

drowsiness-detection

July 11, 2023

```
[70]: #install and import dependencies  
!pip install torch torchvision torchaudio --index-url https://download.pytorch.  
      ↪org/whl/cu117
```

```
Looking in indexes: https://download.pytorch.org/whl/cu117  
Requirement already satisfied: torch in c:\users\kiit\anaconda3\lib\site-  
packages (2.0.1+cu117)  
Requirement already satisfied: torchvision in c:\users\kiit\anaconda3\lib\site-  
packages (0.15.2+cu117)  
Requirement already satisfied: torchaudio in c:\users\kiit\anaconda3\lib\site-  
packages (2.0.2+cu117)  
Requirement already satisfied: filelock in c:\users\kiit\anaconda3\lib\site-  
packages (from torch) (3.6.0)  
Requirement already satisfied: jinja2 in c:\users\kiit\anaconda3\lib\site-  
packages (from torch) (2.11.3)  
Requirement already satisfied: typing-extensions in  
c:\users\kiit\anaconda3\lib\site-packages (from torch) (4.3.0)  
Requirement already satisfied: networkx in c:\users\kiit\anaconda3\lib\site-  
packages (from torch) (2.8.4)  
Requirement already satisfied: sympy in c:\users\kiit\anaconda3\lib\site-  
packages (from torch) (1.10.1)  
Requirement already satisfied: requests in c:\users\kiit\anaconda3\lib\site-  
packages (from torchvision) (2.28.1)  
Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in  
c:\users\kiit\anaconda3\lib\site-packages (from torchvision) (9.2.0)  
Requirement already satisfied: numpy in c:\users\kiit\anaconda3\lib\site-  
packages (from torchvision) (1.24.4)  
Requirement already satisfied: MarkupSafe>=0.23 in  
c:\users\kiit\anaconda3\lib\site-packages (from jinja2->torch) (2.0.1)  
Requirement already satisfied: urllib3<1.27,>=1.21.1 in  
c:\users\kiit\anaconda3\lib\site-packages (from requests->torchvision) (1.26.11)  
Requirement already satisfied: certifi>=2017.4.17 in  
c:\users\kiit\anaconda3\lib\site-packages (from requests->torchvision)  
(2022.12.7)  
Requirement already satisfied: idna<4,>=2.5 in c:\users\kiit\anaconda3\lib\site-  
packages (from requests->torchvision) (3.3)  
Requirement already satisfied: charset-normalizer<3,>=2 in  
c:\users\kiit\anaconda3\lib\site-packages (from requests->torchvision) (2.0.4)
```

Requirement already satisfied: mpmath>=0.19 in c:\users\kiit\anaconda3\lib\site-packages (from sympy->torch) (1.2.1)

[4]:

'git' is not recognized as an internal or external command,
operable program or batch file.

[1]:

```
import torch
from matplotlib import pyplot as plt
import numpy as np
import cv2
```

[3]:

```
#load Model
model = torch.hub.load('ultralytics/yolov5', 'yolov5s')
```

Downloading: "https://github.com/ultralytics/yolov5/zipball/master" to
C:\Users\KIIT/.cache\torch\hub\master.zip
YOLOv5 2023-7-8 Python-3.9.13 torch-2.0.1+cu117 CUDA:0 (GeForce MX330, 2048MiB)

Downloading
https://github.com/ultralytics/yolov5/releases/download/v7.0/yolov5s.pt to
yolov5s.pt...
100%|
| 14.1M/14.1M [00:01<00:00, 14.3MB/s]

Fusing layers...
YOLOv5s summary: 213 layers, 7225885 parameters, 0 gradients
Adding AutoShape...

[6]:

```
model
```

[6]:

```
AutoShape(
  (model): DetectMultiBackend(
    (model): DetectionModel(
      (model): Sequential(
        (0): Conv(
          (conv): Conv2d(3, 32, kernel_size=(6, 6), stride=(2, 2), padding=(2,
2))
          (act): SiLU(inplace=True)
        )
        (1): Conv(
          (conv): Conv2d(32, 64, kernel_size=(3, 3), stride=(2, 2), padding=(1,
1))
          (act): SiLU(inplace=True)
        )
        (2): C3(
          (cv1): Conv(
```

```

        (conv): Conv2d(64, 32, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
    (cv2): Conv(
        (conv): Conv2d(64, 32, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
    (cv3): Conv(
        (conv): Conv2d(64, 64, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
    (m): Sequential(
      (0): Bottleneck(
        (cv1): Conv(
          (conv): Conv2d(32, 32, kernel_size=(1, 1), stride=(1, 1))
          (act): SiLU(inplace=True)
        )
        (cv2): Conv(
          (conv): Conv2d(32, 32, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
          (act): SiLU(inplace=True)
        )
      )
    )
  )
  (3): Conv(
    (conv): Conv2d(64, 128, kernel_size=(3, 3), stride=(2, 2), padding=(1,
1))
    (act): SiLU(inplace=True)
  )
  (4): C3(
    (cv1): Conv(
      (conv): Conv2d(128, 64, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(128, 64, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv3): Conv(
      (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (m): Sequential(
      (0): Bottleneck(
        (cv1): Conv(
          (conv): Conv2d(64, 64, kernel_size=(1, 1), stride=(1, 1))

```

```

        (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
      (act): SiLU(inplace=True)
    )
  )
  (1): Bottleneck(
    (cv1): Conv(
      (conv): Conv2d(64, 64, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
      (act): SiLU(inplace=True)
    )
  )
)
(5): Conv(
  (conv): Conv2d(128, 256, kernel_size=(3, 3), stride=(2, 2),
padding=(1, 1))
  (act): SiLU(inplace=True)
)
(6): C3(
  (cv1): Conv(
    (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (cv2): Conv(
    (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (cv3): Conv(
    (conv): Conv2d(256, 256, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
)
(m): Sequential(
  (0): Bottleneck(
    (cv1): Conv(
      (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1),

