile		
78/499	0G 0.02314 0.0106 0	36 320:	
	iCCP: known incorrect sRGB profile		
78/499	OG 0.02334 0.01062 0	41 320:	
	iCCP: known incorrect sRGB profile		
78/499	OG 0.02337 0.01061 0	40 320:	

libpng warning:			-	ofile		
78/499		0.02334	0.01059	0	42	320:
libpng warning:			_		4.0	000 4
78/499		0.02338	0.01066	0	13	320: 1
	Class	_	Instances	P	R	mAP50
0.519	all	347	369	0.909	0.844	0.896
0.519						
Epoch	GPU_mem b	ox loss	obj_loss	cls loss	Instances	Size
79/499	_	_	0.01156	0	50	320:
libpng warning:				ofile		
79/499		0.02263	0.01065	0	43	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
79/499	OG	0.02269	0.01045	0	48	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
79/499	OG	0.02244	0.01042	0	46	320:
libpng warning:			ect sRGB pro	ofile		
79/499		0.02298	0.01068	0	48	320:
libpng warning:			-			
79/499		0.02324	0.01089	0	51	320:
libpng warning:			-		07	200
79/499		0.02319	0.01086	0	37	320:
libpng warning: 79/499		n incorr 0.02327	0.01116	0	44	320:
libpng warning:					44	320.
79/499		0.02342	0.011	0	40	320:
libpng warning:					10	020.
79/499		0.02355	0.01112	0	41	320:
libpng warning:				ofile		
79/499		0.02354	0.01109	0	43	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
79/499	OG	0.02352	0.0111	0	41	320:
libpng warning:			-	ofile		
79/499		0.02361	0.01108	0	43	320:
libpng warning:			-			
79/499		0.02358	0.01096	0	34	320:
libpng warning:			_		40	200
79/499		0.02356	0.01091	0	43	320:
libpng warning: 79/499		n incorr 0.02351	ect skGB pro 0.0109		2.4	200.
19/499 libpng warning:				0 ofile	34	320:
79/499		n incorr 0.02342	0.01087	0	8	320: 1
10/400	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: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02418	0.01028	0	37	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02377	0.01013	0	41	320:
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02372	0.009774	0	35	320:
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
80/499	OG	0.0237	0.009781	0	39	320:
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02388	0.009771	0	37	320:
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02444	0.01002	0	42	320:
libpng warning:	: iCCP: km	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02445	0.01018	0	45	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02449	0.01022	0	45	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02426	0.01033	0	46	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02418	0.01031	0	48	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
libpng warning	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02409	0.01034	0	47	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02401	0.01052	0	53	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02399	0.01052	0	48	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02392	0.01052	0	40	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
80/499	OG	0.02399	0.01065	0	58	320:
libpng warning:	: iCCP: kn	own incorr	ect sRGB pro	ofile		
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: kn	own incorr	ect sRGB pro	ofile		
81/499	OG	0.02081	0.00901	0	44	320:
libpng warning	: iCCP: kn	own incorr	ect sRGB pro	ofile		
81/499	OG	0.02204	0.01009	0	55	320:
libpng warning	: iCCP: kn	own incorr	ect sRGB pro	ofile		

81/499		.02254	0.01052	0	44	320:	
libpng warning: 81/499	OG O	.02251	0.01057	0	49	320:	
libpng warning: 81/499		incorr.02274	rect sRGB pro 0.01067	ofile O	46	320:	
libpng warning: 81/499		incorr	ect sRGB pro 0.01067	ofile O	39	320:	
libpng warning:					00	020.	
81/499	OG O	.02319	0.01062	0	12	320:	1
	Class	Images	Instances	P	R	mAP50	
	all	347	369	0.909	0.851	0.904	
0.528							
-	_	x_loss	u –	cls_loss	Instances	Size	
82/499		.02272	0.0113	0	43	320:	
libpng warning:			-				
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
82/499		.02314	0.01084	0	43	320:	
libpng warning:			-				
libpng warning:			ect sRGB pro	ofile			
82/499	OG O	.02289	0.01055	0	39	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
82/499	OG O	.02293	0.01057	0	46	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
82/499	OG O	.02312	0.01055	0	45	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
82/499	OG O	.02307	0.01068	0	44	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
82/499		.02291	0.0106	0	48	320:	
libpng warning:			ect sRGB pro	ofile			
82/499		.02273	0.01069	0	57	320:	
libpng warning:	iCCP: known	incorr	_	ofile			
82/499		.02294	0.01062	0	40	320:	
libpng warning:			_	ofile			
82/499		.02303	0.0107	0	12	320:	1
		Images		Р	R	mAP50	
	all	347	369	0.907	0.824	0.903	
0.543							
Epoch	GPU_mem bo	x_loss	obj_loss	cls_loss	Instances	Size	
83/499	OG O	.02257	0.01124	0	47	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
83/499	OG O	.02285	0.01083	0	40	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
83/499		.02282	0.01063	0	39	320:	
libpng warning:	iCCP: known	incorr	ect sRGB pro	ofile			
83/499	OG O	.02269	0.01065	0	56	320:	

libpng warning:	iCCP: kno	own incorr	ect sRGB pro	file			
83/499	OG	0.02275	0.01059	0	43	320:	
libpng warning:	iCCP: kno		ect sRGB pro	file			
83/499	OG	0.02336	0.01076	0	45	320:	
libpng warning:	iCCP: kno	own incorr	ect sRGB pro	file			
libpng warning:	iCCP: knd	own incorr	ect sRGB pro	file			
83/499	OG	0.0235	0.0107	0	42	320:	
libpng warning:	iCCP: knd	own incorr	ect sRGB pro	file			
83/499	OG	0.02354	0.01079	0	46	320:	
libpng warning:	iCCP: knd	own incorr	ect sRGB pro	file			
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							
-			obj_loss		Instances	Size	
84/499	OG		0.01027	0	40	320:	
libpng warning:			-				
84/499	OG	0.02076	0.0104	0	55	320:	
libpng warning:			-		4.5	000	
84/499	OG	0.02104	0.01049	0	45	320:	
libpng warning:			-		00	000	
84/499	0G	0.02137	0.01053	0	39	320:	
libpng warning:			-		4.4	200	
84/499	0G	0.02108	0.01041	0	41	320:	
libpng warning: 84/499	OG	0.02095	0.01053	0	51	320:	
04/499 libpng warning:					51	320:	
84/499	OG	0.02212	0.0108	0	37	320:	
libpng warning:				_	31	320.	
84/499	OG	0.02258	0.01054	0	11	320:	1
04/ 433	Class		Instances	P	R	mAP50	1
	all	347	369	0.902	0.87	0.92	
0.562	all	011	000	0.502	0.07	0.02	
0.002							
Epoch (GPU_mem	box_loss	obj_loss	cls loss	Instances	Size	
85/499	OG	0.0209	0.008832	0	42	320:	
libpng warning:				file			
85/499	OG	0.02317	0.01011	0	48	320:	
libpng warning:	iCCP: kno	own incorr		file			
85/499	OG	0.02344	0.01105	0	46	320:	
libpng warning:	iCCP: kno	own incorr	ect sRGB pro	file			
libpng warning:			-				
85/499	OG	0.02262	0.01034	0	53	320:	
libpng warning:	iCCP: kno	own incorr	ect sRGB pro	file			
85/499	OG	0.02316	0.01054	0	37	320:	
libpng warning:	iCCP: knd	own incorr	ect sRGB pro	file			
85/499	OG	0.02316	0.01071	0	46	320:	

libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
85/499	OG	0.02341	0.01076	0	51	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
85/499	OG	0.02338	0.0108	0	43	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
85/499	OG	0.02334	0.01068	0	40	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
85/499	OG	0.02329	0.01056	0	42	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
85/499	OG	0.02319	0.01053	0	9	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
	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: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02234	0.01083	0	47	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02235	0.01081	0	47	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02272	0.01075	0	47	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02302	0.011	0	45	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02286	0.01086	0	45	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02283	0.01088	0	46	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02281	0.01085	0	49	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02285	0.01082	0	43	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
86/499	OG	0.02284	0.01082	0	44	320:
libpng warning:	iCCP: kno	own incorr	ect sRGB pr	ofile		
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	
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 0.8	818 0.871
0.525	all 347 369 0.887 0.8	818 0.871
Epoch	GPU_mem box_loss obj_loss cls_loss Instan	ces Size
Epoch 88/499	GPU_mem box_loss obj_loss cls_loss Instan OG 0.02084 0.01004 0	
Epoch 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instan OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile	ces Size 42 320:
Epoch 88/499 libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0	ces Size
Epoch 88/499 libpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instan- OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile	ces Size 42 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning:	GPU_mem box_loss obj_loss cls_loss Instanc OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instan- 0G 0.02084 0.01004 0 iCCP: known incorrect sRGB profile 0G 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile 0G 0.02357 0.01054 0	ces Size 42 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: 1bpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instance OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: 1bpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instance OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320: 51 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0	ces Size 42 320: 55 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: 1bpng warning: 88/499 libpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instant	ces Size 42 320: 55 320: 51 320: 45 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: 1bpng warning: 88/499 libpng warning: 88/499 libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant	ces Size 42 320: 55 320: 51 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: 1bpng warning: 88/499 libpng warning: 88/499 libpng warning: 88/499 libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.0105 0 iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320: 51 320: 45 320: 36 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499 libpng warning: 88/499 libpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instant	ces Size 42 320: 55 320: 51 320: 45 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instance OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile oG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.0105 0 iCCP: known incorrect sRGB profile OG 0.0233 0.01048 0 iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320: 51 320: 45 320: 36 320: 41 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.0105 0 iCCP: known incorrect sRGB profile OG 0.0233 0.01048 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0	ces Size 42 320: 55 320: 51 320: 45 320: 36 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.01059 0 iCCP: known incorrect sRGB profile OG 0.0233 0.01048 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0 iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320: 51 320: 45 320: 36 320: 41 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499 libpng warning: 1bpng warning: 88/499 libpng warning: 88/499 libpng warning:	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.0105 0 iCCP: known incorrect sRGB profile OG 0.0233 0.01048 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0 iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320: 51 320: 45 320: 41 320: 45 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.0105 0 iCCP: known incorrect sRGB profile OG 0.0233 0.01048 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0 iCCP: known incorrect sRGB profile OG 0.02298 0.0104 0	ces Size 42 320: 55 320: 51 320: 45 320: 36 320: 41 320:
Epoch 88/499 libpng warning: 88/499 libpng warning: libpng warning: 88/499	GPU_mem box_loss obj_loss cls_loss Instant OG 0.02084 0.01004 0 iCCP: known incorrect sRGB profile OG 0.02439 0.01003 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02357 0.01054 0 iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile iCCP: known incorrect sRGB profile OG 0.02379 0.01059 0 iCCP: known incorrect sRGB profile OG 0.02363 0.0105 0 iCCP: known incorrect sRGB profile OG 0.0233 0.01048 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0 iCCP: known incorrect sRGB profile OG 0.02311 0.01045 0 iCCP: known incorrect sRGB profile	ces Size 42 320: 55 320: 51 320: 45 320: 41 320: 45 320:

