/content/Yolov8\_v8349/ultralytics-8.3.49

New https://pypi.org/project/ultralytics/8.3.59 available 😃 Update with 'pip install -U ultralytics'

Ultralytics 8.3.49 🚀 Python-3.10.12 torch-2.5.1+cu121 CUDA:0 (Tesla T4, 15102MiB)

engine/trainer: task=detect, mode=train, model=/content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/best\_915.pt, data=data1.yaml, epochs=400, time=None, patience=100, batch=32, imgsz=640, save=True, save\_period=-1, cache=False, device=None, workers=8, project=/content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2, name=train, exist\_ok=False, pretrained=/content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/best\_915.pt, optimizer=auto, verbose=True, seed=0, deterministic=True, single\_cls=False, rect=False, cos\_lr=False, close\_mosaic=10, resume=False, amp=True, fraction=1.0, profile=False, freeze=None, multi\_scale=False, overlap\_mask=True, mask\_ratio=4, dropout=0.0, val=True, split=val, save\_json=False, save\_hybrid=False, conf=None, iou=0.7, max\_det=300, half=False, dnn=False, plots=True, source=None, vid\_stride=1, stream\_buffer=False, visualize=False, augment=False, agnostic\_nms=False, classes=None, retina\_masks=False, embed=None, show=False, save\_frames=False, save\_txt=False, save\_conf=False, save\_crop=False, show\_labels=True, show\_conf=True, show\_boxes=True, line\_width=None, format=torchscript, keras=False, optimize=False, int8=False, dynamic=False, simplify=True, opset=None, workspace=None, nms=False, 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=7.5, cls=0.5, dfl=1.5, pose=12.0, kobj=1.0, nbs=64, 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, bgr=0.0, mosaic=1.0, mixup=0.0, copy\_paste=0.0, copy\_paste\_mode=flip, auto\_augment=randaugment, erasing=0.4, crop\_fraction=1.0, cfg=None, tracker=botsort.yaml, save\_dir=/content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train

Downloading https://ultralytics.com/assets/Arial.ttf to '/root/.config/Ultralytics/Arial.ttf'...

100% 755k/755k [00:00<00:00, 44.0MB/s]

from n params module arguments

0 -1 1 928 ultralytics.nn.modules.conv.Conv [3, 32, 3, 2]

1 -1 1 18560 ultralytics.nn.modules.conv.Conv [32, 64, 3, 2]

2 -1 1 29056 ultralytics.nn.modules.block.C2f [64, 64, 1, True]

3 -1 1 73984 ultralytics.nn.modules.conv.Conv [64, 128, 3, 2]

4 -1 2 197632 ultralytics.nn.modules.block.C2f [128, 128, 2, True]

5 -1 1 295424 ultralytics.nn.modules.conv.Conv [128, 256, 3, 2]

6 -1 2 788480 ultralytics.nn.modules.block.C2f [256, 256, 2, True]

7 -1 1 1180672 ultralytics.nn.modules.conv.Conv [256, 512, 3, 2]

8 -1 1 1838080 ultralytics.nn.modules.block.C2f [512, 512, 1, True]

9 -1 1 656896 ultralytics.nn.modules.block.SPPF [512, 512, 5]

10 -1 1 0 torch.nn.modules.upsampling.Upsample [None, 2, 'nearest']

11 [-1, 6] 1 0 ultralytics.nn.modules.conv.Concat [1]

12 -1 1 591360 ultralytics.nn.modules.block.C2f [768, 256, 1]

13 -1 1 0 torch.nn.modules.upsampling.Upsample [None, 2, 'nearest']

14 [-1, 4] 1 0 ultralytics.nn.modules.conv.Concat [1]

15 -1 1 148224 ultralytics.nn.modules.block.C2f [384, 128, 1]

16 -1 1 147712 ultralytics.nn.modules.conv.Conv [128, 128, 3, 2]

17 [-1, 12] 1 0 ultralytics.nn.modules.conv.Concat [1]

18 -1 1 493056 ultralytics.nn.modules.block.C2f [384, 256, 1]

19 -1 1 590336 ultralytics.nn.modules.conv.Conv [256, 256, 3, 2]

20 [-1, 9] 1 0 ultralytics.nn.modules.conv.Concat [1]

21 -1 1 1969152 ultralytics.nn.modules.block.C2f [768, 512, 1]

22 [15, 18, 21] 1 4272578 ultralytics.nn.modules.head.Detect [6, [128, 256, 512]]

Model summary: 271 layers, 13,292,130 parameters, 13,292,114 gradients, 36.5 GFLOPs

Transferred 409/409 items from pretrained weights

TensorBoard: Start with 'tensorboard --logdir /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train', view at http://localhost:6006/

Freezing layer 'model.22.dfl.conv.weight'

AMP: running Automatic Mixed Precision (AMP) checks...

Downloading https://github.com/ultralytics/assets/releases/download/v8.3.0/yolo11n.pt to 'yolo11n.pt'...

100% 5.35M/5.35M [00:00<00:00, 144MB/s]

AMP: checks skipped ⚠️. Unable to load YOLO11n for AMP checks due to possible Ultralytics package modifications. Setting 'amp=True'. If you experience zero-mAP or NaN losses you can disable AMP with amp=False.

train: Scanning /content/gdrive/MyDrive/CHV\_Dataset\_Y8/CHV\_Dataset\_Y8/train/labels.cache... 1064 images, 0 backgrounds, 0 corrupt: 100% 1064/1064 [00:00<?, ?it/s]

/usr/local/lib/python3.10/dist-packages/albumentations/\_\_init\_\_.py:24: UserWarning: A new version of Albumentations is available: 2.0.0 (you have 1.4.20). Upgrade using: pip install -U albumentations. To disable automatic update checks, set the environment variable NO\_ALBUMENTATIONS\_UPDATE to 1.

check\_for\_updates()

albumentations: Blur(p=0.01, blur\_limit=(3, 7)), MedianBlur(p=0.01, blur\_limit=(3, 7)), ToGray(p=0.01, num\_output\_channels=3, method='weighted\_average'), CLAHE(p=0.01, clip\_limit=(1.0, 4.0), tile\_grid\_size=(8, 8))

val: Scanning /content/gdrive/MyDrive/CHV\_Dataset\_Y8/CHV\_Dataset\_Y8/val/labels.cache... 133 images, 0 backgrounds, 0 corrupt: 100% 133/133 [00:00<?, ?it/s]

Plotting labels to /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train/labels.jpg...

optimizer: 'optimizer=auto' found, ignoring 'lr0=0.01' and 'momentum=0.937' and determining best 'optimizer', 'lr0' and 'momentum' automatically...

optimizer: AdamW(lr=0.001, momentum=0.9) with parameter groups 63 weight(decay=0.0), 76 weight(decay=0.0005), 81 bias(decay=0.0)

TensorBoard: model graph visualization added ✅

Image sizes 640 train, 640 val

Using 8 dataloader workers

Logging results to /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train

Starting training for 400 epochs...