```

```

padding=(1, 1))
    (act): SiLU(inplace=True)
    )
    )
    (1): Bottleneck(
        (cv1): Conv(
            (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
            (act): SiLU(inplace=True)
        )
        (cv2): Conv(
            (conv): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
            (act): SiLU(inplace=True)
        )
    )
    (2): Bottleneck(
        (cv1): Conv(
            (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
            (act): SiLU(inplace=True)
        )
        (cv2): Conv(
            (conv): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
            (act): SiLU(inplace=True)
        )
    )
    )
    )
    (7): Conv(
        (conv): Conv2d(256, 512, kernel_size=(3, 3), stride=(2, 2),
padding=(1, 1))
        (act): SiLU(inplace=True)
    )
    (8): C3(
        (cv1): Conv(
            (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1))
            (act): SiLU(inplace=True)
        )
        (cv2): Conv(
            (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1))
            (act): SiLU(inplace=True)
        )
        (cv3): Conv(
            (conv): Conv2d(512, 512, kernel_size=(1, 1), stride=(1, 1))
            (act): SiLU(inplace=True)
        )
    )
    (m): Sequential(

```

```

        (0): Bottleneck(
          (cv1): Conv(
            (conv): Conv2d(256, 256, kernel_size=(1, 1), stride=(1, 1))
            (act): SiLU(inplace=True)
          )
          (cv2): Conv(
            (conv): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
            (act): SiLU(inplace=True)
          )
        )
      )
    )
  (9): SPPF(
    (cv1): Conv(
      (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(1024, 512, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (m): MaxPool2d(kernel_size=5, stride=1, padding=2, dilation=1,
ceil_mode=False)
  )
  (10): Conv(
    (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (11): Upsample(scale_factor=2.0, mode='nearest')
  (12): Concat()
  (13): C3(
    (cv1): Conv(
      (conv): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv3): Conv(
      (conv): Conv2d(256, 256, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (m): Sequential(
      (0): Bottleneck(
        (cv1): Conv(

```

```

        (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
    (cv2): Conv(
        (conv): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
        (act): SiLU(inplace=True)
    )
)
)
(14): Conv(
    (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
)
(15): Upsample(scale_factor=2.0, mode='nearest')
(16): Concat()
(17): C3(
    (cv1): Conv(
        (conv): Conv2d(256, 64, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
    (cv2): Conv(
        (conv): Conv2d(256, 64, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
    (cv3): Conv(
        (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
    )
)
(m): Sequential(
  (0): Bottleneck(
    (cv1): Conv(
      (conv): Conv2d(64, 64, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
      (act): SiLU(inplace=True)
    )
  )
)
)
(18): Conv(
    (conv): Conv2d(128, 128, kernel_size=(3, 3), stride=(2, 2),
padding=(1, 1))

```

```

        (act): SiLU(inplace=True)
    )
(19): Concat()
(20): C3(
  (cv1): Conv(
    (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (cv2): Conv(
    (conv): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (cv3): Conv(
    (conv): Conv2d(256, 256, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (m): Sequential(
    (0): Bottleneck(
      (cv1): Conv(
        (conv): Conv2d(128, 128, kernel_size=(1, 1), stride=(1, 1))
        (act): SiLU(inplace=True)
      )
      (cv2): Conv(
        (conv): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
        (act): SiLU(inplace=True)
      )
    )
  )
)
(21): Conv(
  (conv): Conv2d(256, 256, kernel_size=(3, 3), stride=(2, 2),
padding=(1, 1))
  (act): SiLU(inplace=True)
)
(22): Concat()
(23): C3(
  (cv1): Conv(
    (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (cv2): Conv(
    (conv): Conv2d(512, 256, kernel_size=(1, 1), stride=(1, 1))
    (act): SiLU(inplace=True)
  )
  (cv3): Conv(
    (conv): Conv2d(512, 512, kernel_size=(1, 1), stride=(1, 1))

```



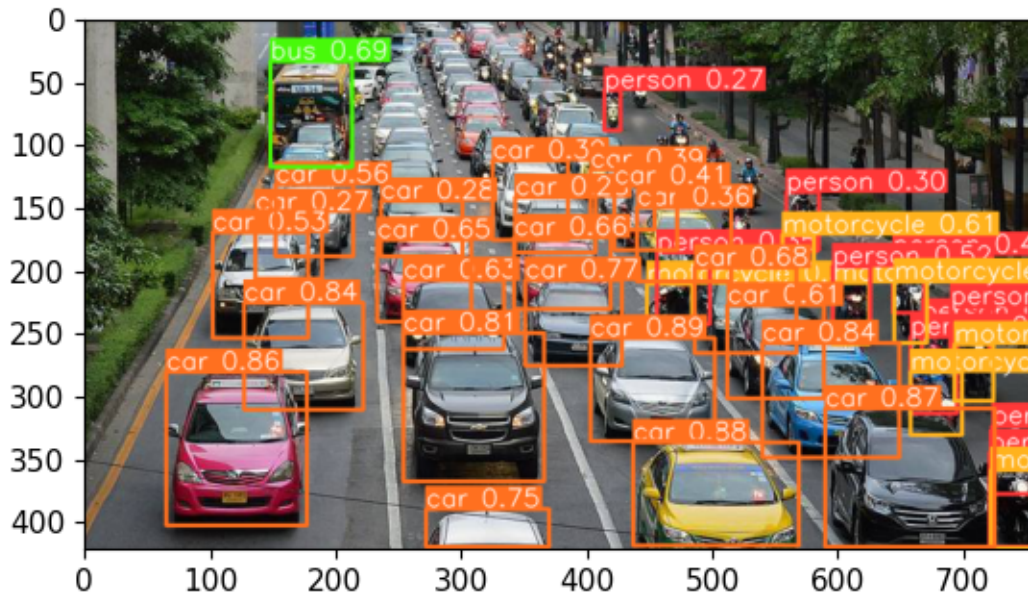
```
(act): SiLU(inplace=True)
)
(m): Sequential(
  (0): Bottleneck(
    (cv1): Conv(
      (conv): Conv2d(256, 256, kernel_size=(1, 1), stride=(1, 1))
      (act): SiLU(inplace=True)
    )
    (cv2): Conv(
      (conv): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1),
padding=(1, 1))
      (act): SiLU(inplace=True)
    )
  )
)
)
)
(24): Detect(
  (m): ModuleList(
    (0): Conv2d(128, 255, kernel_size=(1, 1), stride=(1, 1))
    (1): Conv2d(256, 255, kernel_size=(1, 1), stride=(1, 1))
    (2): Conv2d(512, 255, kernel_size=(1, 1), stride=(1, 1))
  )
)
)
)
)
)
```

```
[18]: img = 'https://images.indianexpress.com/2016/08/traffic-jam-7591.jpg'
```