libpng warning:	iCCP: know	n incorr	rect sRGR pro	file			
88/499		0.02288	0.01046	0	50	320:	
libpng warning:				file			
88/499		0.02304	0.01051	0	41	320:	
libpng warning:	iCCP: know	n incorr	rect sRGB pro	file			
88/499	OG	0.02309	0.01051	0	39	320:	
libpng warning:	iCCP: know	n incorr	rect sRGB pro	file			
88/499	OG	0.02316	0.01051	0	44	320:	
libpng warning:	iCCP: know	n incorr	rect sRGB pro	file			
88/499		0.02315	0.01049	0	44	320:	
libpng warning:			-				
libpng warning:			-	file			
88/499		0.02321	0.01051	0	14	320:	1
	Class	Images	Instances	Р	R	mAP50	
	all	347	369	0.873	0.875	0.894	
0.525							
		_				~ .	
-			obj_loss		Instances	Size	
89/499		0.02211	0.01023	0	47	320:	
libpng warning:			-		40	200	
89/499		0.02218	0.01018	0	42	320:	
libpng warning: 89/499		n incorr 0.02206	0.01006		36	320:	
·				filo	30	320:	
libpng warning: 89/499		n incorr 0.02189	0.0101	0	55	320:	
libpng warning:					33	320.	
89/499		n incorr 0.02216	0.01003	0	33	320:	
libpng warning:					33	320.	
89/499		0.02219	0.0102	0	40	320:	
libpng warning:					10	020.	
89/499		0.02221	0.01023	0	45	320:	
libpng warning:				-	10	020.	
89/499		0.02226	0.01022	0	44	320:	
libpng warning:							
89/499	OG	0.0223	0.01016	0	39	320:	
libpng warning:	iCCP: know			file			
89/499		0.02236	0.01015	0	39	320:	
libpng warning:	iCCP: know	n incorr	rect sRGB pro	file			
89/499		0.02242	0.01009	0	35	320:	
libpng warning:	iCCP: know	n incorr	rect sRGB pro	file			
89/499	OG	0.0224	0.01015	0	13	320:	1
	Class	Images	Instances	Р	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	0G 0.0218 0.009847 0	31 320:
	iCCP: known incorrect sRGB profile	51 520:
90/499	-	42 320:
·	iCCP: known incorrect sRGB profile	020.
90/499		39 320:
·	iCCP: known incorrect sRGB profile	
90/499	-	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		41 320:
	iCCP: known incorrect sRGB profile	
90/499		43 320:
	iCCP: known incorrect sRGB profile	
90/499		11 320: 1
	Class Images Instances P	R mAP50
0.541	all 347 369 0.896 0.8	62 0.908
0.541		
Epoch	GPU_mem box_loss obj_loss cls_loss Instanc	es Size
91/499		50 320:
·	iCCP: known incorrect sRGB profile	020.
91/499	-	39 320:
	iCCP: known incorrect sRGB profile	
91/499	-	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		42 320:
	iCCP: known incorrect sRGB profile	
		36 320:
	iCCP: known incorrect sRGB profile	0.4
91/499		34 320:
91/499	iCCP: known incorrect sRGB profile 0G 0.02266 0.01035 0	36 320:
·	iCCP: known incorrect sRGB profile	30 320.
91/499	-	40 320:
·	iCCP: known incorrect sRGB profile	10 020.
91/499		46 320:
	iCCP: known incorrect sRGB profile	020.
91/499	-	41 320:
	iCCP: known incorrect sRGB profile	
91/499	-	12 320: 1
	Class Images Instances P	R mAP50
	all 347 369 0.883 0.8	67 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			-			
92/499	0G	0.02265	0.01032	0	58	320:
libpng warning			-		47	200
92/499 libpng warning	OG · iCCD· km	0.0227	0.01036	0 ofilo	47	320:
92/499	. 100F. KII OG	0.02274	0.01028	0	47	320:
libpng warning					Ξ1	520.
92/499	0G	0.02269	0.01039	0	46	320:
libpng warning						0201
92/499	OG	0.02268	0.0104	0	48	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
92/499	OG	0.02262	0.01037	0	47	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
92/499	OG	0.02252	0.01042	0	15	320: 1
	Class	Images		P	R	mAP50
	all	347	369	0.882	0.84	0.897
0.538						
п 1	apu		1 . 7		.	a:
Epoch	-	_	U –	cls_loss		Size
93/499	0G	0.02127		0 ofile	41	320:
libpng warning 93/499	: iccp: kn OG	0.02158	ect skGB pr 0.009	01116	38	320:
libpng warning					36	320.
93/499	. 1001. KII 0G	0.02175	0.008771	0	38	320:
libpng warning					33	020.
93/499	OG	0.02178	0.008815	0	42	320:
libpng warning			ect sRGB pr	ofile		
93/499	OG	0.02187	0.009101	0	47	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
93/499	OG	0.02229	0.009603	0	39	320:
libpng warning	: iCCP: kn	own incorre	ect sRGB pr	ofile		
93/499	OG	0.02245	0.009642	0	45	320:
libpng warning			-	ofile		
93/499	OG	0.02261	0.009898	0	41	320:
libpng warning			-			
93/499	OG	0.0226	0.009893	0	39	320:
libpng warning			-		40	200
93/499	0G	0.02259	0.009871	0	40	320:
libpng warning 93/499	: iccp: kn OG	0.02262	o.009829	01116	36	320:
libpng warning					30	320.
libpng warning			-			
93/499	. 1001. KII 0G	0.02259	0.009911	0	40	320:
libpng warning					10	020.
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						
	an	_				~ .
•	_	_	obj_loss	_		Size
94/499		0.02084	0.008356	0	40	320:
<pre>libpng warning: libpng warning:</pre>			-			
94/499).02014	0.009282	0	54	320:
libpng warning:					94	320.
94/499		0.02022	0.00968	0	41	320:
libpng warning:						020.
94/499		0.02108	0.01002	0	44	320:
libpng warning:						
94/499		0.02191	0.00997	0	34	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499	OG	0.022	0.00986	0	42	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
libpng warning:			_			
94/499		0.02215	0.01009	0	38	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499		.02203	0.01003	0	48	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499	OG C	.02189	0.01	0	38	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499	OG C	.02189	0.01001	0	43	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499	OG C	.02188	0.01002	0	47	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499	OG C	.02186	0.01013	0	49	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
94/499	OG C	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						
•	_	x_loss	_	cls_loss		Size
0%	0/64 L00:0)0 , ?i</td <td>t/s]libpng</td> <td>warning: iC</td> <td>CP: known i</td> <td>ncorrect sRGB</td>	t/s]libpng	warning: iC	CP: known i	ncorrect sRGB
profile						
95/499		0.02092	0.008709	0	41	320:
libpng warning:			-			
libpng warning:			-			
95/499		0.02274	0.01017	0	43	320:
libpng warning:			-			
libpng warning:			-		4.0	200
95/499		0.02313	0.01028	0	48	320:
libpng warning:			-		4.0	200
95/499	OG C	0.02254	0.01011	0	40	320:

libpng warning: iCCP: known incorrect sl	B profile
95/499 OG 0.02255 0.0	012 0 47 320:
libpng warning: iCCP: known incorrect sl	B profile
95/499 OG 0.0226 0.0	023 0 52 320:
libpng warning: iCCP: known incorrect sl	B profile
95/499 OG 0.0226 0.0	038 0 13 320: 1
Class Images Insta	ces P R mAP50
all 347	369 0.918 0.867 0.911
0.531	
Epoch GPU_mem box_loss obj	oss cls_loss Instances Size
96/499 OG 0.0231 0.0	047 0 38 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02328 0.00	966 0 37 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02331 0.00	937 0 33 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02306 0.0	017 0 46 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02293 0.0	019 0 47 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02286 0.0	019 0 46 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02303 0.0	026 0 38 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02297 0.0	027 0 44 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02301 0.0	029 0 44 320:
libpng warning: iCCP: known incorrect sl	B profile
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02302 0.0	034 0 42 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02297 0.0	035 0 47 320:
libpng warning: iCCP: known incorrect sl	B profile
96/499 OG 0.02295 0.0	031 0 13 320: 1
Class Images Insta	ices P R mAP50
libpng warning: iCCP: known incorrect sl	B profile
Class Images Insta	ices P R mAP50
all 347	369 0.891 0.867 0.91
0.536	
Epoch GPU_mem box_loss obj	oss cls_loss Instances Size
	0107 0 41 320:
libpng warning: iCCP: known incorrect sl	B profile
97/499 OG 0.02374 0.00	0 34 320:
libpng warning: iCCP: known incorrect sl	B profile
97/499 OG 0.02338 0.0	011 0 45 320:

97/499	OG	0.02375	0.01013	0	40	320:
libpng warning:	iCCP: know	wn incorre	ct sRGB pro	file		
97/499	OG	0.02296	0.01013	0	41	320:
libpng warning:			-		1.4	200
97/499 libpng warning:	OG	0.02316	0.01032	0	41	320:
97/499	OG	0.02265	0.01039	0	54	320:
libpng warning:					V -	0_0.
libpng warning:			-			
97/499	OG	0.02232	0.01041	0	53	320:
libpng warning:			-			
97/499	OG	0.02236	0.01037	0	46	320:
libpng warning: 97/499	OG 1CCP: know	wn incorre 0.02254	ect sRGB pro 0.01031	file 0	57	320:
libpng warning:					57	320.
97/499	OG	0.02258	0.01032	0	45	320:
libpng warning:	iCCP: know	wn incorre	ct sRGB pro	file		
97/499	OG	0.02257	0.01033	0	47	320:
libpng warning:	iCCP: know	wn incorre	ct sRGB pro	file		
97/499	OG	0.02279	0.01026	0	9	320: 1
	Class	0	Instances	Р	R	mAP50
0 51	all	347	369	0.878	0.822	0.881
0.51						
Epoch	GPU_mem k	oox_loss	obj_loss	cls_loss	Instances	Size
Epoch 98/499	GPU_mem b	oox_loss 0.02585	obj_loss 0.01066	cls_loss 0	Instances 40	Size 320:
98/499 libpng warning:	OG	0.02585	0.01066	0		
98/499 libpng warning: 98/499	OG iCCP: know OG	0.02585 wn incorre 0.02493	0.01066 ect sRGB pro 0.01032	ofile 0		
98/499 libpng warning: 98/499 libpng warning:	OG iCCP: know	0.02585 wn incorre 0.02493 wn incorre	0.01066 ect sRGB pro 0.01032 ect sRGB pro	ofile 0	40 51	320: 320:
98/499 libpng warning: 98/499 libpng warning: 98/499	OG iCCP: know OG iCCP: know	0.02585 wn incorre 0.02493 wn incorre 0.02228	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106	ofile 0	40	320:
98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning:	OG iCCP: know OG iCCP: know OG iCCP: know	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro	ofile 0 file 0 file 0	40 51 44	320: 320: 320:
98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning: 98/499	OG iCCP: know OG iCCP: know OG iCCP: know	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051	ofile 0 file 0 file 0	40 51	320: 320:
98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning:	OG iCCP: know OG iCCP: know OG iCCP: know	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro	ofile 0 file 0 file 0	40 51 44 39	320: 320: 320: 320:
98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning:	OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033	offile 0 file 0 file 0 file 0 file 0	40 51 44	320: 320: 320:
98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning: 98/499 libpng warning: 98/499	OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033	offile 0 file 0 file 0 file 0 file 0	40 51 44 39	320: 320: 320: 320:
98/499 libpng warning: 98/499	OG iCCP: know	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro	ofile 0 file 0 file 0 file 0 file 0	40 51 44 39 51 47	320: 320: 320: 320: 320:
98/499 libpng warning: 98/499	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.02164 wn incorre 0.0216	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01037	ofile 0 file 0 file 0 file 0 file 0 file 0 file 0	40 51 44 39 51	320: 320: 320: 320:
98/499 libpng warning:	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.0216 wn incorre 0.0216	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro	ofile	40 51 44 39 51 47 38	320: 320: 320: 320: 320: 320:
98/499 libpng warning: 98/499	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.02166 wn incorre 0.02166 wn incorre 0.02166 wn incorre 0.02166	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01031	offile	40 51 44 39 51 47	320: 320: 320: 320: 320:
98/499 libpng warning:	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.02166 wn incorre 0.02166 wn incorre 0.02166 wn incorre 0.02156 wn incorre	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01029 ect sRGB pro	ofile	40 51 44 39 51 47 38 41	320: 320: 320: 320: 320: 320: 320: 320:
98/499 libpng warning: 98/499	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.0216 wn incorre 0.0216 wn incorre 0.0216 wn incorre 0.0216	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01031 ect sRGB pro 0.01029 ect sRGB pro 0.01025	offile	40 51 44 39 51 47 38	320: 320: 320: 320: 320: 320:
98/499 libpng warning:	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.0216 wn incorre 0.0216 wn incorre 0.0216 wn incorre 0.0216	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01031 ect sRGB pro 0.01029 ect sRGB pro 0.01025	offile	40 51 44 39 51 47 38 41	320: 320: 320: 320: 320: 320: 320: 320:
98/499 libpng warning:	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.02156 wn incorre 0.02156 wn incorre 0.02157 wn incorre 0.02157 wn incorre 0.02171	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01029 ect sRGB pro 0.01029 ect sRGB pro 0.01025 ect sRGB pro 0.01029	offile	40 51 44 39 51 47 38 41	320: 320: 320: 320: 320: 320: 320: 320:
98/499 libpng warning: 98/499	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.02156 wn incorre 0.02157 wn incorre 0.02171 wn incorre 0.02171 wn incorre 0.02181	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01029 ect sRGB pro 0.01025 ect sRGB pro 0.01029	offile offile	40 51 44 39 51 47 38 41	320: 320: 320: 320: 320: 320: 320: 320:
98/499 libpng warning: 98/499	OG iCCP: know OG	0.02585 wn incorre 0.02493 wn incorre 0.02228 wn incorre 0.02216 wn incorre 0.02162 wn incorre 0.02154 wn incorre 0.02156 wn incorre 0.02157 wn incorre 0.02171 wn incorre 0.02171 wn incorre 0.02181	0.01066 ect sRGB pro 0.01032 ect sRGB pro 0.0106 ect sRGB pro 0.01051 ect sRGB pro 0.01033 ect sRGB pro 0.01037 ect sRGB pro 0.01031 ect sRGB pro 0.01029 ect sRGB pro 0.01025 ect sRGB pro 0.01029	offile offile	40 51 44 39 51 47 38 41 37	320: 320: 320: 320: 320: 320: 320: 320:

1:1	: aan . 1	·	DAD	£:1.			
libpng warning:			-		4.0	200	
98/499		.02199	0.01029	0	46	320:	
libpng warning:			_		11	200.	4
98/499		.02208	0.01026	0 P	11	320: 1 mAP50	L
		Images		_	R		
0.521	all	347	369	0.903	0.889	0.927	
0.521							
Epoch	GPU_mem bo	v logg	obj_loss	cle lose	Instances	Size	
99/499		.02114	0.01204	0	45	320:	
libpng warning:					40	320.	
99/499		0.0234	0.01038	0	52	320:	
libpng warning:					32	320.	
99/499		0.0225	0.01036	0	44	320:	
libpng warning:					44	320.	
99/499		.02237	0.01023	0	50	320:	
libpng warning:					30	320.	
99/499		.02259	0.01053	0	57	320:	
libpng warning:					31	320.	
libpng warning:			-				
99/499		.02218	0.01021		39	220.	
·				0	39	320:	
libpng warning:			-		10	200.	4
99/499		.02229	0.01017	0 P	12 R	320: 1	L
		•	Instances	_		mAP50	
0 525	all	347	369	0.896	0.862	0.917	
0.535							
Epoch	GPU_mem bo	x_loss	obj_loss	cla loga	Instances	Size	
100/499	_	.02234	0.01273	0	48	320:	
libpng warning:				_	40	320.	
100/499		.02211	0.0116	0	36	320:	
libpng warning:				-	30	320.	
100/499		.02153	0.009774	0	42	320:	
libpng warning:					42	320.	
100/499		.02148	0.009708	0	50	320:	
libpng warning:					30	320.	
100/499		.02179	0.009854	0	47	320:	
libpng warning:						320.	
100/499		.02169	0.009934	0	34	320:	
libpng warning:					04	020.	
libpng warning:			-				
100/499		.02176	0.01007	0	49	320:	
libpng warning:					43	320.	
100/499		.02176	0.01003	0	40	320:	
libpng warning:					40	320.	
110ping warning: 100/499		0.0218	0.01	0	38	320:	
libpng warning:					30	320.	
100/499		.02167	0.00997	0	41	320:	
100/433	OG U	.02101	0.00551	U	41	320.	

libpng warning: iCCP: known incorrect sRGB pr	cofile		
100/499 OG 0.02172 0.01006	0	13	320: 1
Class Images Instances	Р	R	mAP50
libpng warning: iCCP: known incorrect sRGB pr	cofile		
Class Images Instances	Р	R	mAP50
all 347 369	0.901	0.838	0.907
0.561			
Epoch GPU_mem box_loss obj_loss	_		Size
0% 0/64 [00:00 , ?it/s]libpng</td <td>warning: iC</td> <td>CP: known i</td> <td>ncorrect sRGB</td>	warning: iC	CP: known i	ncorrect sRGB
profile			
101/499 OG 0.02211 0.01024	0	47	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 OG 0.02232 0.01086	0	48	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 OG 0.02238 0.01041	0	45	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 OG 0.0226 0.01051	0	40	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 0G 0.02241 0.01063	0	44	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 0G 0.02212 0.01034	0	48	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 0G 0.02207 0.01029	0	42	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
libpng warning: iCCP: known incorrect sRGB pr	cofile		
101/499	0	50	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 0G 0.02197 0.01013	0	33	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
101/499 0G 0.02182 0.0102	0	39	320:
libpng warning: iCCP: known incorrect sRGB pr	cofile		
101/499	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	0	42	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
102/499	0	50	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
102/499	0	43	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
libpng warning: iCCP: known incorrect sRGB pr			
102/499 0G 0.02237 0.01013	0	40	320:
libpng warning: iCCP: known incorrect sRGB pr	ofile		
102/499	0	51	320:

libpng warning:	iCCP: know	m incorr	ect sRGR nro	file			
102/499	OG	0.02229	0.01026	0	46	320:	
libpng warning:					10	020.	
102/499	OG	0.02235	0.01018	0	50	320:	
libpng warning:	iCCP: know	√n incorr	ect sRGB pro	file			
102/499	OG	0.02234	0.01021	0	42	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	file			
102/499	OG	0.02232	0.01021	0	45	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	file			
102/499	OG	0.02222	0.01022	0	46	320:	
libpng warning:	iCCP: know		ect sRGB pro	ofile			
102/499	OG	0.02222	0.0104	0	15	320:	1
	Class	Images		Р	R	mAP50	
	all	347	369	0.943	0.848	0.918	
0.542							
	an	-				a .	
•	-	-	obj_loss	_	Instances	Size	
103/499	0G	0.01995	0.01005	0	40	320:	
libpng warning:			-		40	200	
103/499	0G	0.02039	0.009916	0	48	320:	
libpng warning:			-		Ε4	200.	
103/499	OG	0.02064	0.01021	0	54	320:	
libpng warning: 103/499	OG	o.02115	0.009899	0 0	44	320:	
libpng warning:				-	44	320:	
110ping warning: 103/499	OG	0.0213	0.009826	0	39	320:	
libpng warning:					39	320.	
103/499	OG	0.02087	0.009776	0	44	320:	
libpng warning:				-	-11	320.	
103/499	OG	0.0209	0.009679	0	32	320:	
libpng warning:				-	02	020.	
103/499	OG	0.0214	0.01005	0	45	320:	
libpng warning:					10	020.	
103/499	OG	0.02134	0.009982	0	35	320:	
libpng warning:						0_0.	
103/499	OG	0.02132	0.01013	0	40	320:	
libpng warning:							
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 k	oox_loss	obj_loss	cls_loss	Instances	Size	
104/499	- OG	0.0214	0.01071	- 0	42	320:	
libpng warning:	iCCP: know	n incorr	ect sRGB pro	file			
104/499	OG	0.02169	0.01075	0	43	320:	
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	file			
104/499	OG	0.02161	0.01067	0	40	320:	