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

1/400 9.13G 0.08891 0.2885 0.8887 123 640: 100% 34/34 [01:03<00:00, 1.86s/it]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:17<00:00, 5.75s/it]

all 133 917 0.906 0.844 0.9 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

2/400 8.71G 0.09389 0.301 0.8878 117 640: 100% 34/34 [00:22<00:00, 1.53it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.897 0.851 0.9 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

3/400 9.29G 0.1043 0.3242 0.8976 83 640: 100% 34/34 [00:22<00:00, 1.50it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.909 0.83 0.889 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

4/400 9.02G 0.1141 0.3427 0.9103 104 640: 100% 34/34 [00:23<00:00, 1.47it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.907 0.807 0.881 0.533

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

5/400 9.04G 0.1194 0.3522 0.9162 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.903 0.812 0.88 0.536

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

6/400 8.81G 0.1217 0.3597 0.916 95 640: 100% 34/34 [00:22<00:00, 1.50it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.894 0.858 0.895 0.534

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

7/400 8.82G 0.1222 0.3562 0.9247 100 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.874 0.85 0.889 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

8/400 8.82G 0.124 0.3562 0.9245 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.887 0.84 0.89 0.53

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

9/400 8.79G 0.1304 0.3665 0.9286 135 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.901 0.824 0.881 0.53

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

10/400 8.91G 0.1325 0.3647 0.9293 70 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.888 0.849 0.885 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

11/400 8.77G 0.1309 0.3629 0.9234 88 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.881 0.85 0.879 0.53

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

12/400 9.22G 0.1328 0.3664 0.9262 87 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.915 0.841 0.88 0.528

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

13/400 8.91G 0.1304 0.3609 0.9302 146 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.881 0.851 0.886 0.532

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

14/400 8.91G 0.1351 0.3627 0.9305 73 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.882 0.826 0.878 0.523

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

15/400 8.84G 0.1397 0.3727 0.9296 149 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.913 0.822 0.888 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

16/400 8.73G 0.1336 0.3562 0.9255 103 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.898 0.813 0.877 0.534

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

17/400 8.8G 0.1364 0.3621 0.9254 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.908 0.841 0.893 0.541

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

18/400 8.88G 0.1351 0.3514 0.9297 99 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.909 0.842 0.895 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

19/400 8.77G 0.1364 0.3621 0.9268 146 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.907 0.814 0.886 0.534

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

20/400 9.06G 0.1331 0.3598 0.926 60 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.9 0.846 0.892 0.537

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

21/400 8.84G 0.134 0.3552 0.9241 147 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.901 0.828 0.884 0.524

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

22/400 8.82G 0.1362 0.3586 0.9262 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.913 0.838 0.894 0.533

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

23/400 9.64G 0.143 0.3715 0.9304 134 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.928 0.825 0.897 0.538

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

24/400 8.92G 0.135 0.3572 0.9259 82 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.912 0.829 0.883 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

25/400 9.15G 0.1416 0.3616 0.9273 83 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.895 0.85 0.886 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

26/400 8.85G 0.1409 0.3616 0.9337 90 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.892 0.854 0.89 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

27/400 8.81G 0.1434 0.3633 0.9337 120 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.916 0.838 0.884 0.538

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

28/400 9.19G 0.1404 0.36 0.9296 134 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.908 0.823 0.886 0.532

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

29/400 8.95G 0.1367 0.3538 0.9257 82 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.29it/s]

all 133 917 0.899 0.859 0.89 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

30/400 9.4G 0.1391 0.359 0.9304 90 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.902 0.846 0.9 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

31/400 9.27G 0.1476 0.3653 0.9272 181 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.913 0.836 0.897 0.536

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

32/400 8.76G 0.1384 0.3561 0.9233 90 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.925 0.838 0.893 0.544

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

33/400 8.88G 0.1424 0.3597 0.9251 187 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.937 0.838 0.901 0.539

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

34/400 8.84G 0.1434 0.3581 0.9297 94 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.936 0.827 0.892 0.526

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

35/400 9.02G 0.1523 0.3665 0.9302 151 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.906 0.852 0.895 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

36/400 8.73G 0.1446 0.3582 0.9297 159 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.9 0.839 0.88 0.53

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

37/400 9.24G 0.142 0.3537 0.9265 148 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.915 0.844 0.898 0.543

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

38/400 8.8G 0.1439 0.3585 0.924 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.923 0.827 0.893 0.538

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

39/400 8.8G 0.1465 0.3592 0.9286 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.896 0.845 0.891 0.533

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

40/400 8.88G 0.1458 0.3596 0.9269 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.88 0.852 0.889 0.527

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

41/400 9.01G 0.1466 0.3544 0.929 82 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.912 0.811 0.881 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

42/400 8.81G 0.1433 0.3498 0.9254 66 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.898 0.835 0.892 0.541

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

43/400 9.33G 0.1396 0.3463 0.9218 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.908 0.837 0.883 0.537

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

44/400 8.82G 0.1471 0.3552 0.9277 114 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.891 0.85 0.888 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

45/400 8.77G 0.1492 0.3507 0.9266 164 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.903 0.841 0.891 0.544

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

46/400 8.92G 0.1458 0.3493 0.9212 74 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.892 0.867 0.896 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

47/400 8.89G 0.149 0.356 0.9266 116 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.907 0.834 0.885 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

48/400 9.19G 0.1443 0.3471 0.9206 88 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.882 0.842 0.894 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

49/400 8.82G 0.1479 0.3518 0.9248 99 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.887 0.853 0.898 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

50/400 8.88G 0.148 0.3522 0.9236 113 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.917 0.832 0.898 0.533

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

51/400 8.84G 0.1459 0.348 0.9239 69 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.897 0.827 0.885 0.53

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

52/400 8.75G 0.1413 0.3443 0.9204 68 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.918 0.831 0.894 0.541