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

```
image 1/1: 422x759 10 persons, 23 cars, 7 motorcycles, 1 bus
Speed: 7230.9ms pre-process, 31.4ms inference, 0.0ms NMS per image at shape (1,
3, 384, 640)
```

```
[20]: #to show it in the notebook
      %matplotlib inline
      #imshow displays the img on screen
      plt.imshow(np.squeeze(results.render()))
      plt.show()
```



```
[16]: results.render()
```

```
[16]: [array([[72, 48, 38],
               [74, 50, 40],
               [73, 51, 40],
               ...,
               [56, 21, 25],
               [54, 20, 21],
               [51, 15, 17]]],

        [[71, 47, 37],
         [71, 47, 37],
         [70, 48, 37],
         ...,
         [55, 20, 24],
         [52, 16, 18],
         [47, 11, 13]]],

        [[75, 51, 41],
         [72, 50, 39],
         [70, 48, 37],
         ...,
         [56, 20, 24],
         [52, 16, 20],
         [48, 12, 16]]],

        ...,
```

```

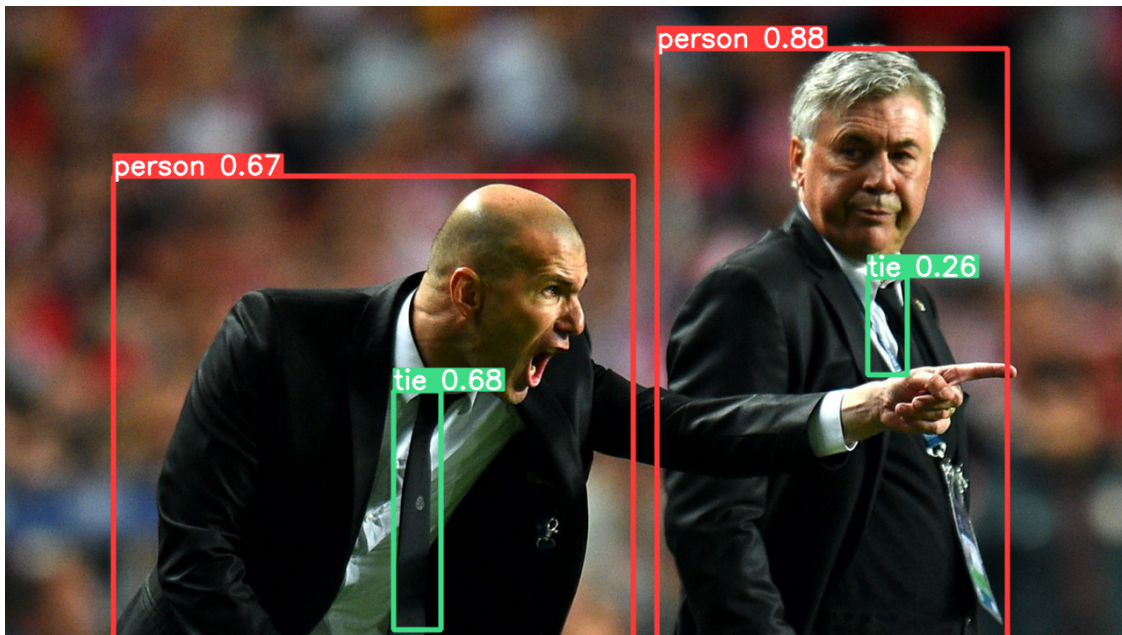
[[40, 43, 48],
 [41, 44, 49],
 [40, 43, 48],
 ...,
 [35, 49, 49],
 [35, 49, 49],
 [36, 50, 50]],

[[39, 42, 47],
 [39, 42, 49],
 [39, 42, 49],
 ...,
 [35, 49, 50],
 [35, 49, 50],
 [36, 50, 51]],

[[38, 41, 48],
 [38, 41, 48],
 [38, 41, 48],
 ...,
 [35, 49, 50],
 [35, 49, 50],
 [36, 50, 51]]], dtype=uint8)]

```

```
[17]: results.show()
```



```
[23]: #real time detections
#if you want ot use any other video you can add the path in videocapture
cap = cv2.VideoCapture(0)
while cap.isOpened():
    ret,frame = cap.read()
    #make detections
    results = model(frame)

    cv2.imshow('Detection',np.squeeze(results.render()))
    if cv2.waitKey(10) & 0xFF == ord('q'):
        break
cap.release()
cv2.destroyAllWindows()
```

```
[24]: #Train from Scratch
import uuid#unique identifier
import os
import time
```

```
[25]: IMAGES_PATH = os.path.join('data','images')
labels = ['awake','drowsy']
number_imgs = 20
```

```
[29]: cap = cv2.VideoCapture(0)
for label in labels:
    print('Collecting images for {}'.format(label))
    time.sleep(5)
    #loop through images
    for img_num in range(number_imgs):
        print('collecting images for {},image numvber{}'.format(label,img_num))
        ret,frame = cap.read()
        imgname = os.path.join(IMAGES_PATH,label+'.'+str(uuid.uuid1())+'.jpg')
        cv2.imwrite(imgname,frame)
        cv2.imshow('Image Collection',frame)
        time.sleep(2)
        if cv2.waitKey(10) & 0xFF == ord('q'):
            break
cap.release()
cv2.destroyAllWindows()
```

```
Collecting images for awake
collecting images for awake,image numvber0
collecting images for awake,image numvber1
collecting images for awake,image numvber2
collecting images for awake,image numvber3
collecting images for awake,image numvber4
collecting images for awake,image numvber5
```

```

collecting images for awake,image numvber6
collecting images for awake,image numvber7
collecting images for awake,image numvber8
collecting images for awake,image numvber9
collecting images for awake,image numvber10
collecting images for awake,image numvber11
collecting images for awake,image numvber12
collecting images for awake,image numvber13
collecting images for awake,image numvber14
collecting images for awake,image numvber15
collecting images for awake,image numvber16
collecting images for awake,image numvber17
collecting images for awake,image numvber18
collecting images for awake,image numvber19
Collecting images for drowsy
collecting images for drowsy,image numvber0
collecting images for drowsy,image numvber1
collecting images for drowsy,image numvber2
collecting images for drowsy,image numvber3
collecting images for drowsy,image numvber4
collecting images for drowsy,image numvber5
collecting images for drowsy,image numvber6
collecting images for drowsy,image numvber7
collecting images for drowsy,image numvber8
collecting images for drowsy,image numvber9
collecting images for drowsy,image numvber10
collecting images for drowsy,image numvber11
collecting images for drowsy,image numvber12
collecting images for drowsy,image numvber13
collecting images for drowsy,image numvber14
collecting images for drowsy,image numvber15
collecting images for drowsy,image numvber16
collecting images for drowsy,image numvber17
collecting images for drowsy,image numvber18
collecting images for drowsy,image numvber19