lihnn	a warning.	i CCD · lz	noun incorr	ect sRGB pr	ofilo			
-	.04/499	OG	0.0214	0.01059	0	44	320:	
				ect sRGB pr		11	020.	
_	.04/499	OG	0.02135	0.01052	0	40	320:	
				ect sRGB pr	ofile			
-	.04/499	OG	0.02135	0.01054	0	43	320:	
libpn	ng warning:	iCCP: k	nown incorr	ect sRGB pr	ofile			
1	.04/499	OG	0.02122	0.0104	0	38	320:	
libpn	ng warning:	iCCP: k	nown incorr	ect sRGB pr	ofile			
1	.04/499	OG	0.0215	0.01045	0	51	320:	
-	•			ect sRGB pr				
	.04/499	OG	0.02148	0.01046	0	40	320:	
-				ect sRGB pr				
1	.04/499	OG	0.0214	0.01039	0	10	320:	1
		Class	Images		P	R	mAP50	
0.549	.	all	347	369	0.916	0.851	0.915	
0.549	,							
	Epoch	CDII mam	hov loss	obj_loss	cla loga	Instances	Size	
1	.05/499	OG OG	0.02302	0.01313	0	52	320:	
	•			ect sRGB pr	-	02	020.	
-	.05/499	OG	0.02128	0.009766	0	39	320:	
	•			ect sRGB pr	ofile			
-	.05/499	OG	0.02153	0.009949	0	48	320:	
libpn	g warning:	iCCP: k	nown incorr	ect sRGB pr	ofile			
1	.05/499	OG	0.02171	0.01045	0	46	320:	
libpn	ng warning:	iCCP: k	nown incorr	ect sRGB pr	ofile			
	.05/499	OG	0.02198	0.01033	0	52	320:	
-	0			ect sRGB pr				
	.05/499	OG	0.02207	0.01026	0	40	320:	
-				ect sRGB pr		- 4	000	
	.05/499	OG	0.02191	0.01047	0	51	320:	
-	0			ect sRGB pr		45	300.	
	.05/499	OG	0.02192	0.01031 rect sRGB pr	0	45	320:	
_	-			ect skGB pr ect skGB pr				
-	.05/499	0G	0.02204	0.0103	0	46	320:	
				ect sRGB pr		10	020.	
_	.05/499	OG	0.02221	0.01038	0	10	320:	1
		Class		Instances	P	R	mAP50	
libpn	ng warning:	iCCP: k	nown incorr	ect sRGB pr	ofile			
		Class	Images	Instances	P	R	mAP50	
		all	347	369	0.911	0.836	0.91	
0.547	•							
	-	GPU_mem	box_loss	•	cls_loss	Instances	Size	
	.06/499	OG	0.02025	0.009235	0	46	320:	
libpn	ng warning:	iCCP: k	nown incorr	ect sRGB pr	ofile			

106/499	OG O.	.02214 0	.009542	0	44	320:	
libpng warning:			_				
106/499			.009482	0	40	320:	
libpng warning:			-		47	200.	
106/499 libpng warning:			.009833	0	47	320:	
106/499			0.00982	0	44	320:	
libpng warning:					11	020.	
106/499			.009774	0	43	320:	
libpng warning:	iCCP: known	incorrect	sRGB profile				
106/499			.009957	0	38	320:	
libpng warning:	iCCP: known	incorrect	sRGB profile				
106/499			.009914	0	48	320:	
libpng warning:			-				
106/499			0.01015	0	51	320:	
libpng warning:			-				
106/499			0.01015	0	34	320:	
libpng warning:			-			000	
106/499			0.01009	0	41	320:	
libpng warning:			-				
libpng warning: 106/499			o.01011	0	42	320:	
libpng warning:					42	320.	
106/499			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 O.	.02199	0.01001	0	45	320:	
libpng warning:			•				
libpng warning:			_				
106/499			.009974	0	8	320:	1
		0	stances	Р	R	mAP50	
	all	347	369	0.89	0.857	0.891	
0.524							
Epoch	GPU_mem box	c_loss o	bj_loss cls	_loss	Instances	Size	
107/499	OG O.	.01894	0.01022	0	49	320:	
libpng warning:	iCCP: known	incorrect	sRGB profile				
107/499	OG O.	.02199	0.01027	0	37	320:	
libpng warning:	iCCP: known	incorrect	sRGB profile				
107/499	OG O.	.02247 0	.009967	0	46	320:	
libpng warning:			-				
107/499			0.01005	0	47	320:	
libpng warning:			-				
libpng warning:			-		22	222	
107/499	OG		.009999	0	38	320:	
libpng warning:			-		4.4	200	
107/499	OG O.	.02189	0.0101	0	41	320:	

libpng warning:	iCCP: kno	wn incorr	rect sRGB pro	ofile		
107/499	OG	0.02183	0.01016	0	50	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
107/499	OG	0.02185	0.01012	0	30	320:
libpng warning:	iCCP: kno		ect sRGB pro	ofile		
107/499	OG	0.02194	0.01015	0	52	320:
libpng warning:					0Z	020.
			0.01014		0	200. 1
107/499	OG	0.02202		0	9	320: 1
	Class	Images		P	R	mAP50
	all	347	369	0.864	0.807	0.867
0.502						
Epoch	GPU_mem 1	box_loss	obj_loss	cls_loss	Instances	Size
108/499	OG	0.0225	0.009502	0	43	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile		
108/499	OG	0.02147	0.009969	0	44	320:
libpng warning:						0_0.
108/499	OG	0.02142	0.0103	0	52	320:
·					52	520.
libpng warning:			-			
108/499	OG	0.02144	0.01025	0	41	320:
libpng warning:			-	ofile		
108/499	OG	0.02147	0.01035	0	46	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
108/499	OG	0.02147	0.01031	0	47	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
108/499	OG	0.02129	0.0103	0	47	320:
libpng warning:	iCCP: kno			ofile		
108/499	OG	0.02139	0.0102	0	40	320:
libpng warning:					10	020.
108/499	OG	wn incorr 0.02139	_		40	200.
·			0.01003	0	42	320:
libpng warning:			-			
108/499	OG	0.0215	0.01014	0	42	320:
libpng warning:				ofile		
108/499	OG	0.02147	0.01012	0	41	320:
libpng warning:	iCCP: know	wn incorr	rect sRGB pro	ofile		
108/499	OG	0.02153	0.01013	0	50	320:
libpng warning:	iCCP: know	wn incorr	ect sRGB pro	ofile		
108/499	OG	0.02147	0.01021	0	45	320:
libpng warning:	iCCP: kno	wn incorr	ect sRGB pro	ofile		
libpng warning:			-			
108/499	OG	0.02146	0.01024	0	41	320:
libpng warning:						020.
108/499	OG	wn incorr 0.02147	0.01027	_	12	320: 1
100/499				0		
	Class	Images	Instances	P	R	mAP50
0.554	all	347	369	0.919	0.848	0.907
0.551						

obj_loss

cls_loss Instances

Size

Epoch

GPU_mem

box_loss

109/499			0.009375	0	32	320:	
libpng warning: 109/499			t sRGB profil 0.009393	Le 0	43	320:	
libpng warning: 109/499			t sRGB profil 0.009646	Le 0	39	320:	
libpng warning: 109/499			t sRGB profil 0.009778	Le 0	41	320:	
libpng warning: 109/499			t sRGB profil 0.009801	Le 0	39	320:	
libpng warning: 109/499			t sRGB profil 0.009773	Le 0	41	320:	
libpng warning:						020.	
109/499	OG O	.02212	0.009995	0	10	320:	1
	Class	Images In	nstances	P	R	mAP50	
	all	347	369	0.868	0.84	0.891	
0.515							
Epoch (GPU_mem bo:	x_loss (obj_loss cl	ls_loss	Instances	Size	
110/499	OG O	.02061	0.01019	0	47	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02146	0.01019	0	44	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02119	0.01016	0	47	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02131	0.01002	0	42	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02151	0.01033	0	53	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02143	0.01003	0	36	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02138	0.009929	0	33	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG	0.0215	0.009819	0	36	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02167	0.009723	0	34	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02176	0.009807	0	42	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02178	0.00977	0	39	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG	0.0218	0.009772	0	42	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499		.02177	0.00991	0	45	320:	
libpng warning:	iCCP: known	incorrect	t sRGB profil	Le			
110/499	OG O	.02196	0.009907	0	7	320:	1
	Class	Images In	nstances	P	R	mAP50	
	all	347	369	0.873	0.851	0.898	

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
111/499	OG	0.02051	0.009866	0	60	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02077	0.00973	0	36	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02125	0.009808	0	45	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02099	0.009822	0	42	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02121	0.0101	0	51	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02149	0.01019	0	40	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02131	0.009772	0	38	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02128	0.009839	0	45	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02123	0.009814	0	40	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.0212	0.00991	0	52	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02116	0.009884	0	40	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
111/499	OG	0.02157	0.01002	0	11	320: 1
	Class	Images	Instances	P	R	mAP50
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
	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: kr	own incorr	ect sRGB pro	ofile		
112/499	OG	0.02151	0.01017	0	42	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
112/499	OG	0.02157	0.01026	0	51	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
112/499	OG	0.02166	0.01017	0	41	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
112/499	OG	0.02193	0.00997	0	40	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
112/499	OG	0.02186	0.009989	0	42	320:
libpng warning:	: iCCP: kr	own incorr	ect sRGB pro	ofile		
libpng warning:			-			
	. 1001 . 111	TOWIT THEOLI	ect sago pro	TITE		
112/499	0G	0.02199	0.01004	0	51	320:

libpng warning: iCCP: known incorrect sRGB profile		
112/499 OG 0.02174 0.009931 O	46	320:
libpng warning: iCCP: known incorrect sRGB profile		
112/499 OG 0.02161 0.009984 O	40	320:
libpng warning: iCCP: known incorrect sRGB profile		
112/499	45	320:
libpng warning: iCCP: known incorrect sRGB profile		
112/499	42	320:
libpng warning: iCCP: known incorrect sRGB profile		
112/499	11	320: 1
Class Images Instances P	R.	
all 347 369 0.893	0.797	
0.499	0.131	0.002
0.400		
Epoch GPU_mem box_loss obj_loss cls_loss	Instances	Size
	50	
	50	320:
libpng warning: iCCP: known incorrect sRGB profile	0.5	200
113/499 OG 0.01992 0.008993 O	35	320:
libpng warning: iCCP: known incorrect sRGB profile		
libpng warning: iCCP: known incorrect sRGB profile		
113/499 OG 0.0202 0.009074 O	44	320:
libpng warning: iCCP: known incorrect sRGB profile		
113/499 OG 0.02075 0.009484 O	44	320:
libpng warning: iCCP: known incorrect sRGB profile		
113/499	39	320:
libpng warning: iCCP: known incorrect sRGB profile		
113/499	46	320:
libpng warning: iCCP: known incorrect sRGB profile		
113/499	52	320:
libpng warning: iCCP: known incorrect sRGB profile		
113/499	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	12	020.
113/499 OG 0.02136 0.009933 0	53	320:
libpng warning: iCCP: known incorrect sRGB profile	33	320.
113/499 OG 0.02131 0.00991 0	41	320:
	41	320.
libpng warning: iCCP: known incorrect sRGB profile	7	200 . 1
113/499	7	
Class Images Instances P	R	
all 347 369 0.912	0.859	0.916
0.538		
	.	~ .
Epoch GPU_mem box_loss obj_loss cls_loss		
0% 0/64 [00:00 , ?it/s]libpng warning: iC</td <td>CP: known</td> <td>incorrect sRGB</td>	CP: 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: know	n incorr	ect sRGB pr	ofile		
114/499		0.02018	0.009924	0	57	320:
libpng warning: 114/499		n incorr 0.02016	rect sRGB pro 0.009783		20	200.
libpng warning:				O Ofile	38	320:
114/499		0.02042	0.009917	0	45	320:
libpng warning:						3201
114/499		0.02057	0.00978	0	48	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pr	ofile		
114/499		0.02051	0.009778	0	44	320:
libpng warning:			_	ofile		
114/499		0.02072	0.009698	0	44	320:
libpng warning:			_		E4	200
114/499		0.02099	0.009703	0 ofile	51	320:
libpng warning: 114/499		n incorr 0.02103	0.009696	01116	42	320:
libpng warning:					42	320.
114/499		0.02122	0.009794	0	40	320:
libpng warning:					10	020.
114/499		0.02123	0.009809	0	13	320: 1
,	Class		Instances	P	R	mAP50
libpng warning:		•		ofile		
. 0	Class	Images	_	P	R	mAP50
		_				
	all	347	369	0.909	0.854	0.914
0.552	all	347	369	0.909	0.854	0.914
Epoch	GPU_mem b	ox_loss	obj_loss	cls_loss	Instances	Size
Epoch 115/499	GPU_mem b	ox_loss 0.02169	obj_loss 0.01017	cls_loss 0		
Epoch 115/499 libpng warning:	GPU_mem b OG iCCP: know	ox_loss 0.02169 n incorr	obj_loss 0.01017 rect sRGB pro	cls_loss 0 ofile	Instances 48	Size 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG	ox_loss 0.02169 n incorr 0.02098	obj_loss 0.01017 Tect sRGB pr 0.009871	cls_loss 0 ofile 0	Instances	Size
Epoch 115/499 libpng warning: 115/499 libpng warning:	GPU_mem b OG iCCP: know OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro	cls_loss 0 ofile 0	Instances 48 39	Size 320: 320:
Epoch 115/499 libpng warning: 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG iCCP: know OG	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725	cls_loss 0 ofile 0 ofile	Instances 48	Size 320:
Epoch 115/499 libpng warning: 115/499 libpng warning:	GPU_mem b OG iCCP: know OG iCCP: know OG	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116	obj_loss 0.01017 ect sRGB pro 0.009871 ect sRGB pro 0.009725	cls_loss 0 ofile 0 ofile	Instances 48 39	Size 320: 320:
Epoch 115/499 libpng warning: 115/499 libpng warning: 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG iCCP: know OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725 rect sRGB pro 0.009908	cls_loss 0 ofile 0 ofile 0 ofile 0	Instances 48 39 37	Size 320: 320: 320:
Epoch 115/499 libpng warning: 115/499 libpng warning: 115/499 libpng warning:	GPU_mem b OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725 rect sRGB pro 0.009908	cls_loss 0 ofile 0 ofile 0 ofile 0	Instances 48 39 37	Size 320: 320: 320:
Epoch 115/499 libpng warning: 115/499 libpng warning: 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02162	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725 rect sRGB pro 0.009908 rect sRGB pro 0.01013	cls_loss 0 ofile 0 ofile 0 ofile 0 ofile 0	Instances 48 39 37 50	Size 320: 320: 320:
Epoch 115/499 libpng warning: 115/499 libpng warning: 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG iCCP: know OG iCCP: know OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02162	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725 rect sRGB pro 0.009908 rect sRGB pro 0.01013	cls_loss 0 ofile 0 ofile 0 ofile 0 ofile 0	Instances 48 39 37 50	Size 320: 320: 320:
Epoch 115/499 libpng warning:	GPU_mem b OG iCCP: know OG	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02162 n incorr 0.02178 n incorr	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725 rect sRGB pro 0.009908 rect sRGB pro 0.01013 rect sRGB pro 0.01011	cls_loss 0 ofile 0 ofile 0 ofile 0 ofile 0 ofile 0	Instances 48 39 37 50 38 42	Size 320: 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02162 n incorr 0.02178 n incorr	obj_loss 0.01017 rect sRGB pr 0.009871 rect sRGB pr 0.009725 rect sRGB pr 0.009908 rect sRGB pr 0.01013 rect sRGB pr 0.01011	cls_loss 0 ofile 0 ofile 0 ofile 0 ofile 0 ofile 0 ofile	Instances 48 39 37 50	Size 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02162 n incorr 0.02178 n incorr	obj_loss 0.01017 rect sRGB pr 0.009871 rect sRGB pr 0.009725 rect sRGB pr 0.009908 rect sRGB pr 0.01013 rect sRGB pr 0.01011 rect sRGB pr 0.01013	cls_loss 0 ofile	Instances 48 39 37 50 38 42 47	Size 320: 320: 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02162 n incorr 0.02178 n incorr 0.02178 n incorr	obj_loss 0.01017 rect sRGB pr 0.009871 rect sRGB pr 0.009725 rect sRGB pr 0.009908 rect sRGB pr 0.01013 rect sRGB pr 0.01011 rect sRGB pr 0.01013 rect sRGB pr 0.01013	cls_loss 0 ofile	Instances 48 39 37 50 38 42	Size 320: 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know OG	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178	obj_loss 0.01017 rect sRGB pro 0.009871 rect sRGB pro 0.009725 rect sRGB pro 0.009908 rect sRGB pro 0.01013 rect sRGB pro 0.01011 rect sRGB pro 0.01013 rect sRGB pro 0.01013 rect sRGB pro 0.01013 rect sRGB pro 0.0103	cls_loss 0 ofile	Instances 48 39 37 50 38 42 47 54	Size 320: 320: 320: 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178	obj_loss 0.01017 rect sRGB pr 0.009871 rect sRGB pr 0.009725 rect sRGB pr 0.009908 rect sRGB pr 0.01013 rect sRGB pr 0.01011 rect sRGB pr 0.01013 rect sRGB pr 0.0103 rect sRGB pr 0.0103	cls_loss 0 ofile	Instances 48 39 37 50 38 42 47 54	Size 320: 320: 320: 320: 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178	obj_loss 0.01017 rect sRGB pr 0.009871 rect sRGB pr 0.009725 rect sRGB pr 0.009908 rect sRGB pr 0.01013 rect sRGB pr 0.01011 rect sRGB pr 0.01013 rect sRGB pr 0.0103 rect sRGB pr 0.0103 rect sRGB pr 0.01028 Instances	cls_loss 0 ofile	Instances 48 39 37 50 38 42 47 54 14 R	Size 320: 320: 320: 320: 320: 320: 320: 320:
Epoch 115/499 libpng warning: 115/499	GPU_mem b OG iCCP: know	ox_loss 0.02169 n incorr 0.02098 n incorr 0.02116 n incorr 0.0217 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178 n incorr 0.02178	obj_loss 0.01017 rect sRGB pr 0.009871 rect sRGB pr 0.009725 rect sRGB pr 0.009908 rect sRGB pr 0.01013 rect sRGB pr 0.01011 rect sRGB pr 0.01013 rect sRGB pr 0.0103 rect sRGB pr 0.0103	cls_loss 0 ofile	Instances 48 39 37 50 38 42 47 54	Size 320: 320: 320: 320: 320: 320: 320: 320:

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/64 [0	0:00 , ?i</td <td>t/s]libpng</td> <td>warning: i</td> <td>CCP: known</td> <td>incorrect sRGB</td>	t/s]libpng	warning: i	CCP: known	incorrect sRGB
profile						
116/499	OG	0.02478	0.008906	0	44	320:
libpng warning	: iCCP: kr		-	rofile		
116/499	OG	0.02396	0.009618	0	45	320:
libpng warning			-	rofile		
116/499	OG	0.02318	0.01003	0	40	320:
libpng warning			-			
116/499	OG	0.02353	0.01032	0	45	320:
libpng warning			_			
116/499	OG	0.02203	0.009632	0	40	320:
libpng warning			-		40	200
116/499	0G	0.02178	0.009782	0	42	320:
libpng warning			-		47	200.
116/499	0G	0.02166	0.009727	0	47	320:
libpng warning	: ICCP: KI	0.02149	_		46	200.
116/499			0.009715	0	46	320:
libpng warning 116/499	OG	0.02163	ect skub pi 0.009835	0	56	320:
libpng warning					50	320.
116/499	. 100F. KI 0G	0.02173	0.009914	0	42	320:
libpng warning					42	320.
116/499	. 1001 . KI 0G	0.02154	0.009914	0	12	320: 1
110/ 133	Class		Instances	P	R	
libpng warning		_		_	10	mili oo
1101119 401111119	Class	Images	Instances	P	R.	mAP50
	all	347	369	0.877	0.812	
0.508	~	01.			0.012	0.000
Epoch	$\mathtt{GPU}_{\mathtt{mem}}$	box_loss	obj_loss	cls_loss	Instances	Size
117/499	OG	0.02336	0.01054		36	320:
libpng warning	: iCCP: kr	nown incorr	ect sRGB pi	cofile		
117/499	OG	0.02215	0.0103	0	45	320:
libpng warning	: iCCP: kr	nown incorr	ect sRGB pi	rofile		
117/499	OG	0.02181	0.009776	0	40	320:
libpng warning	: iCCP: kr	nown incorr	ect sRGB pi	cofile		
117/499	OG	0.02144	0.009463	0	33	320:
libpng warning	: iCCP: kr	nown incorr	ect sRGB pr	cofile		
117/499	OG	0.0218	0.009477	0	40	320:
libpng warning	: iCCP: kr	nown incorr	ect sRGB pr	rofile		
117/499	OG	0.02169	0.009388	0	32	320:
libpng warning			-	rofile		
117/499	OG	0.02158	0.0093	0	39	320:
libpng warning			_			
117/499	OG	0.02144	0.009406	0	33	320:
libpng warning	: iCCP: kr	nown incorr	ect sRGB p	cofile		