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

53/400 8.89G 0.1487 0.3517 0.9255 74 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.912 0.82 0.887 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

54/400 8.83G 0.1488 0.3488 0.9261 107 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.911 0.829 0.896 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

55/400 8.81G 0.1468 0.3515 0.9237 132 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.892 0.865 0.906 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

56/400 8.9G 0.1492 0.3526 0.9227 136 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.889 0.852 0.892 0.537

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

57/400 9.22G 0.1451 0.3445 0.9213 95 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.907 0.839 0.89 0.538

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

58/400 9.23G 0.1397 0.3412 0.9157 92 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.9 0.84 0.891 0.539

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

59/400 8.83G 0.1466 0.3416 0.9207 132 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.912 0.856 0.9 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

60/400 8.62G 0.1515 0.3485 0.918 177 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.903 0.825 0.886 0.538

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

61/400 8.84G 0.1486 0.3472 0.9226 88 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.913 0.835 0.894 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

62/400 8.95G 0.1521 0.3511 0.9201 91 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.914 0.846 0.896 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

63/400 8.94G 0.1492 0.3429 0.9226 154 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.907 0.838 0.896 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

64/400 9.19G 0.1475 0.3442 0.9218 72 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.906 0.865 0.899 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

65/400 8.97G 0.1447 0.3393 0.9189 71 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.927 0.839 0.904 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

66/400 9.3G 0.1457 0.3411 0.9229 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.925 0.838 0.904 0.553

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

67/400 9.03G 0.1467 0.3416 0.9186 131 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.26it/s]

all 133 917 0.941 0.822 0.904 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

68/400 8.76G 0.1479 0.3442 0.9182 105 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.886 0.863 0.897 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

69/400 8.73G 0.1493 0.3435 0.9167 98 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.29it/s]

all 133 917 0.911 0.832 0.895 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

70/400 8.87G 0.1495 0.3403 0.9188 98 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.897 0.841 0.896 0.539

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

71/400 9.2G 0.1475 0.337 0.913 84 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.883 0.85 0.894 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

72/400 8.91G 0.1468 0.3317 0.9162 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.26it/s]

all 133 917 0.893 0.855 0.897 0.543

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

73/400 9.12G 0.1478 0.3391 0.9202 97 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.915 0.835 0.896 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

74/400 8.96G 0.15 0.3438 0.9198 99 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.921 0.849 0.895 0.541

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

75/400 8.84G 0.1483 0.3403 0.9202 106 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.31it/s]

all 133 917 0.92 0.814 0.893 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

76/400 8.8G 0.1504 0.3389 0.9158 96 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.898 0.846 0.891 0.541

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

77/400 8.78G 0.1481 0.3337 0.9149 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.915 0.834 0.896 0.543

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

78/400 9.01G 0.1466 0.332 0.9172 57 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.924 0.837 0.895 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

79/400 8.86G 0.1494 0.333 0.919 111 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.907 0.846 0.89 0.533

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

80/400 9.02G 0.1445 0.3349 0.9119 109 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.93 0.82 0.896 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

81/400 8.87G 0.1489 0.3363 0.9186 84 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.896 0.854 0.892 0.544

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

82/400 8.65G 0.1504 0.3408 0.9184 105 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.912 0.852 0.898 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

83/400 8.69G 0.1491 0.3363 0.9179 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.21it/s]

all 133 917 0.909 0.853 0.898 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

84/400 8.82G 0.1533 0.3383 0.9137 106 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.913 0.834 0.884 0.538

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

85/400 8.94G 0.1521 0.3407 0.9156 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.924 0.837 0.894 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

86/400 8.77G 0.1537 0.3354 0.9138 122 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.872 0.852 0.882 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

87/400 8.59G 0.1484 0.3294 0.9084 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.901 0.836 0.884 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

88/400 8.85G 0.1494 0.333 0.9154 122 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.92 0.859 0.899 0.535

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

89/400 8.74G 0.1506 0.3316 0.9087 84 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.912 0.843 0.892 0.541

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

90/400 8.7G 0.1505 0.3323 0.9148 89 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.902 0.847 0.896 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

91/400 9.23G 0.1513 0.3327 0.9101 138 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.92 0.842 0.903 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

92/400 8.9G 0.149 0.3306 0.91 94 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.896 0.852 0.895 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

93/400 9.06G 0.1528 0.331 0.912 74 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.918 0.839 0.894 0.544

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

94/400 9.4G 0.1491 0.3309 0.9076 108 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.904 0.838 0.883 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

95/400 8.77G 0.1553 0.3357 0.9151 106 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.914 0.845 0.9 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

96/400 8.99G 0.1462 0.327 0.9052 117 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.902 0.853 0.903 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

97/400 8.85G 0.1489 0.3255 0.9082 79 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.931 0.823 0.893 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

98/400 8.84G 0.1515 0.3298 0.9067 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.923 0.842 0.9 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

99/400 8.65G 0.1481 0.3273 0.9154 79 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.926 0.834 0.897 0.551

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

100/400 8.82G 0.1497 0.3274 0.9129 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.921 0.838 0.896 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

101/400 8.82G 0.1484 0.3253 0.9075 108 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.905 0.849 0.897 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

102/400 8.85G 0.1526 0.3261 0.9076 137 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.908 0.849 0.902 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

103/400 9.21G 0.1516 0.3309 0.907 125 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.926 0.848 0.904 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

104/400 8.85G 0.1511 0.3244 0.9093 81 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.902 0.841 0.893 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

105/400 8.82G 0.1456 0.319 0.9091 58 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.922 0.845 0.902 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

106/400 8.84G 0.1511 0.325 0.9056 68 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.915 0.852 0.897 0.553

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

107/400 9.01G 0.1485 0.3253 0.9019 118 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.898 0.853 0.898 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

108/400 9.16G 0.1465 0.3173 0.9045 66 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.921 0.849 0.904 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

109/400 8.8G 0.1555 0.3262 0.9106 90 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.926 0.839 0.899 0.551

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

110/400 8.83G 0.1543 0.3299 0.9093 142 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.91 0.844 0.89 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

111/400 8.82G 0.1559 0.3306 0.9089 134 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.931 0.851 0.9 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

112/400 9.36G 0.1522 0.3257 0.9055 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.899 0.848 0.898 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

113/400 9.16G 0.149 0.3203 0.9014 123 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.29it/s]

all 133 917 0.915 0.847 0.895 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