```

```
[30]: !git clone https://github.com/heartexlabs/labelImg
```

Cloning into 'labelImg'...

```
[31]: !pip install pyqt5 lxml --upgrade
!cd labelImg && pyrcc5 -o libs/resources.py resources.qrc
```

Collecting pyqt5

Downloading PyQt5-5.15.9-cp37-abi3-win_amd64.whl (6.8 MB)

----- 6.8/6.8 MB 10.9 MB/s eta 0:00:00

Requirement already satisfied: lxml in c:\users\kiit\anaconda3\lib\site-packages (4.9.1)

```

Collecting lxml
  Downloading lxml-4.9.3-cp39-cp39-win_amd64.whl (3.9 MB)
  ----- 3.9/3.9 MB 11.3 MB/s eta 0:00:00
Collecting PyQt5-sip<13,>=12.11
  Downloading PyQt5_sip-12.12.1-cp39-cp39-win_amd64.whl (78 kB)
  ----- 78.4/78.4 kB ? eta 0:00:00
Collecting PyQt5-Qt5>=5.15.2
  Downloading PyQt5_Qt5-5.15.2-py3-none-win_amd64.whl (50.1 MB)
  ----- 50.1/50.1 MB 15.2 MB/s eta 0:00:00
Installing collected packages: PyQt5-Qt5, PyQt5-sip, lxml, pyqt5
  Attempting uninstall: lxml
    Found existing installation: lxml 4.9.1
    Uninstalling lxml-4.9.1:
      Successfully uninstalled lxml-4.9.1
Successfully installed PyQt5-Qt5-5.15.2 PyQt5-sip-12.12.1 lxml-4.9.3
pyqt5-5.15.9

ERROR: pip's dependency resolver does not currently take into account all the
packages that are installed. This behaviour is the source of the following
dependency conflicts.
spyder 5.2.2 requires pyqtwebengine<5.13, which is not installed.
spyder 5.2.2 requires pyqt5<5.13, but you have pyqt5 5.15.9 which is
incompatible.

```

[33]: `!pip install PyQtWebEngine`

```

Collecting PyQtWebEngine
  Downloading PyQtWebEngine-5.15.6-cp37-abi3-win_amd64.whl (182 kB)
  ----- 182.7/182.7 kB 1.8 MB/s eta 0:00:00
Requirement already satisfied: PyQt5-sip<13,>=12.11 in
c:\users\kiit\anaconda3\lib\site-packages (from PyQtWebEngine) (12.12.1)
Requirement already satisfied: PyQt5>=5.15.4 in
c:\users\kiit\anaconda3\lib\site-packages (from PyQtWebEngine) (5.15.9)
Collecting PyQtWebEngine-Qt5>=5.15.0
  Downloading PyQtWebEngine_Qt5-5.15.2-py3-none-win_amd64.whl (60.0 MB)
  ----- 60.0/60.0 MB 11.7 MB/s eta 0:00:00
Requirement already satisfied: PyQt5-Qt5>=5.15.2 in
c:\users\kiit\anaconda3\lib\site-packages (from PyQt5>=5.15.4->PyQtWebEngine)
(5.15.2)
Installing collected packages: PyQtWebEngine-Qt5, PyQtWebEngine
Successfully installed PyQtWebEngine-5.15.6 PyQtWebEngine-Qt5-5.15.2

ERROR: pip's dependency resolver does not currently take into account all the
packages that are installed. This behaviour is the source of the following
dependency conflicts.
spyder 5.2.2 requires pyqt5<5.13, but you have pyqt5 5.15.9 which is
incompatible.
spyder 5.2.2 requires pyqtwebengine<5.13, but you have pyqtwebengine 5.15.6
which is incompatible.

```

```
[34]: !git clone yolov5 & pip install -r requirments.txt
```

```
fatal: repository 'yolov5' does not exist
ERROR: Could not open requirements file: [Errno 2] No such file or directory:
'requirments.txt'
```

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

```
fatal: destination path 'yolov5' already exists and is not an empty directory.
```

```
[40]: !cd yolov5 & pip install -r requirements.txt
```

```
Requirement already satisfied: gitpython>=3.1.30 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 5))
(3.1.31)
Requirement already satisfied: matplotlib>=3.3 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 6))
(3.5.2)
Requirement already satisfied: numpy>=1.18.5 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 7))
(1.24.3)
Requirement already satisfied: opencv-python>=4.1.1 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 8))
(4.8.0.74)
Requirement already satisfied: Pillow>=7.1.2 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 9))
(9.2.0)
Requirement already satisfied: psutil in c:\users\kiit\anaconda3\lib\site-
packages (from -r requirements.txt (line 10)) (5.9.0)
Requirement already satisfied: PyYAML>=5.3.1 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 11))
(6.0)
Requirement already satisfied: requests>=2.23.0 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 12))
(2.28.1)
Requirement already satisfied: scipy>=1.4.1 in c:\users\kiit\anaconda3\lib\site-
packages (from -r requirements.txt (line 13)) (1.9.1)
Requirement already satisfied: thop>=0.1.1 in c:\users\kiit\anaconda3\lib\site-
packages (from -r requirements.txt (line 14)) (0.1.1.post2209072238)
Requirement already satisfied: torch>=1.7.0 in c:\users\kiit\anaconda3\lib\site-
packages (from -r requirements.txt (line 15)) (2.0.1+cu117)
Requirement already satisfied: torchvision>=0.8.1 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 16))
(0.15.2+cu117)
Requirement already satisfied: tqdm>=4.64.0 in c:\users\kiit\anaconda3\lib\site-
packages (from -r requirements.txt (line 17)) (4.64.1)
Requirement already satisfied: ultralytics>=8.0.111 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 18))
```


(8.0.131)

Requirement already satisfied: pandas>=1.1.4 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 27))
(1.4.4)

Requirement already satisfied: seaborn>=0.11.0 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 28))
(0.11.2)

Requirement already satisfied: setuptools>=65.5.1 in
c:\users\kiit\anaconda3\lib\site-packages (from -r requirements.txt (line 42))
(68.0.0)