117/499	OG	0.02156	0.009519	0	40	320:
libpng warning:			_		4.0	
117/499	OG	0.0215	0.009513	0	46	320:
libpng warning: 117/499		n incorr 0.02147	0.009632	0 0 0	50	320:
libpng warning:					30	320.
117/499		0.02137	0.00969	0	13	320: 1
•	Class	Images	Instances	Р	R	mAP50
	all	347	369	0.873	0.819	0.877
0.502						
Epoch	GPU mem b	ox loss	obj_loss	cls loss	Instances	Size
118/499	_	0.02122	0.009687	0	41	320:
libpng warning:				ofile		
118/499	OG	0.02079	0.009774	0	49	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
118/499		0.02068	0.01003	0	49	320:
libpng warning:			_			
118/499		0.02113	0.0101	0	45	320:
libpng warning:		n incorr 0.02183	-		20	200.
118/499 libpng warning:			0.01011	0 Marile	29	320:
libpng warning:			_			
118/499		0.02141	0.009973	0	43	320:
libpng warning:						
118/499		0.02138	0.009933	0	43	320:
libpng warning:	iCCP: know	n incorr	ect sRGB pro	ofile		
118/499	OG	0.02148	0.009874	0	40	320:
libpng warning:			-	ofile		
118/499		0.02144	0.009867	0	43	320:
libpng warning:			_		4.17	222
118/499		0.02151	0.009981	0	47	320:
libpng warning: 118/499		n incorr 0.02145	0.009956	0 0	37	320:
libpng warning:					31	320.
118/499		0.02166	0.01005	0	15	320: 1
,	Class	Images		P	R	mAP50
	all	347	369	0.887	0.786	0.858
0.497						
-			obj_loss			Size
	1 0/64 [00:	00 , ?i</td <td>t/s]libpng w</td> <td>marning: iC</td> <td>CP: known ir</td> <td>correct sRGB</td>	t/s]libpng w	marning: iC	CP: known ir	correct sRGB
profile	OC	n n1002	0.0100	0	E0	220.
119/499 libpng warning:		0.01883 n incorr	0.0109	O ofile	52	320:
119/499		0.02031	0.01052	0	52	320:
libpng warning:					02	020.
119/499		0.02097	0.01002	0	44	320:

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	Class	Images	Instances	P	R	mAP50
	all	347	369	0.906	0.861	0.902
0.555						
Epoch	GPU_mem bo	x_loss	obj_loss	cls_loss	Instances	Size
121/499	OG (0.02298	0.01114	0	43	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
121/499	OG (0.02259	0.01094	0	50	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
121/499	OG (0.02141	0.01023	0	49	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
121/499		0.02139	0.01019	0	41	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
libpng warning:			-			
121/499		0.02142	0.0102	0	44	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
121/499		0.02145	0.01006	0	45	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
121/499		0.02135	0.009984	0	39	320:
libpng warning:						
121/499		0.02134	0.00994	0	38	320:
libpng warning:				ofile		
121/499		0.02135	0.009947	0	48	320:
libpng warning:				ofile		
121/499		0.02142	0.01001	0	49	320:
libpng warning:						
121/499		0.02143	0.009983	0	43	320:
libpng warning:						0_0.
121/499		0.02138	0.01007	0	17	320: 1
,	Class	Images		P	R.	mAP50
	all	347	369	0.908	0.864	0.915
0.538	Q	011	000	0.000	0.001	0.010
0.000						
Epoch	GPU_mem bo	x loss	obi loss	cls loss	Instances	Size
0%			-			ncorrect sRGB
profile	, 0,01 [00.0	,,,,,,	10, p1 11phu8	warming. 10	or . Illiowir i	noorroot blub
libpng warning:	iCCP: knowr	incorr	rect sRGR nr	ofile		
122/499		0.02013	0.009617	0	42	320:
libpng warning:					12	020.
122/499).01988	0.01016	0	54	320:
libpng warning:					01	020.
122/499		0.02031	0.01012	0	46	320:
libpng warning:					40	520.
122/499).02059	0.01023	0	54	320:
libpng warning:					04	020.
122/499).02074	0.01033	0	43	320:
libpng warning:					-10	020.
libpng warning:			_			
TIPPUE Warning.	TOOL . KIIOWI	. INCOIL	Td drive br	01116		

122/499		.02074	0.01038	0	43	320:
libpng warning: libpng warning:			_			
122/499		.02071	0.01042	0	49	320:
libpng warning:			rect sRGB pr	ofile		
122/499		.02068	0.01035	0	46	320:
libpng warning: 122/499		incorr .02071	rect sRGB pr 0.0103	ofile 0	41	320:
libpng warning:						020.
122/499		.02072	0.01029	0	42	320:
libpng warning:			-		10	200 . 4
122/499		.02091 Images	0.0103 Instances	0 P	12 R	320: 1 mAP50
	all	347	369	0.927	0.862	0.916
0.541						
-	GPU_mem bo		-			Size
123/499 libpng warning:		.02168	0.009141	0 of:lo	36	320:
123/499		.02154	0.009223	0	42	320:
libpng warning:					12	020.
123/499		.02154	0.009355	0	36	320:
libpng warning:	iCCP: known	incorr	ect sRGB pr	ofile		
123/499		.02162	0.009537	0	45	320:
libpng warning:			-		40	000
123/499 libpng warning:		.02161	0.009616	O Ofilo	42	320:
123/499		.02151	0.009596	0	43	320:
libpng warning:						
123/499	OG	0.0213	0.009685	0	40	320:
libpng warning:			-			
123/499		0.0216	0.009787	0	49	320:
libpng warning: 123/499		incorr .02158	ect skGB pr 0.009791	ofile 0	39	320:
libpng warning:					39	320.
123/499		.02163	0.009784	0	13	320: 1
		Images		Р	R	mAP50
	all	347	369	0.888	0.846	0.892
0.521						
Epoch	GPU_mem bo	v logg	obj_loss	cle lose	Tngtancas	Size
124/499	_	.01612	0.00922	0	50	320:
libpng warning:				ofile		
libpng warning:	iCCP: known	incorr	rect sRGB pr	ofile		
124/499		0.0197	0.009246	0	56	320:
libpng warning:			_		4.0	000
124/499 libpng warning:		.02132	0.009388 rect sRGB pr	0 ofile	48	320:
TIDDIE MOTHING:	TOOL . KIIOMII	. 1110011	nd anue 10er	OTITE		

124/499	0G 0.02156 0.009522 0	52	320:
libpng warning:	iCCP: known incorrect sRGB profile		
124/499	0G 0.02154 0.009732 0	46	320:
•	iCCP: known incorrect sRGB profile		
124/499	•	E0.	200.
•		52	320:
	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:
libong warning:	iCCP: known incorrect sRGB profile		
	iCCP: known incorrect sRGB profile		
	-	10	200 . 1
124/499	0G 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 l	Instances	Size
125/499	0G 0.02111 0.01029 0	46	320:
•		40	320.
1 0 0	iCCP: known incorrect sRGB profile		
125/499	OG 0.02109 0.01015 0	38	320:
libpng warning:	iCCP: known incorrect sRGB profile		
125/499	0G 0.02085 0.01024 0	39	320:
libong warning:	iCCP: known incorrect sRGB profile		
125/499	0G 0.02172 0.01026 0	42	320:
		12	020.
	iCCP: known incorrect sRGB profile	4.0	000
125/499	0G 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	0G 0.02136 0.009928 0	48	320:
	iCCP: known incorrect sRGB profile		0_0.
125/499	-	41	200.
		41	320:
	iCCP: known incorrect sRGB profile		
125/499	OG 0.02085 0.009886 0	43	320:
libpng warning:	iCCP: known incorrect sRGB profile		
125/499	0G 0.02075 0.009787 0	46	320:
	iCCP: known incorrect sRGB profile		
125/499	0G 0.02061 0.009798 0	48	320:
		40	520.
	iCCP: known incorrect sRGB profile		
125/499	0G 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	0G 0.02089 0.009917 0	41	320:
	iCCP: known incorrect sRGB profile		020.
	-	F0	200 -
125/499	0G 0.02077 0.009889 0	50	320:
	iCCP: known incorrect sRGB profile		
125/499	OG 0.02054 0.009627 0	43	320:

libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
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	cla loga	Instances	Size	
126/499	OG OG	0.02199	u –	0 (15	45	320:	
libpng warning:				•	10	020.	
126/499	OG	0.02266	0.01006	0	50	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
126/499	OG	0.02192	0.01059	0	44	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
126/499	OG	0.02077	0.009872	0	47	320:	
libpng warning:			-				
libpng warning:			-		4.0	200	
126/499	OG	0.02079	0.009892	0	46	320:	
libpng warning: 126/499	OG	0.02074	0.009797	0 0	35	320:	
libpng warning:				-	30	320.	
126/499	0G	0.02069	0.009829	0	46	320:	
libpng warning:				_	10	0201	
126/499	OG	0.02075	0.009745	0	45	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
126/499	OG	0.02085	0.009672	0	47	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
126/499	OG	0.02079	0.009668	0	51	320:	
libpng warning:			-	ofile			
126/499	OG	0.02083	0.009643	0	10	320:	1
	Class	Images		P	R	mAP50	
0.500	all	347	369	0.882	0.813	0.866	
0.522							
Epoch	GPU_mem	box_loss	ohi logg	cls_loss	Instances	Size	
127/499	OG OG	0.02029	u –	0	34	320:	
libpng warning:				-	01	0201	
127/499	OG	0.02047	0.009952	0	51	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
127/499	OG	0.02023	0.009974	0	45	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile			
127/499	OG	0.02022	0.009842	0	48	320:	
libpng warning:			-				
127/499	OG	0.02028	0.00983	0	42	320:	
libpng warning:			-		4.0	000	
127/499	OG	0.02015	0.009744	0	48	320:	
libpng warning: 127/499	OG	own incorr 0.02026	ect skGB pro 0.009627	0	45	320:	
127/499 libpng warning:					40	320:	
TINAME METHING.	1001 . KII	OWIL THOUTT	cer and bro)			