114/400 8.9G 0.146 0.3167 0.8985 115 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.913 0.845 0.9 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

115/400 9.18G 0.1528 0.3214 0.9106 125 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.939 0.817 0.9 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

116/400 8.6G 0.1497 0.3211 0.9073 103 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.925 0.832 0.899 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

117/400 8.87G 0.1488 0.3177 0.9037 103 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.927 0.83 0.898 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

118/400 8.86G 0.1539 0.3239 0.9056 156 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.909 0.848 0.901 0.553

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

119/400 9.31G 0.1516 0.3223 0.908 95 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.906 0.857 0.903 0.553

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

120/400 8.8G 0.1489 0.3186 0.9012 68 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.902 0.845 0.895 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

121/400 9.11G 0.1487 0.3189 0.9013 75 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.907 0.835 0.891 0.544

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

122/400 8.78G 0.1549 0.3235 0.9023 119 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.901 0.855 0.901 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

123/400 8.7G 0.149 0.3156 0.9013 91 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.918 0.828 0.902 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

124/400 9.18G 0.1495 0.3138 0.9003 114 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.905 0.844 0.904 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

125/400 8.82G 0.1521 0.3157 0.9003 151 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.892 0.857 0.899 0.557

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

126/400 8.78G 0.1456 0.3113 0.8962 95 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.92 0.822 0.886 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

127/400 8.98G 0.152 0.3169 0.8985 75 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.914 0.846 0.899 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

128/400 8.7G 0.1496 0.321 0.9022 107 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.899 0.839 0.887 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

129/400 8.88G 0.1455 0.3114 0.9025 102 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.906 0.823 0.888 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

130/400 9.28G 0.1563 0.32 0.9034 103 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.885 0.855 0.894 0.551

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

131/400 9.17G 0.1509 0.3169 0.9094 63 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.909 0.85 0.893 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

132/400 8.88G 0.1478 0.3114 0.8999 125 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.899 0.844 0.893 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

133/400 8.99G 0.1481 0.3122 0.9052 130 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.896 0.847 0.894 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

134/400 8.86G 0.15 0.3152 0.9024 59 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.897 0.854 0.896 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

135/400 8.67G 0.148 0.3133 0.9001 73 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.892 0.847 0.892 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

136/400 9.12G 0.1545 0.3197 0.9026 170 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.924 0.849 0.902 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

137/400 8.92G 0.1506 0.3141 0.9014 95 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.901 0.848 0.896 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

138/400 9.67G 0.1488 0.3139 0.898 109 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.912 0.82 0.886 0.543

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

139/400 8.83G 0.1489 0.3102 0.8962 127 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.923 0.84 0.902 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

140/400 8.87G 0.1517 0.3105 0.9008 147 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.879 0.846 0.891 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

141/400 9.32G 0.1509 0.31 0.9023 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.889 0.857 0.893 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

142/400 9.13G 0.1473 0.3068 0.8995 112 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.918 0.83 0.893 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

143/400 8.65G 0.15 0.309 0.895 106 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.92 0.821 0.888 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

144/400 9.2G 0.1545 0.3146 0.9042 152 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.886 0.85 0.897 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

145/400 8.82G 0.1525 0.3122 0.8998 85 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.886 0.836 0.883 0.54

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

146/400 9.17G 0.1583 0.3171 0.9087 84 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.916 0.825 0.882 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

147/400 8.94G 0.1594 0.3169 0.9024 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.91 0.832 0.892 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

148/400 9.19G 0.1531 0.3127 0.903 128 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.906 0.838 0.901 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

149/400 8.81G 0.1543 0.3114 0.9039 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.31it/s]

all 133 917 0.902 0.858 0.893 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

150/400 9.19G 0.1514 0.3078 0.8995 111 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.909 0.829 0.878 0.543

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

151/400 8.89G 0.1555 0.3113 0.8961 132 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.895 0.839 0.881 0.543

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

152/400 8.97G 0.1527 0.3099 0.904 78 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.918 0.82 0.883 0.542

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

153/400 9.18G 0.1595 0.3131 0.9007 98 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.927 0.834 0.889 0.536

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

154/400 8.89G 0.1644 0.3152 0.9021 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.921 0.847 0.899 0.549

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

155/400 9.4G 0.1589 0.3138 0.9031 71 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.908 0.851 0.898 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

156/400 8.82G 0.155 0.309 0.9068 79 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.904 0.854 0.896 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

157/400 9.31G 0.1558 0.3075 0.8984 84 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.911 0.83 0.888 0.545

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

158/400 8.73G 0.1511 0.3062 0.8969 104 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.889 0.84 0.883 0.546

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

159/400 8.75G 0.1535 0.3078 0.8957 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.906 0.844 0.885 0.544

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

160/400 8.84G 0.1562 0.3093 0.9029 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.898 0.836 0.886 0.551

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

161/400 9.15G 0.1557 0.3073 0.9016 160 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.51it/s]

all 133 917 0.914 0.838 0.888 0.548

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

162/400 8.77G 0.1545 0.307 0.9006 128 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.881 0.853 0.892 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

163/400 8.75G 0.1529 0.304 0.8976 80 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.893 0.839 0.884 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

164/400 8.76G 0.1526 0.3046 0.8971 109 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.909 0.827 0.886 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

165/400 8.77G 0.1515 0.3055 0.891 95 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.91 0.838 0.884 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

166/400 8.73G 0.1594 0.3102 0.8956 131 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.898 0.837 0.882 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

167/400 9.24G 0.1538 0.3034 0.8983 82 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.878 0.858 0.884 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

168/400 8.83G 0.1538 0.3046 0.9035 94 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.901 0.85 0.893 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

169/400 8.97G 0.1589 0.3084 0.9006 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.9 0.85 0.892 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

170/400 8.83G 0.1526 0.3043 0.8953 131 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.894 0.844 0.89 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

171/400 8.88G 0.1569 0.304 0.8924 116 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.925 0.826 0.889 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

172/400 8.79G 0.1612 0.3094 0.8979 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.907 0.854 0.897 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

173/400 8.79G 0.1513 0.3029 0.8949 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.905 0.849 0.888 0.547

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

174/400 8.77G 0.1547 0.3028 0.897 83 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.904 0.85 0.896 0.553

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

175/400 8.8G 0.1522 0.303 0.8947 117 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.922 0.817 0.892 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