Requirement already satisfied: gitdb<5,>=4.0.1 in
c:\users\kiit\anaconda3\lib\site-packages (from gitpython>=3.1.30->-r
requirements.txt (line 5)) (4.0.10)

Requirement already satisfied: python-dateutil>=2.7 in
c:\users\kiit\anaconda3\lib\site-packages (from matplotlib>=3.3->-r
requirements.txt (line 6)) (2.8.2)

Requirement already satisfied: cycycler>=0.10 in c:\users\kiit\anaconda3\lib\site-
packages (from matplotlib>=3.3->-r requirements.txt (line 6)) (0.11.0)

Requirement already satisfied: pyparsing>=2.2.1 in
c:\users\kiit\anaconda3\lib\site-packages (from matplotlib>=3.3->-r
requirements.txt (line 6)) (3.0.9)

Requirement already satisfied: packaging>=20.0 in
c:\users\kiit\anaconda3\lib\site-packages (from matplotlib>=3.3->-r
requirements.txt (line 6)) (21.3)

Requirement already satisfied: kiwisolver>=1.0.1 in
c:\users\kiit\anaconda3\lib\site-packages (from matplotlib>=3.3->-r
requirements.txt (line 6)) (1.4.2)

Requirement already satisfied: fonttools>=4.22.0 in
c:\users\kiit\anaconda3\lib\site-packages (from matplotlib>=3.3->-r
requirements.txt (line 6)) (4.25.0)

Requirement already satisfied: idna<4,>=2.5 in c:\users\kiit\anaconda3\lib\site-
packages (from requests>=2.23.0->-r requirements.txt (line 12)) (3.3)

Requirement already satisfied: certifi>=2017.4.17 in
c:\users\kiit\anaconda3\lib\site-packages (from requests>=2.23.0->-r
requirements.txt (line 12)) (2022.12.7)

Requirement already satisfied: charset-normalizer<3,>=2 in
c:\users\kiit\anaconda3\lib\site-packages (from requests>=2.23.0->-r
requirements.txt (line 12)) (2.0.4)

Requirement already satisfied: urllib3<1.27,>=1.21.1 in
c:\users\kiit\anaconda3\lib\site-packages (from requests>=2.23.0->-r
requirements.txt (line 12)) (1.26.11)

Requirement already satisfied: typing-extensions in
c:\users\kiit\anaconda3\lib\site-packages (from torch>=1.7.0->-r
requirements.txt (line 15)) (4.3.0)

Requirement already satisfied: sympy in c:\users\kiit\anaconda3\lib\site-
packages (from torch>=1.7.0->-r requirements.txt (line 15)) (1.10.1)

Requirement already satisfied: networkx in c:\users\kiit\anaconda3\lib\site-
packages (from torch>=1.7.0->-r requirements.txt (line 15)) (2.8.4)

Requirement already satisfied: filelock in c:\users\kiit\anaconda3\lib\site-packages (from torch>=1.7.0->-r requirements.txt (line 15)) (3.6.0)
 Requirement already satisfied: jinja2 in c:\users\kiit\anaconda3\lib\site-packages (from torch>=1.7.0->-r requirements.txt (line 15)) (2.11.3)
 Requirement already satisfied: colorama in c:\users\kiit\anaconda3\lib\site-packages (from tqdm>=4.64.0->-r requirements.txt (line 17)) (0.4.5)
 Requirement already satisfied: pytz>=2020.1 in c:\users\kiit\anaconda3\lib\site-packages (from pandas>=1.1.4->-r requirements.txt (line 27)) (2022.1)
 Requirement already satisfied: smmap<6,>=3.0.1 in c:\users\kiit\anaconda3\lib\site-packages (from gitdb<5,>=4.0.1->gitpython>=3.1.30->-r requirements.txt (line 5)) (5.0.0)
 Requirement already satisfied: six>=1.5 in c:\users\kiit\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplotlib>=3.3->-r requirements.txt (line 6)) (1.16.0)
 Requirement already satisfied: MarkupSafe>=0.23 in c:\users\kiit\anaconda3\lib\site-packages (from jinja2->torch>=1.7.0->-r requirements.txt (line 15)) (2.0.1)
 Requirement already satisfied: mpmath>=0.19 in c:\users\kiit\anaconda3\lib\site-packages (from sympy->torch>=1.7.0->-r requirements.txt (line 15)) (1.2.1)

```
[49]: import torch
      torch.cuda.empty_cache()
```

```
[50]: t = torch.cuda.get_device_properties(0).total_memory
      r = torch.cuda.memory_reserved(0)
      a = torch.cuda.memory_allocated(0)
      f = r-a # free inside reserved
```

```
[55]: r
```

```
[55]: 71303168
```

```
[53]: !cd yolov5 && python train.py --img 320 --batch 5 --epochs 500 --data dataset.
      ↪yaml --weights yolov5s.pt --workers 2
```

train: weights=yolov5s.pt, cfg=, data=dataset.yaml,
 hyp=data\hyps\hyp.scratch-low.yaml, epochs=500, batch_size=5, imgsz=320,
 rect=False, resume=False, nosave=False, noval=False, noautoanchor=False,
 noplots=False, evolve=None, bucket=, cache=None, image_weights=False, device=,
 multi_scale=False, single_cls=False, optimizer=SGD, sync_bn=False, workers=2,
 project=runs\train, name=exp, exist_ok=False, quad=False, cos_lr=False,
 label_smoothing=0.0, patience=100, freeze=[0], save_period=-1, seed=0,
 local_rank=-1, entity=None, upload_dataset=False, bbox_interval=-1,
 artifact_alias=latest
github: up to date with <https://github.com/ultralytics/yolov5>
 YOLOv5 v7.0-193-g485da42 Python-3.9.13 torch-2.0.1+cu117 CUDA:0 (GeForce MX330, 2048MiB)

hyperparameters: lr0=0.01, lrf=0.01, momentum=0.937,
weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1,
box=0.05, cls=0.5, cls_pw=1.0, obj=1.0, obj_pw=1.0, iou_t=0.2, anchor_t=4.0,
fl_gamma=0.0, hsv_h=0.015, hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.1,
scale=0.5, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0,
mixup=0.0, copy_paste=0.0

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

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

Overriding model.yaml nc=80 with nc=17

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

```

18          -1  1    147712  models.common.Conv
[128, 128, 3, 2]
19          [-1, 14]  1          0  models.common.Concat          [1]
20          -1  1    296448  models.common.C3
[256, 256, 1, False]
21          -1  1    590336  models.common.Conv
[256, 256, 3, 2]
22          [-1, 10]  1          0  models.common.Concat          [1]
23          -1  1    1182720  models.common.C3
[512, 512, 1, False]
24          [17, 20, 23]  1    59334  models.yolo.Detect          [17,
[[10, 13, 16, 30, 33, 23], [30, 61, 62, 45, 59, 119], [116, 90, 156, 198, 373,
326]], [128, 256, 512]]
Model summary: 214 layers, 7065478 parameters, 7065478 gradients, 16.1 GFLOPs

```

Transferred 343/349 items from yolov5s.pt

AMP: checks passed

optimizer: SGD(lr=0.01) with parameter groups 57 weight(decay=0.0),
60 weight(decay=0.0005078125), 60 bias

train: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

train: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

val: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

val: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

AutoAnchor: 5.57 anchors/target, 1.000 Best Possible Recall (BPR).