127/499 OG 0.02032 0.009622	0	35	320:
libpng warning: iCCP: known incorrect sRGB profile 127/499 0G 0.02066 0.009498	0	36	320:
libpng warning: iCCP: known incorrect sRGB profile	U	30	320.
127/499 0G 0.02062 0.009472	0	47	320:
libpng warning: iCCP: known incorrect sRGB profile	0	20	200
127/499 OG 0.02055 0.009357 libpng warning: iCCP: known incorrect sRGB profile	0	33	320:
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 0G 0.02042 0.009394	0	43	320:
libpng warning: iCCP: known incorrect sRGB profile	U	43	320:
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 0.8	351	0.807	0.849
0.492			
Epoch GPU_mem box_loss obj_loss cls_lo	ss In	stances	Size
0% 0/64 [00:00 , ?it/s]libpng warning</td <td></td> <td></td> <td>rrect sRGB</td>			rrect sRGB
profile			
128/499 OG 0.02054 0.01037	0	4.4	200.
	U	44	320:
libpng warning: iCCP: known incorrect sRGB profile			
128/499 0G 0.01924 0.009402	0	38	320:
128/499 OG 0.01924 0.009402 libpng warning: iCCP: known incorrect sRGB profile	0	38	320:
128/499			
128/499 OG 0.01924 0.009402 libpng warning: iCCP: known incorrect sRGB profile	0	38	320:
128/499 OG 0.01924 0.009402 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.01951 0.00961 libpng warning: iCCP: known incorrect sRGB profile	0	38 57	320: 320:
128/499	0	38 57	320: 320:
128/499	0 0 0 0	38 57 42 35	320: 320: 320: 320:
128/499	0 0	38 57 42	320: 320: 320:
128/499	0 0 0 0 0	38 57 42 35 46	320: 320: 320: 320: 320:
128/499	0 0 0 0	38 57 42 35	320: 320: 320: 320:
128/499	0 0 0 0 0	38 57 42 35 46	320: 320: 320: 320: 320:
128/499	0 0 0 0	38 57 42 35 46 36	320: 320: 320: 320: 320:
128/499	0 0 0 0	38 57 42 35 46 36	320: 320: 320: 320: 320:
128/499		38 57 42 35 46 36 57 47	320: 320: 320: 320: 320: 320: 320:
128/499	0 0 0 0 0	38 57 42 35 46 36 57	320: 320: 320: 320: 320: 320:
128/499 0G 0.01924 0.009402 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.01951 0.00961 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02052 0.00956 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.0206 0.009389 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02109 0.009752 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02097 0.009703 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02096 0.009787 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.021 0.009823 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02116 0.009786 libpng warning: iCCP: known incorrect sRGB profile		38 57 42 35 46 36 57 47	320: 320: 320: 320: 320: 320: 320: 320:
128/499		38 57 42 35 46 36 57 47 35	320: 320: 320: 320: 320: 320: 320: 320:
128/499 0G 0.01924 0.009402 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.01951 0.00961 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02052 0.00956 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.0206 0.009389 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02109 0.009752 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02097 0.009703 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02096 0.009787 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.021 0.009823 libpng warning: iCCP: known incorrect sRGB profile 128/499 0G 0.02116 0.009786 libpng warning: iCCP: known incorrect sRGB profile	0 0 0 0 0 0 0	38 57 42 35 46 36 57 47	320: 320: 320: 320: 320: 320: 320: 320:
128/499 OG 0.01924 0.009402 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.01951 0.00961 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.02052 0.00956 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.0206 0.009389 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.02109 0.009752 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.02097 0.009703 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.02096 0.009787 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.021 0.009823 libpng warning: iCCP: known incorrect sRGB profile 128/499 OG 0.02116 0.009786 libpng warning: </td <td>0 0 0 0 0 0 0</td> <td>38 57 42 35 46 36 57 47 35 9 R</td> <td>320: 320: 320: 320: 320: 320: 320: 320:</td>	0 0 0 0 0 0 0	38 57 42 35 46 36 57 47 35 9 R	320: 320: 320: 320: 320: 320: 320: 320:

Epoch	GPU_mem	box_loss	obj_loss	cls_l	oss	Instances	Size
129/499	OG	0.02142	0.01011		0	40	320:
libpng warning			_	ofile			
129/499	OG	0.02085	0.009862	6.13	0	34	320:
libpng warning 129/499	: iCCP: kno	own incorre 0.02128	-	ofile	0	40	200.
libpng warning			0.009977	ofilo	U	49	320:
libpng warning			-				
129/499	OG	0.02109	0.009821	01110	0	32	320:
libpng warning			ect sRGB pr	ofile			
129/499	OG	0.02106	0.009758		0	41	320:
libpng warning	: iCCP: kno	own incorre	ect sRGB pr	ofile			
129/499	OG	0.02102	0.009663		0	43	320:
libpng warning	: iCCP: kno		ect sRGB pr	ofile			
129/499	OG	0.02084	0.009618		0	42	320:
libpng warning			-				
libpng warning			_	ofile	•		222
129/499	0G	0.02096	0.009756	- -	0	59	320:
libpng warning libpng warning			-				
129/499	0G	0.02093	0.009718	oiie	0	40	320:
libpng warning				ofile	O	40	020.
129/499	OG	0.02094	0.009773	01110	0	38	320:
libpng warning	: iCCP: kno		ect sRGB pr	ofile			
129/499	OG	0.021	0.009781		0	46	320:
libpng warning	: iCCP: kno	own incorre	ect sRGB pr	ofile			
129/499	OG	0.02093	0.009728		0	41	320:
libpng warning			-	ofile			
129/499	OG	0.02096	0.00977	4.7	0	45	320:
libpng warning			_	ofile	0	0	200 - 1
129/499	OG Class	0.02113 Images	0.009645 Instances		0 P	8 R	320: 1 mAP50
	all	images 347	369	0	905	0.843	0.898
0.541	αΙΙ	011	303	0.	500	0.040	0.030
0.011							
Epoch	GPU_mem	box_loss	obj_loss	cls_l	.oss	Instances	Size
130/499	OG	0.01955	0.008878		0	45	320:
libpng warning		own incorre	ect sRGB pr	ofile			
130/499	OG	0.02053	0.009311		0	45	320:
libpng warning			-	ofile			
130/499	OG	0.0205	0.0092		0	42	320:
libpng warning			-	ofile	0	40	200
130/499 libpng warning	OG : iCCP: km/	0.0206	0.009233	ofilo	0	42	320:
130/499	0G	0.02074	0.009183	OTITE	0	36	320:
libpng warning				ofile	J	50	020.
130/499	OG 0G	0.0207	0.009328		0	45	320:
					-		

libpng warning: iCCP: known	-			
•	0.02079 0.00931	0	44	320:
libpng warning: iCCP: know	-			
libpng warning: iCCP: know	-			
130/499 OG (0.02076 0.009436	0	48	320:
libpng warning: iCCP: known	n incorrect sRGB profile			
130/499 OG (0.02074 0.009479	0	54	320:
libpng warning: iCCP: know	n incorrect sRGB profile			
130/499 OG	0.0207 0.009511	0	43	320:
libpng warning: iCCP: know	n incorrect sRGB profile			
130/499 OG (0.02069 0.009627	0	9	320: 1
Class	Images Instances	P	R	mAP50
libpng warning: iCCP: know	n incorrect sRGB profile			
Class	Images Instances	P	R	mAP50
all	347 369 0	.926	0.854	0.912
0.525				
Epoch GPU_mem bo	ox_loss obj_loss cls_	loss Ins	stances	Size
-	 OO , ?it/s]libpng warnin</td <td></td> <td></td> <td>rrect sRGB</td>			rrect sRGB
profile	, , , , , , , , , , , , , , , , , , , ,	0		
-	0.01941 0.007788	0	41	320:
libpng warning: iCCP: known				
1 0	0.02264 0.007946	0	36	320:
libpng warning: iCCP: known		Ü		020.
	0.02162 0.008906	0	38	320:
libpng warning: iCCP: know		v	00	020.
	0.02146 0.009358	0	45	320:
libpng warning: iCCP: know		V	10	020.
libpng warning: iCCP: know	-			
libpng warning: iCCP: know	-			
	0.02133 0.00927	0	49	320:
libpng warning: iCCP: know		V	13	020.
libpng warning: iCCP: know	-			
	0.02116 0.009218	0	41	320:
libpng warning: iCCP: known		U	41	320.
1 0	0.02104 0.009171	0	37	320:
libpng warning: iCCP: know		U	31	320.
	0.02111 0.009228	0	45	320:
libpng warning: iCCP: known		U	45	320.
	0.02119 0.009338	0	61	320:
		U	01	320.
libpng warning: iCCP: know	-	0	F0	200
	0.02113	0	52	320:
libpng warning: iCCP: known	-	0	4.4	200
131/499 OG	0.0211 0.009352	0	41	320:
libpng warning: iCCP: known	-			
libpng warning: iCCP: know	-	^	40	200
	0.02117 0.009395	0	40	320:
libpng warning: iCCP: know	i incorrect skds profile			

libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
131/499	OG	0.02116	0.009399	0	47	320:	
libpng warning:	iCCP: kn		-	file			
131/499	OG	0.02118	0.009624	0	15	320:	1
		•	Instances	P	R	mAP50	
0.536	all	347	369	0.925	0.821	0.91	
0.550							
Epoch	GPU_mem	box loss	obj_loss	cls loss	Instances	Size	
132/499	OG	0.02105	0.009271	0	44	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
132/499	OG	0.02076	0.009242	0	43	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
132/499	OG	0.02083	0.00929	0	41	320:	
libpng warning:			-				
132/499	OG	0.02088	0.009271	0	46	320:	
libpng warning:			-		4.0	200	
132/499	OG	0.02076	0.009255	0	40	320:	
libpng warning: 132/499	OG	0.02065	0.009268	0 0	49	320:	
libpng warning:				-	49	320.	
132/499	OG OG	0.02069	0.009255	0	43	320:	
libpng warning:				-	10	0201	
libpng warning:			-				
132/499	OG	0.02073	0.009225	0	44	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
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							
To a ala	ani	h 7	-h - 1	-1- 1	T	Q ÷	
-	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size	
133/499 libpng warning:	OG iCCD: kn	0.02112	0.01058	0 .filo	55	320:	
133/499	OG	0.02197	0.01011	0	32	320:	
libpng warning:					02	020.	
libpng warning:			-				
133/499	OG	0.02166	0.01026	0	50	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
133/499	OG	0.02151	0.0102	0	45	320:	
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	file			
133/499	OG	0.02117	0.009979	0	41	320:	
libpng warning:			-				
133/499	OG	0.02149	0.009942	0	38	320:	
libpng warning:			-			222	
133/499	OG	0.02086	0.009906	0	37	320:	
libpng warning:	ICCP: Kn	own incorr	ect skgs pro	тте			