176/400 8.81G 0.1576 0.3094 0.8958 110 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.889 0.851 0.895 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

177/400 8.93G 0.1535 0.3005 0.8967 87 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.908 0.85 0.908 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

178/400 9.28G 0.1572 0.3059 0.8928 140 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.923 0.834 0.901 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

179/400 8.91G 0.1519 0.2962 0.8936 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.914 0.845 0.901 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

180/400 8.84G 0.1547 0.3045 0.8936 167 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.905 0.851 0.895 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

181/400 8.91G 0.1552 0.3003 0.8918 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.897 0.863 0.898 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

182/400 8.83G 0.1558 0.3004 0.894 70 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.892 0.853 0.887 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

183/400 8.95G 0.1542 0.2989 0.8963 87 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.50it/s]

all 133 917 0.897 0.86 0.896 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

184/400 8.84G 0.1523 0.2978 0.8923 94 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.92 0.856 0.899 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

185/400 9.36G 0.1538 0.3018 0.894 112 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.91 0.859 0.892 0.554

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

186/400 8.88G 0.1491 0.2954 0.8907 156 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.902 0.834 0.887 0.552

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

187/400 9.13G 0.1516 0.2976 0.8913 62 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.904 0.841 0.893 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

188/400 9.2G 0.1525 0.2981 0.8926 78 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.907 0.844 0.894 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

189/400 8.57G 0.1558 0.3021 0.8929 83 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.9 0.866 0.904 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

190/400 8.93G 0.1566 0.2996 0.8925 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.897 0.863 0.905 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

191/400 9.16G 0.1519 0.2958 0.894 85 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.908 0.865 0.907 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

192/400 8.89G 0.1468 0.2946 0.8874 96 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.905 0.865 0.901 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

193/400 9.24G 0.1528 0.2963 0.8884 148 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.886 0.86 0.896 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

194/400 8.85G 0.1533 0.2973 0.8974 104 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.887 0.858 0.894 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

195/400 8.84G 0.154 0.2953 0.8919 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.885 0.862 0.895 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

196/400 8.82G 0.1541 0.2981 0.8938 74 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.917 0.849 0.901 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

197/400 8.88G 0.1513 0.2957 0.8897 66 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.908 0.844 0.898 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

198/400 8.54G 0.1583 0.3029 0.8925 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.28it/s]

all 133 917 0.923 0.821 0.896 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

199/400 8.9G 0.1525 0.2942 0.8872 165 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.91 0.85 0.908 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

200/400 9.21G 0.1544 0.295 0.8895 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.909 0.866 0.912 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

201/400 8.91G 0.1487 0.2871 0.8898 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.923 0.846 0.905 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

202/400 8.93G 0.1484 0.288 0.895 64 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.903 0.87 0.908 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

203/400 8.85G 0.1556 0.2923 0.8891 68 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.884 0.857 0.888 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

204/400 8.86G 0.1489 0.2897 0.8922 62 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.898 0.848 0.89 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

205/400 8.84G 0.1532 0.2939 0.8911 95 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.894 0.849 0.898 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

206/400 9.11G 0.151 0.2906 0.8872 140 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.898 0.865 0.899 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

207/400 8.9G 0.1522 0.2911 0.8906 109 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.88 0.869 0.899 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

208/400 8.75G 0.1516 0.2897 0.8859 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.908 0.853 0.902 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

209/400 9.19G 0.1537 0.2944 0.8901 50 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.903 0.844 0.895 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

210/400 8.68G 0.1457 0.2865 0.8867 121 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.88 0.863 0.897 0.561

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

211/400 8.93G 0.1491 0.2899 0.894 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.913 0.841 0.903 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

212/400 8.6G 0.1514 0.2923 0.8893 116 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.909 0.863 0.904 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

213/400 8.81G 0.1564 0.2936 0.8889 114 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.897 0.836 0.896 0.55

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

214/400 8.88G 0.1487 0.2916 0.8896 130 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.912 0.849 0.911 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

215/400 8.84G 0.1526 0.2908 0.8895 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.892 0.856 0.898 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

216/400 8.81G 0.1556 0.2917 0.8881 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.883 0.868 0.899 0.556

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

217/400 9.1G 0.1525 0.2885 0.8826 124 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.27it/s]

all 133 917 0.91 0.846 0.903 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

218/400 8.78G 0.1466 0.2844 0.8906 116 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.898 0.865 0.908 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

219/400 8.86G 0.1518 0.2876 0.8851 135 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.898 0.848 0.906 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

220/400 8.9G 0.1525 0.2896 0.8912 78 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.913 0.85 0.906 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

221/400 8.77G 0.146 0.2832 0.8841 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.899 0.859 0.904 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

222/400 8.85G 0.1493 0.2873 0.8881 77 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.911 0.863 0.908 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

223/400 8.91G 0.148 0.2803 0.8884 110 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.89 0.873 0.908 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

224/400 8.91G 0.154 0.287 0.8886 115 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.892 0.867 0.902 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

225/400 8.76G 0.1508 0.2886 0.8844 104 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.889 0.873 0.902 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

226/400 8.82G 0.1506 0.2877 0.8906 99 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.908 0.863 0.905 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

227/400 9.31G 0.1437 0.2803 0.8837 65 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.904 0.856 0.907 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

228/400 8.87G 0.1491 0.2846 0.8829 80 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.911 0.854 0.91 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

229/400 8.8G 0.1471 0.2811 0.8792 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.908 0.857 0.904 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

230/400 8.8G 0.1479 0.2813 0.8815 78 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.906 0.86 0.903 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

231/400 8.85G 0.1506 0.2862 0.8839 101 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.906 0.857 0.903 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

232/400 8.81G 0.1481 0.2877 0.8877 53 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.901 0.861 0.907 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

233/400 9.09G 0.1453 0.2806 0.8775 105 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.922 0.852 0.906 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

234/400 8.84G 0.144 0.2824 0.8827 140 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.911 0.854 0.904 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

235/400 8.83G 0.1447 0.2822 0.8812 83 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.891 0.86 0.903 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

236/400 8.84G 0.1481 0.2793 0.8832 120 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.909 0.845 0.902 0.558

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

237/400 8.86G 0.1433 0.279 0.8799 82 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.902 0.861 0.904 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

238/400 8.91G 0.1413 0.2755 0.8782 74 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.91 0.842 0.901 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