Current anchors are a good fit to dataset

Plotting labels to runs\train\exp4\labels.jpg...

Image sizes 320 train, 320 val

Using 2 dataloader workers

Logging results to runs\train\exp4

Starting training for 500 epochs...

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/8 [00:00<?, ?it/s]					
	0/499	0.371G	0.1162	0.0166	0.07386	13	320:
0%		0/8 [00:00<?, ?it/s]					
	0/499	0.371G	0.1162	0.0166	0.07386	13	320:

12% #2	1/8 [00:02<00:18,	2.67s/it]				
0/499	0.384G	0.1141	0.01593	0.07682	11	320:
12% #2	1/8 [00:03<00:18,	2.67s/it]				
0/499	0.384G	0.1141	0.01593	0.07682	11	320:
25% ##5	2/8 [00:03<00:07,	1.31s/it]				
0/499	0.384G	0.1133	0.01657	0.07756	14	320:
25% ##5	2/8 [00:03<00:07,	1.31s/it]				
0/499	0.384G	0.1133	0.01657	0.07756	14	320:
38% ###7	3/8 [00:03<00:04,	1.15it/s]				
0/499	0.384G	0.1125	0.0157	0.07694	10	320:
38% ###7	3/8 [00:03<00:04,	1.15it/s]				
0/499	0.384G	0.1125	0.0157	0.07694	10	320:
50% #####	4/8 [00:03<00:02,	1.52it/s]				
0/499	0.384G	0.1123	0.01593	0.07745	13	320:
50% #####	4/8 [00:04<00:02,	1.52it/s]				
0/499	0.384G	0.1123	0.01593	0.07745	13	320:
62% #####2	5/8 [00:04<00:01,	1.90it/s]				
0/499	0.384G	0.1108	0.01588	0.07729	10	320:
62% #####2	5/8 [00:04<00:01,	1.90it/s]				
0/499	0.384G	0.1108	0.01588	0.07729	10	320:
75% #####5	6/8 [00:04<00:00,	2.22it/s]				
0/499	0.298G	0.1103	0.01537	0.07754	8	320:
75% #####5	6/8 [00:04<00:00,	2.22it/s]				
0/499	0.298G	0.1103	0.01537	0.07754	8	320:
88% #####7	7/8 [00:04<00:00,	2.46it/s]				
0/499	0.306G	0.1093	0.01555	0.07689	12	320:
88% #####7	7/8 [00:05<00:00,	2.46it/s]				
0/499	0.306G	0.1093	0.01555	0.07689	12	320:
100% #####	8/8 [00:05<00:00,	2.24it/s]				
0/499	0.306G	0.1093	0.01555	0.07689	12	320:
100% #####	8/8 [00:05<00:00,	1.55it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/4 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 25% ##5		1/4 [00:00<00:00,	6.00it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		2/4 [00:00<00:00,	6.61it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		3/4 [00:00<00:00,	6.02it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		4/4 [00:00<00:00,	6.09it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		4/4 [00:00<00:00,	6.12it/s]			
	all	40	40	0.002	0.075	0.00135

0.000209

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

0%		0/8 [00:00<?, ?it/s]					
	1/499	0.365G	0.1109	0.01678	0.07441	13	320:
0%		0/8 [00:00<?, ?it/s]					
	1/499	0.365G	0.1109	0.01678	0.07441	13	320:
12% #2		1/8 [00:00<00:04, 1.57it/s]					
	1/499	0.346G	0.1134	0.01473	0.07661	9	320:
12% #2		1/8 [00:01<00:04, 1.57it/s]					
	1/499	0.346G	0.1134	0.01473	0.07661	9	320:
25% ##5		2/8 [00:01<00:04, 1.47it/s]					
	1/499	0.35G	0.1123	0.01444	0.07682	11	320:
25% ##5		2/8 [00:02<00:04, 1.47it/s]					
	1/499	0.35G	0.1123	0.01444	0.07682	11	320:
38% ###7		3/8 [00:02<00:03, 1.48it/s]					
	1/499	0.346G	0.1105	0.01676	0.07495	16	320:
38% ###7		3/8 [00:02<00:03, 1.48it/s]					
	1/499	0.346G	0.1105	0.01676	0.07495	16	320:
50% #####		4/8 [00:02<00:02, 1.56it/s]					
	1/499	0.352G	0.1059	0.01559	0.07475	7	320:
50% #####		4/8 [00:03<00:02, 1.56it/s]					
	1/499	0.352G	0.1059	0.01559	0.07475	7	320:
62% #####2		5/8 [00:03<00:01, 1.58it/s]					
	1/499	0.348G	0.1038	0.01605	0.07412	12	320:
62% #####2		5/8 [00:03<00:01, 1.58it/s]					
	1/499	0.348G	0.1038	0.01605	0.07412	12	320:
75% #####5		6/8 [00:03<00:01, 1.67it/s]					
	1/499	0.352G	0.102	0.01544	0.07671	7	320:
75% #####5		6/8 [00:04<00:01, 1.67it/s]					
	1/499	0.352G	0.102	0.01544	0.07671	7	320:
88% #####7		7/8 [00:04<00:00, 1.72it/s]					
	1/499	0.35G	0.1005	0.01488	0.07903	6	320:
88% #####7		7/8 [00:04<00:00, 1.72it/s]					
	1/499	0.35G	0.1005	0.01488	0.07903	6	320:
100% #####		8/8 [00:04<00:00, 1.69it/s]					
	1/499	0.35G	0.1005	0.01488	0.07903	6	320:
100% #####		8/8 [00:04<00:00, 1.63it/s]					