133/499	OG	0.02062	0.009758	0	47	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
133/499	OG	0.0206	0.009733	0	39	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
133/499	OG	0.02044	0.009712	0	48	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
133/499	OG	0.02053	0.009795	0	56	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
133/499	OG	0.02058	0.009822	0	44	320:
libpng warning:	iCCP: kn	own incorr	ect sRGB pro	ofile		
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

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

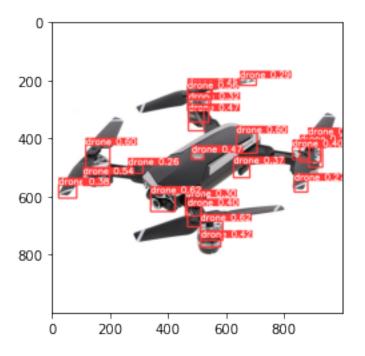
```
[]: img = './testImg/pic_031.jpg'

[]: 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/

otrain/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'

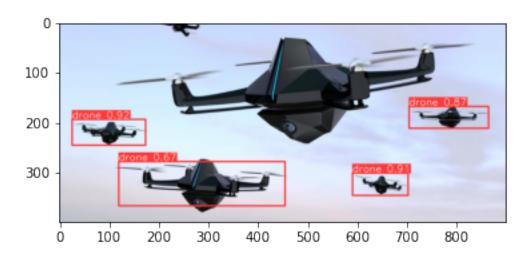
[]: results = model(img)

[]: 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()



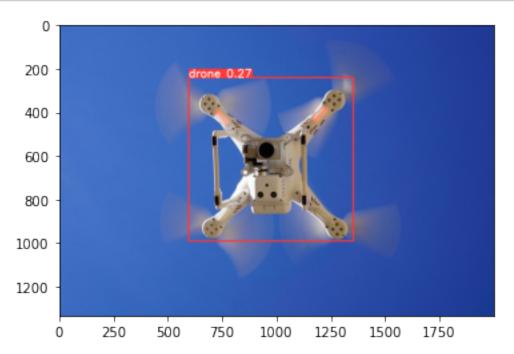
[]: img2='yolov5/drone_dataset/valid/images/0003.jpg'

[]: 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)

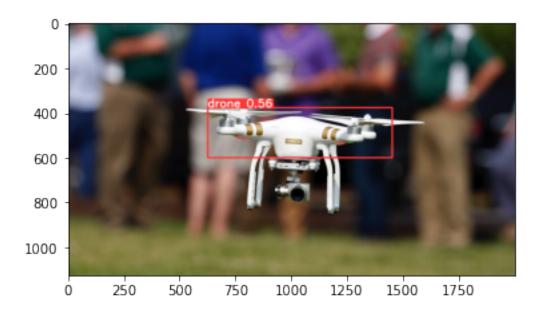
```
[]: %matplotlib inline
plt.imshow(np.squeeze(results.render()))
plt.show()
```



```
[]: 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()
```



4.1 Trained on complete training dataset

```
[]: from IPython.display import Image
Image(filename='train.png')

(base) ubuntu@suysah-ubuntu:-/aILAB/ZndSenLab/Expertment-2/v0L0-Drowstness-Detections of yolovs && python train.py --ing 1010 --batch 10 --epochs 100 --data data.yanl --weights yolovss.pt --workers 2 train: weights-yolovss.pt, cfps. data-data.yanl, hyp-data/hyps/hyp.scratch-low.yanl, epochs-100, batch_stze-10, ingsz=1010, rect-false, nosawe-false, noval-false, noval-false, noplots-false, evolve-indone, buckets, cache-indone, inage_weights-false, devices, multi_scale-false, single_cls-false, optinizer-500, sync_bn-false, uorker-s2, project-runs/frain, name-exp, exist_ob-false, quad-false, cos_lr-false, set_inde_indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-indonting-i
```

hyperparameters: lrd=0.01, lrf=0.01, nonentum=0.937, weight_decay=0.0005, warnup_epochs=3.0, warnup_monentum=0.8, warnup_blas_lr=0.1, box=0.05, cls=0.5, cls=0.10, obj=1.0, obj=1.0, obj=1.0, iou_t=0.2, anchor_t=4.0 fl_gamma=0.0, hsv_h=0.035, hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.1, scale=0.5, shear=0.0, perspective=0.0, flipir=0.5, nosaic=1.0, mtxup=0.0, copy_paste=0.0 clearML: run'pip install clearInt' to automatically track values and remotely trans voluos \$\frac{1}{2}\$ in ClearML crun'pip install clearInt' to automatically track and visualize and remotely trans voluos \$\frac{1}{2}\$ in ClearML crun'pip install conet_int' to automatically track and visualize voluos \$\frac{1}{2}\$ in since (clearML crun'pip install conet_int') to automatically track and visualize voluos \$\frac{1}{2}\$ in since (clearML crun'pip install conet_int') to automatically track and visualize voluos \$\frac{1}{2}\$ in since (clearML crun'pip install conet_int') to automatically track and visualize voluos \$\frac{1}{2}\$ in the clear v

```
[]: model = torch.hub.load('ultralytics/yolov5', 'custom', path='./yolov5/runs/

otrain/exp11/weights/last.pt')
```

Using cache found in /home/ubuntu/.cache/torch/hub/ultralytics_yolov5_master requirements: /home/ubuntu/.cache/torch/hub/requirements.txt not found, check failed.

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

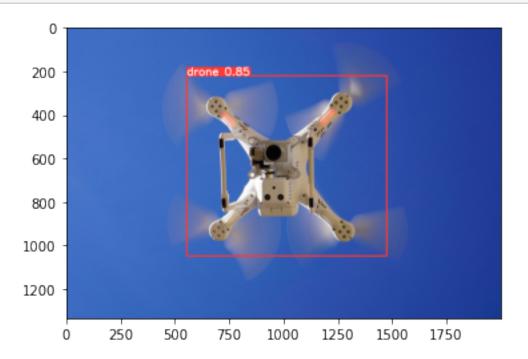
Fusing layers...

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

[]: 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()

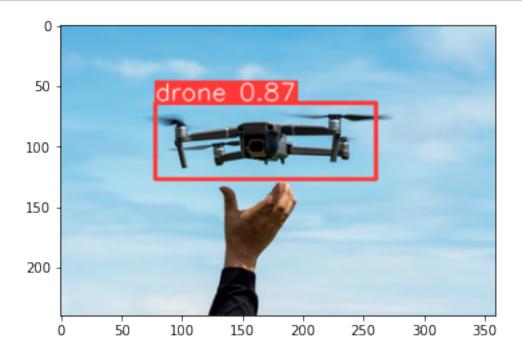


[]: results = model(img3)
results.print()

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()



```
[]: 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()





```
[]: 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)

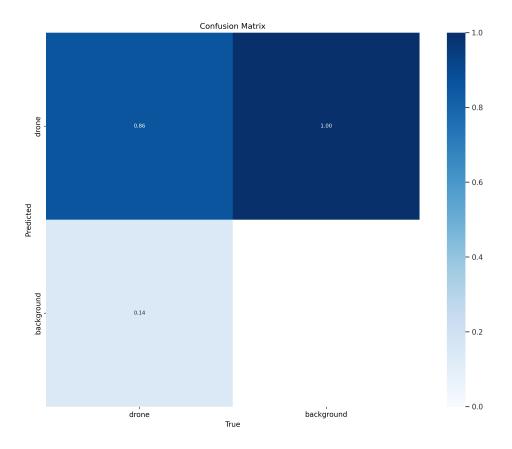
[]: %matplotlib inline plt.imshow(np.squeeze(results.render())) plt.show()



5 Results

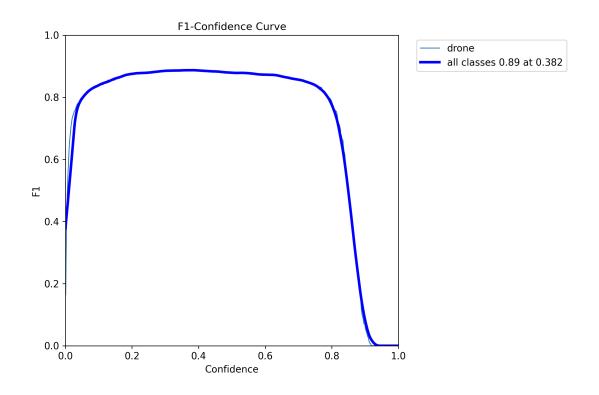
```
[]: from IPython.display import Image
Image(filename='./yolov5/runs/train/exp11/confusion_matrix.png')
```

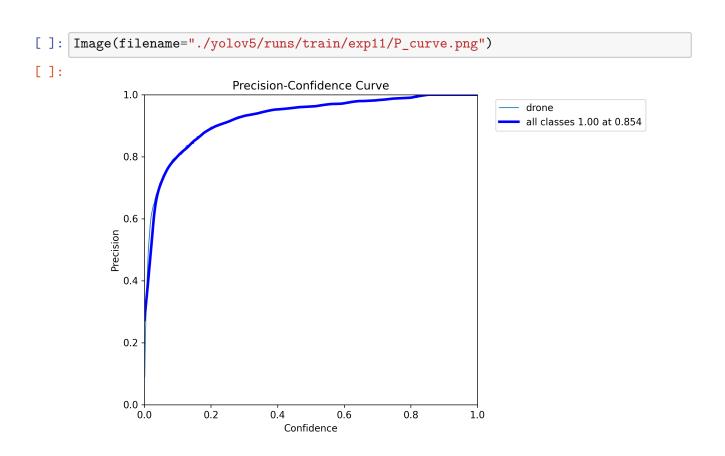
[]:



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

[]:





[]: Image(filename='./yolov5/runs/train/exp11/results.png') []: train/box_loss metrics/precision train/obj_loss train/cls_loss metrics/recall 0.022 0.10 0.9 0.04 0.020 0.9 0.8 0.08 0.018 0.02 0.8 0.7 0.016 0.06 0.00 0.7 0.014 0.6 -0.02 0.6 0.04 0.012 0.5 -0.04 0.5 0.010 0.02 0.4 100 50 100 50 100 50 val/box_loss val/obj_loss val/cls_loss metrics/mAP_0.5 metrics/mAP_0.5:0.95 0.07 0.04 0.9 0.011 0.5 0.8 0.010 0.02 0.06 0.7 0.009 0.00 0.05 0.6 0.008 -0.02 0.5 0.04 0.007 0.2 -0.04 0.4 0.006 0 0 50 50 100 50

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

[]:



[]:[