239/400 9.58G 0.147 0.2808 0.8804 124 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.909 0.847 0.897 0.555

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

240/400 8.95G 0.1492 0.2833 0.882 69 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.897 0.858 0.901 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

241/400 8.9G 0.1482 0.281 0.878 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.9 0.848 0.899 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

242/400 8.92G 0.149 0.2822 0.8827 54 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.91 0.838 0.901 0.557

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

243/400 9.01G 0.1428 0.2786 0.8811 77 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.891 0.86 0.901 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

244/400 8.89G 0.1484 0.2811 0.8828 95 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.912 0.848 0.903 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

245/400 8.61G 0.1423 0.2782 0.878 156 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.893 0.864 0.902 0.559

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

246/400 9.61G 0.1453 0.2793 0.8768 132 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.919 0.849 0.906 0.56

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

247/400 8.79G 0.1414 0.2718 0.8802 129 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.92 0.853 0.907 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

248/400 8.81G 0.1431 0.2754 0.8846 85 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.905 0.862 0.906 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

249/400 8.85G 0.1451 0.2794 0.8811 121 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.914 0.858 0.906 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

250/400 8.88G 0.1445 0.2759 0.8833 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.93 0.851 0.909 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

251/400 9.14G 0.1469 0.2771 0.8804 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.901 0.86 0.905 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

252/400 9.27G 0.1398 0.2717 0.8727 124 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.926 0.838 0.901 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

253/400 8.88G 0.1494 0.2807 0.8815 121 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.908 0.853 0.9 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

254/400 8.85G 0.1453 0.2749 0.8791 77 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.913 0.841 0.9 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

255/400 9.34G 0.1481 0.2765 0.8789 131 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.911 0.847 0.904 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

256/400 8.83G 0.1437 0.2765 0.877 118 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.917 0.845 0.904 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

257/400 8.77G 0.1475 0.2766 0.8763 107 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.896 0.857 0.902 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

258/400 8.97G 0.1425 0.2718 0.877 68 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.50it/s]

all 133 917 0.923 0.844 0.904 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

259/400 9.17G 0.14 0.2695 0.8702 147 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.901 0.851 0.903 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

260/400 8.88G 0.1425 0.2708 0.8758 83 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.902 0.855 0.905 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

261/400 8.89G 0.1428 0.2717 0.8781 79 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.915 0.845 0.905 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

262/400 8.88G 0.1403 0.27 0.8755 80 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.902 0.852 0.901 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

263/400 8.92G 0.1462 0.2741 0.8766 74 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.919 0.852 0.905 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

264/400 8.76G 0.1459 0.2748 0.8718 109 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.906 0.858 0.908 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

265/400 8.98G 0.1407 0.2712 0.871 106 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.891 0.878 0.905 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

266/400 8.79G 0.142 0.2747 0.8739 142 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.896 0.877 0.907 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

267/400 8.85G 0.1381 0.2685 0.8692 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.897 0.87 0.907 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

268/400 8.97G 0.1385 0.2663 0.8679 127 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.907 0.864 0.908 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

269/400 8.88G 0.1353 0.2631 0.866 86 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.921 0.856 0.91 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

270/400 9.05G 0.1352 0.2647 0.8711 127 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.911 0.865 0.907 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

271/400 8.71G 0.1475 0.275 0.8761 63 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.923 0.844 0.906 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

272/400 8.85G 0.1468 0.274 0.8764 62 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.912 0.851 0.905 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

273/400 9.09G 0.1402 0.2691 0.8741 99 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.50it/s]

all 133 917 0.901 0.863 0.907 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

274/400 8.85G 0.1471 0.2745 0.8768 120 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.899 0.869 0.909 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

275/400 8.9G 0.1385 0.2672 0.8739 91 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.919 0.86 0.913 0.573

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

276/400 9.57G 0.1435 0.2702 0.8732 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.894 0.862 0.904 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

277/400 9.22G 0.1419 0.269 0.8739 157 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.894 0.866 0.904 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

278/400 9.15G 0.1462 0.2683 0.8753 87 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.912 0.864 0.904 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

279/400 8.74G 0.138 0.2638 0.8705 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.905 0.869 0.909 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

280/400 8.58G 0.1454 0.2733 0.8727 99 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.915 0.856 0.906 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

281/400 8.95G 0.14 0.2664 0.8747 107 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.907 0.849 0.902 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

282/400 8.85G 0.1425 0.2689 0.8742 83 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.901 0.858 0.906 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

283/400 8.55G 0.1384 0.2681 0.8743 85 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.925 0.834 0.899 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

284/400 8.77G 0.1445 0.2686 0.8755 57 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.91 0.851 0.9 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

285/400 8.8G 0.1402 0.2655 0.8798 63 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.908 0.857 0.904 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

286/400 8.97G 0.137 0.2624 0.8742 118 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.895 0.865 0.905 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

287/400 8.86G 0.149 0.274 0.8746 117 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.892 0.864 0.903 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

288/400 8.49G 0.1357 0.2616 0.87 124 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.91 0.853 0.907 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

289/400 8.99G 0.1403 0.2649 0.8759 109 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.906 0.854 0.904 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

290/400 8.71G 0.1363 0.2624 0.8707 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.903 0.848 0.904 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

291/400 8.76G 0.1375 0.2627 0.8659 71 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.897 0.853 0.902 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

292/400 8.87G 0.139 0.262 0.8732 78 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.901 0.863 0.906 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

293/400 9.07G 0.1408 0.265 0.8707 91 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.905 0.865 0.901 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

294/400 8.87G 0.1376 0.2612 0.8734 140 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.899 0.87 0.908 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

295/400 8.8G 0.1388 0.2626 0.8706 94 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.912 0.854 0.908 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

296/400 9.03G 0.1366 0.2594 0.8669 164 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.912 0.841 0.907 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

297/400 8.93G 0.1378 0.2615 0.8715 102 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.903 0.862 0.909 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

298/400 8.92G 0.1415 0.265 0.8716 70 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.913 0.854 0.907 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

299/400 8.96G 0.1339 0.257 0.87 131 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.896 0.863 0.903 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

300/400 8.66G 0.1372 0.2648 0.8694 92 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.25it/s]

all 133 917 0.899 0.849 0.902 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

301/400 9.2G 0.1451 0.2681 0.8717 108 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.919 0.84 0.901 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

302/400 8.99G 0.1422 0.2621 0.8691 131 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.912 0.846 0.906 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