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/4 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	25% ##5	1/4 [00:00<00:00, 3.59it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	2/4 [00:00<00:00, 3.92it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	3/4 [00:00<00:00, 3.86it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	4/4 [00:01<00:00, 3.59it/s]				
	Class	Images	Instances	P	R	mAP50

```

mAP50-95: 100%|#####| 4/4 [00:01<00:00, 3.67it/s]
              all          40          40      0.00553      0.2      0.00378
0.000567

```

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/8 [00:00<?, ?it/s]					
2/499	0.338G	0.0998	0.01419	0.08444	9	320:
0%	0/8 [00:00<?, ?it/s]					
2/499	0.338G	0.0998	0.01419	0.08444	9	320:
12% #2	1/8 [00:00<00:04, 1.47it/s]					
2/499	0.342G	0.09882	0.01769	0.07728	13	320:
12% #2	1/8 [00:01<00:04, 1.47it/s]					
2/499	0.342G	0.09882	0.01769	0.07728	13	320:
25% ##5	2/8 [00:01<00:04, 1.45it/s]					
2/499	0.34G	0.09845	0.0173	0.07707	11	320:
25% ##5	2/8 [00:02<00:04, 1.45it/s]					
2/499	0.34G	0.09845	0.0173	0.07707	11	320:
38% ###7	3/8 [00:02<00:03, 1.48it/s]					
2/499	0.342G	0.09902	0.01609	0.07609	8	320:
38% ###7	3/8 [00:02<00:03, 1.48it/s]					
2/499	0.342G	0.09902	0.01609	0.07609	8	320:
50% ####	4/8 [00:02<00:02, 1.57it/s]					
2/499	0.348G	0.09824	0.01639	0.0754	10	320:
50% ####	4/8 [00:03<00:02, 1.57it/s]					
2/499	0.348G	0.09824	0.01639	0.0754	10	320:
62% #####2	5/8 [00:03<00:01, 1.56it/s]					
2/499	0.346G	0.09786	0.01692	0.07537	13	320:
62% #####2	5/8 [00:03<00:01, 1.56it/s]					
2/499	0.346G	0.09786	0.01692	0.07537	13	320:
75% #####5	6/8 [00:03<00:01, 1.56it/s]					
2/499	0.342G	0.0956	0.01824	0.07477	13	320:
75% #####5	6/8 [00:04<00:01, 1.56it/s]					
2/499	0.342G	0.0956	0.01824	0.07477	13	320:
88% #####7	7/8 [00:04<00:00, 1.56it/s]					
2/499	0.348G	0.09595	0.01835	0.07427	12	320:
88% #####7	7/8 [00:05<00:00, 1.56it/s]					
2/499	0.348G	0.09595	0.01835	0.07427	12	320:
100% #####	8/8 [00:05<00:00, 1.58it/s]					
2/499	0.348G	0.09595	0.01835	0.07427	12	320:
100% #####	8/8 [00:05<00:00, 1.55it/s]					

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/4 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	25% ##5	1/4 [00:00<00:00, 5.54it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% ####	2/4 [00:00<00:00, 5.60it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	3/4	[00:00<00:00,	5.52it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	4/4	[00:00<00:00,	5.23it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	4/4	[00:00<00:00,	5.34it/s]		
	all	40	40	0.00559	0.225	0.00601
0.000973						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/8	[00:00<?, ?it/s]				
3/499	0.354G	0.0944	0.02383	0.06988	14	320:
0%	0/8	[00:00<?, ?it/s]				
3/499	0.354G	0.0944	0.02383	0.06988	14	320:
12% #2	1/8	[00:00<00:04,	1.67it/s]			
3/499	0.357G	0.0956	0.01999	0.06908	9	320:
12% #2	1/8	[00:01<00:04,	1.67it/s]			
3/499	0.357G	0.0956	0.01999	0.06908	9	320:
25% ##5	2/8	[00:01<00:03,	1.68it/s]			
3/499	0.35G	0.09451	0.02212	0.06815	14	320:
25% ##5	2/8	[00:01<00:03,	1.68it/s]			
3/499	0.35G	0.09451	0.02212	0.06815	14	320:
38% ###7	3/8	[00:01<00:02,	1.77it/s]			
3/499	0.392G	0.09182	0.02312	0.06746	13	320:
38% ###7	3/8	[00:02<00:02,	1.77it/s]			
3/499	0.392G	0.09182	0.02312	0.06746	13	320:
50% ####	4/8	[00:02<00:01,	2.15it/s]			
3/499	0.352G	0.09037	0.02338	0.06707	12	320:
50% ####	4/8	[00:02<00:01,	2.15it/s]			
3/499	0.352G	0.09037	0.02338	0.06707	12	320:
62% #####2	5/8	[00:02<00:01,	2.04it/s]			
3/499	0.392G	0.09027	0.0228	0.06821	11	320:
62% #####2	5/8	[00:02<00:01,	2.04it/s]			
3/499	0.392G	0.09027	0.0228	0.06821	11	320:
75% #####5	6/8	[00:02<00:00,	2.30it/s]			
3/499	0.392G	0.08555	0.02148	0.06502	7	320:
75% #####5	6/8	[00:03<00:00,	2.30it/s]			
3/499	0.392G	0.08555	0.02148	0.06502	7	320:
88% #####7	7/8	[00:03<00:00,	2.64it/s]			
3/499	0.338G	0.08455	0.02162	0.06554	11	320:
88% #####7	7/8	[00:04<00:00,	2.64it/s]			
3/499	0.338G	0.08455	0.02162	0.06554	11	320:
100% #####	8/8	[00:04<00:00,	1.83it/s]			
3/499	0.338G	0.08455	0.02162	0.06554	11	320:
100% #####	8/8	[00:04<00:00,	1.97it/s]			

Class	Images	Instances	P	R	mAP50
-------	--------	-----------	---	---	-------

```

mAP50-95: 0%|          | 0/4 [00:00<?, ?it/s]
          Class      Images  Instances      P          R          mAP50
mAP50-95: 25%|##5     | 1/4 [00:00<00:00, 5.73it/s]
          Class      Images  Instances      P          R          mAP50
mAP50-95: 50%|##### | 2/4 [00:00<00:00, 5.86it/s]
          Class      Images  Instances      P          R          mAP50
mAP50-95: 75%|#####5 | 3/4 [00:00<00:00, 5.83it/s]
          Class      Images  Instances      P          R          mAP50
mAP50-95: 100%|#####| 4/4 [00:00<00:00, 6.00it/s]
          Class      Images  Instances      P          R          mAP50
mAP50-95: 100%|#####| 4/4 [00:00<00:00, 5.93it/s]
          all         40      40      0.0071    0.375    0.0154
0.0022