303/400 8.9G 0.1412 0.2601 0.8729 70 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.905 0.848 0.905 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

304/400 9.15G 0.1357 0.2602 0.8695 91 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.915 0.843 0.907 0.573

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

305/400 8.81G 0.1396 0.2631 0.8698 120 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.921 0.84 0.907 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

306/400 9.16G 0.133 0.2566 0.8656 171 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.922 0.834 0.905 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

307/400 8.84G 0.1349 0.2571 0.8681 79 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.922 0.828 0.905 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

308/400 8.85G 0.1377 0.2582 0.8729 78 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.916 0.837 0.902 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

309/400 8.76G 0.1311 0.2563 0.8673 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.888 0.876 0.906 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

310/400 8.76G 0.141 0.2623 0.8693 79 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.908 0.856 0.907 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

311/400 8.93G 0.1394 0.2589 0.8692 93 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.923 0.847 0.906 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

312/400 8.81G 0.1364 0.26 0.8675 113 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.33it/s]

all 133 917 0.902 0.865 0.904 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

313/400 9.21G 0.1405 0.2628 0.8672 96 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.904 0.858 0.902 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

314/400 8.89G 0.1298 0.2535 0.8655 120 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.888 0.866 0.903 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

315/400 9.15G 0.1356 0.2578 0.8702 95 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.895 0.869 0.905 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

316/400 8.83G 0.1372 0.2571 0.8669 116 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.918 0.847 0.908 0.569

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

317/400 8.86G 0.1337 0.2552 0.8668 106 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.889 0.872 0.909 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

318/400 8.88G 0.1381 0.2591 0.8676 71 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.914 0.852 0.911 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

319/400 8.86G 0.1351 0.2576 0.8665 70 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.89 0.871 0.909 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

320/400 8.67G 0.1298 0.251 0.8644 113 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.891 0.869 0.907 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

321/400 8.82G 0.1314 0.2535 0.8654 98 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.891 0.866 0.903 0.573

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

322/400 8.96G 0.1302 0.2527 0.8635 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.924 0.838 0.905 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

323/400 8.83G 0.1368 0.2555 0.8702 103 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.895 0.871 0.909 0.579

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

324/400 8.84G 0.133 0.2538 0.8654 164 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.907 0.855 0.911 0.579

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

325/400 9.02G 0.1351 0.2557 0.8631 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.91 0.854 0.911 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

326/400 9.06G 0.1347 0.2545 0.8639 125 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.914 0.847 0.91 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

327/400 9.1G 0.1302 0.2517 0.8607 91 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.915 0.841 0.907 0.581

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

328/400 8.89G 0.1326 0.2523 0.8624 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.925 0.835 0.907 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

329/400 8.83G 0.1305 0.2519 0.8645 94 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.895 0.857 0.909 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

330/400 8.65G 0.1329 0.2525 0.8655 115 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.901 0.859 0.91 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

331/400 8.95G 0.1385 0.2571 0.8661 100 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.9 0.855 0.906 0.574

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

332/400 9.1G 0.136 0.2545 0.8648 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.913 0.851 0.907 0.571

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

333/400 8.92G 0.1237 0.2424 0.86 86 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.909 0.855 0.902 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

334/400 8.8G 0.1334 0.252 0.8642 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.48it/s]

all 133 917 0.922 0.846 0.903 0.57

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

335/400 8.86G 0.132 0.253 0.8613 110 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.912 0.852 0.906 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

336/400 8.82G 0.1338 0.2534 0.8653 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.912 0.849 0.906 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

337/400 9.42G 0.1347 0.253 0.8662 69 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.887 0.871 0.907 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

338/400 9.16G 0.1333 0.2511 0.8628 122 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.894 0.873 0.91 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

339/400 8.82G 0.1338 0.2496 0.8658 224 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.907 0.863 0.911 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

340/400 8.85G 0.1328 0.2507 0.8628 97 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.912 0.856 0.908 0.577

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

341/400 8.8G 0.1274 0.2436 0.8572 105 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.915 0.848 0.907 0.574

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

342/400 8.84G 0.1292 0.2477 0.8643 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.913 0.848 0.907 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

343/400 8.87G 0.1324 0.2478 0.8618 106 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.91 0.85 0.906 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

344/400 8.8G 0.1332 0.2494 0.8639 67 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.91 0.855 0.91 0.574

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

345/400 8.75G 0.1293 0.2488 0.8614 119 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.904 0.856 0.909 0.573

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

346/400 8.74G 0.1264 0.2458 0.8606 74 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.905 0.859 0.908 0.573

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

347/400 8.89G 0.1308 0.2507 0.8621 162 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.911 0.856 0.908 0.572

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

348/400 8.85G 0.1332 0.2529 0.8615 109 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.915 0.859 0.911 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

349/400 8.68G 0.1313 0.2469 0.8606 88 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.50it/s]

all 133 917 0.913 0.858 0.911 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

350/400 8.82G 0.1274 0.2446 0.8622 61 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.35it/s]

all 133 917 0.912 0.859 0.911 0.577

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

351/400 9.14G 0.1258 0.2437 0.8575 169 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.47it/s]

all 133 917 0.906 0.867 0.911 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

352/400 8.84G 0.1276 0.2444 0.8627 111 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.924 0.854 0.913 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

353/400 8.84G 0.1244 0.2429 0.8634 82 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.916 0.858 0.912 0.577

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

354/400 9.23G 0.1264 0.243 0.8562 92 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.911 0.862 0.912 0.577

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

355/400 8.95G 0.1319 0.248 0.8583 83 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.918 0.857 0.913 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

356/400 9.04G 0.1265 0.2455 0.8594 85 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.912 0.862 0.915 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

357/400 8.77G 0.1275 0.2451 0.8581 122 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.911 0.864 0.914 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

358/400 9.33G 0.1265 0.2437 0.8587 150 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.909 0.866 0.914 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

359/400 8.84G 0.1257 0.2433 0.859 87 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.34it/s]

all 133 917 0.914 0.862 0.915 0.582

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

360/400 9.16G 0.128 0.2455 0.8539 63 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.909 0.867 0.912 0.581

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

361/400 8.85G 0.125 0.2445 0.8539 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.907 0.867 0.912 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

362/400 8.88G 0.1293 0.2464 0.8579 114 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.911 0.857 0.91 0.579

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

363/400 8.7G 0.129 0.2471 0.8623 111 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.913 0.86 0.912 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

364/400 8.87G 0.13 0.2463 0.8569 173 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.911 0.861 0.911 0.579

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

365/400 8.77G 0.1261 0.2431 0.8606 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.909 0.863 0.911 0.577

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

366/400 9G 0.1238 0.2408 0.8541 138 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.41it/s]

all 133 917 0.912 0.861 0.912 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

367/400 8.93G 0.1289 0.2467 0.8608 93 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.911 0.865 0.913 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

368/400 8.99G 0.129 0.247 0.8593 54 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.913 0.864 0.913 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

369/400 8.93G 0.1243 0.2415 0.8594 89 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.91 0.873 0.912 0.574

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

370/400 8.83G 0.1247 0.2398 0.8593 132 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.916 0.868 0.912 0.574

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

371/400 8.92G 0.1252 0.2413 0.8586 175 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.91 0.87 0.911 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

372/400 8.86G 0.1256 0.2385 0.859 90 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.913 0.864 0.912 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

373/400 8.86G 0.1276 0.2411 0.8574 76 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.46it/s]

all 133 917 0.911 0.865 0.911 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

374/400 8.9G 0.1285 0.2454 0.857 88 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.913 0.864 0.91 0.574

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

375/400 8.75G 0.1261 0.2381 0.8564 114 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.91 0.863 0.909 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

376/400 8.92G 0.1203 0.2374 0.8546 127 640: 100% 34/34 [00:22<00:00, 1.48it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.899 0.869 0.909 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

377/400 8.67G 0.1265 0.2412 0.8583 147 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.895 0.876 0.908 0.576

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

378/400 8.93G 0.125 0.2419 0.8561 144 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.913 0.86 0.909 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

379/400 8.59G 0.1214 0.2364 0.8535 98 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.914 0.862 0.909 0.577

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

380/400 8.86G 0.1185 0.2366 0.8575 119 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.32it/s]

all 133 917 0.914 0.862 0.91 0.579

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

381/400 8.78G 0.1208 0.2354 0.8605 57 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.915 0.861 0.91 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

382/400 8.77G 0.1232 0.2381 0.8563 125 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.43it/s]

all 133 917 0.917 0.861 0.912 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

383/400 8.73G 0.1246 0.2381 0.8578 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.92 0.858 0.912 0.58

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

384/400 8.83G 0.1233 0.2359 0.855 118 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.916 0.857 0.911 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

385/400 8.73G 0.1281 0.2397 0.8565 101 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.917 0.861 0.913 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

386/400 8.81G 0.1267 0.2369 0.8592 102 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.37it/s]

all 133 917 0.916 0.861 0.912 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

387/400 9.04G 0.1262 0.2405 0.8552 111 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.36it/s]

all 133 917 0.92 0.86 0.912 0.575

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

388/400 8.83G 0.1218 0.2353 0.8549 80 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.92 0.858 0.912 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

389/400 9.24G 0.119 0.234 0.8528 72 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.40it/s]

all 133 917 0.924 0.856 0.913 0.578

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

390/400 9G 0.1236 0.2385 0.8543 66 640: 100% 34/34 [00:22<00:00, 1.49it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.918 0.859 0.914 0.578

Closing dataloader mosaic

albumentations: Blur(p=0.01, blur\_limit=(3, 7)), MedianBlur(p=0.01, blur\_limit=(3, 7)), ToGray(p=0.01, num\_output\_channels=3, method='weighted\_average'), CLAHE(p=0.01, clip\_limit=(1.0, 4.0), tile\_grid\_size=(8, 8))

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

391/400 8.84G 0.1163 0.2292 0.831 54 640: 100% 34/34 [00:24<00:00, 1.37it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.922 0.854 0.913 0.573

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

392/400 8.98G 0.1001 0.2114 0.823 74 640: 100% 34/34 [00:22<00:00, 1.50it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.928 0.843 0.91 0.568

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

393/400 8.94G 0.09658 0.2071 0.8216 89 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.42it/s]

all 133 917 0.925 0.85 0.91 0.566

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

394/400 8.98G 0.09463 0.205 0.8163 59 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.925 0.852 0.909 0.563

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

395/400 8.52G 0.09139 0.2013 0.817 55 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.45it/s]

all 133 917 0.923 0.85 0.907 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

396/400 8.96G 0.09408 0.203 0.8151 41 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.49it/s]

all 133 917 0.923 0.851 0.907 0.562

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

397/400 8.93G 0.09399 0.2012 0.8163 32 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.39it/s]

all 133 917 0.923 0.851 0.907 0.564

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

398/400 8.82G 0.08964 0.1981 0.8165 58 640: 100% 34/34 [00:22<00:00, 1.50it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.44it/s]

all 133 917 0.905 0.871 0.906 0.565

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

399/400 8.98G 0.09099 0.1988 0.8168 39 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.30it/s]

all 133 917 0.908 0.867 0.908 0.567

Epoch GPU\_mem box\_loss cls\_loss dfl\_loss Instances Size

400/400 8.84G 0.08744 0.1972 0.8155 53 640: 100% 34/34 [00:22<00:00, 1.51it/s]

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 2.38it/s]

all 133 917 0.922 0.857 0.909 0.567

400 epochs completed in 2.803 hours.

Optimizer stripped from /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train/weights/last.pt, 26.9MB

Optimizer stripped from /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train/weights/best.pt, 26.9MB

Validating /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train/weights/best.pt...

Ultralytics 8.3.49 🚀 Python-3.10.12 torch-2.5.1+cu121 CUDA:0 (Tesla T4, 15102MiB)

Model summary (fused): 214 layers, 13,282,114 parameters, 0 gradients, 36.3 GFLOPs

Class Images Instances Box(P R mAP50 mAP50-95): 100% 3/3 [00:01<00:00, 1.97it/s]

all 133 917 0.914 0.863 0.915 0.582

0 133 387 0.941 0.865 0.926 0.589

1 61 171 0.871 0.789 0.868 0.56

2 25 49 0.977 0.855 0.93 0.571

3 29 48 0.816 0.917 0.918 0.591

4 53 99 0.959 0.919 0.961 0.667

5 70 163 0.919 0.833 0.885 0.514

Speed: 0.2ms preprocess, 5.6ms inference, 0.0ms loss, 0.8ms postprocess per image

Results saved to /content/gdrive/MyDrive/Train\_Yolov8/Ketqua\_ppe/CHV\_phase2/train