```

```

Epoch      GPU_mem    box_loss    obj_loss    cls_loss    Instances      Size

0%|          | 0/8 [00:00<?, ?it/s]
0%|          | 0/8 [00:00<?, ?it/s]
Traceback (most recent call last):
  File "C:\Users\KIIT\Desktop\drowsiness_detection\yolov5\train.py", line 647,
in <module>
    main(opt)
  File "C:\Users\KIIT\Desktop\drowsiness_detection\yolov5\train.py", line 536,
in main
    train(opt.hyp, opt, device, callbacks)
  File "C:\Users\KIIT\Desktop\drowsiness_detection\yolov5\train.py", line 325,
in train
    scaler.scale(loss).backward()
  File "C:\Users\KIIT\anaconda3\lib\site-packages\torch\_tensor.py", line 487,
in backward
    torch.autograd.backward(
  File "C:\Users\KIIT\anaconda3\lib\site-packages\torch\autograd\_init_.py",
line 200, in backward
    Variable._execution_engine.run_backward( # Calls into the C++ engine to run
the backward pass
torch.cuda.OutOfMemoryError: CUDA out of memory. Tried to allocate 2.00 MiB (GPU
0; 2.00 GiB total capacity; 294.00 MiB already allocated; 1002.80 KiB free;
360.00 MiB reserved in total by PyTorch) If reserved memory is >> allocated
memory try setting max_split_size_mb to avoid fragmentation.  See documentation
for Memory Management and PYTORCH_CUDA_ALLOC_CONF

```

```
[56]: torch.cuda.empty_cache()
```

```
[57]: !cd yolov5 && python train.py --img 320 --batch 1 --epochs 500 --data dataset.
      ↪yaml --weights yolov5s.pt --workers 2
```

```

train: weights=yolov5s.pt, cfg=, data=dataset.yaml,
hyp=data\hyps\hyp.scratch-low.yaml, epochs=500, batch_size=1, imgsz=320,

```



```

rect=False, resume=False, nosave=False, noval=False, noautoanchor=False,
noplots=False, evolve=None, bucket=, cache=None, image_weights=False, device=,
multi_scale=False, single_cls=False, optimizer=SGD, sync_bn=False, workers=2,
project=runs\train, name=exp, exist_ok=False, quad=False, cos_lr=False,
label_smoothing=0.0, patience=100, freeze=[0], save_period=-1, seed=0,
local_rank=-1, entity=None, upload_dataset=False, bbox_interval=-1,
artifact_alias=latest
github: up to date with https://github.com/ultralytics/yolov5
YOLOv5 v7.0-193-g485da42 Python-3.9.13 torch-2.0.1+cu117 CUDA:0 (GeForce MX330,
2048MiB)

```

```

hyperparameters: lr0=0.01, lrf=0.01, momentum=0.937,
weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1,
box=0.05, cls=0.5, cls_pw=1.0, obj=1.0, obj_pw=1.0, iou_t=0.2, anchor_t=4.0,
fl_gamma=0.0, hsv_h=0.015, hsv_s=0.7, hsv_v=0.4, degrees=0.0, translate=0.1,
scale=0.5, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0,
mixup=0.0, copy_paste=0.0
Comet: run 'pip install comet_ml' to automatically track and
visualize YOLOv5 runs in Comet
TensorBoard: Start with 'tensorboard --logdir runs\train', view at
http://localhost:6006/
Overriding model.yaml nc=80 with nc=17

```

	from	n	params	module	
arguments					
0	-1	1	3520	models.common.Conv	[3,
32, 6, 2, 2]					
1	-1	1	18560	models.common.Conv	[32,
64, 3, 2]					
2	-1	1	18816	models.common.C3	[64,
64, 1]					
3	-1	1	73984	models.common.Conv	[64,
128, 3, 2]					
4	-1	2	115712	models.common.C3	
[128, 128, 2]					
5	-1	1	295424	models.common.Conv	
[128, 256, 3, 2]					
6	-1	3	625152	models.common.C3	
[256, 256, 3]					
7	-1	1	1180672	models.common.Conv	
[256, 512, 3, 2]					
8	-1	1	1182720	models.common.C3	
[512, 512, 1]					
9	-1	1	656896	models.common.SPPF	
[512, 512, 5]					
10	-1	1	131584	models.common.Conv	
[512, 256, 1, 1]					
11	-1	1	0	torch.nn.modules.upsampling.Upsample	

```

[None, 2, 'nearest']
12          [-1, 6]  1          0  models.common.Concat          [1]
13          -1  1    361984  models.common.C3
[512, 256, 1, False]
14          -1  1    33024  models.common.Conv
[256, 128, 1, 1]
15          -1  1          0  torch.nn.modules.upsampling.Upsample
[None, 2, 'nearest']
16          [-1, 4]  1          0  models.common.Concat          [1]
17          -1  1    90880  models.common.C3
[256, 128, 1, False]
18          -1  1   147712  models.common.Conv
[128, 128, 3, 2]
19          [-1, 14]  1          0  models.common.Concat          [1]
20          -1  1   296448  models.common.C3
[256, 256, 1, False]
21          -1  1   590336  models.common.Conv
[256, 256, 3, 2]
22          [-1, 10]  1          0  models.common.Concat          [1]
23          -1  1  1182720  models.common.C3
[512, 512, 1, False]
24    [17, 20, 23]  1    59334  models.yolo.Detect          [17,
[[10, 13, 16, 30, 33, 23], [30, 61, 62, 45, 59, 119], [116, 90, 156, 198, 373,
326]], [128, 256, 512]]
Model summary: 214 layers, 7065478 parameters, 7065478 gradients, 16.1 GFLOPs

```

Transferred 343/349 items from yolov5s.pt

AMP: checks passed

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

train: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

train: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

val: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

val: Scanning

C:\Users\KIIT\Desktop\drowsiness_detection\data\labels.cache... 40 images, 0
backgrounds, 0 corrupt: 100%|#####| 40/40 [00:00<?, ?it/s]

AutoAnchor: 5.57 anchors/target, 1.000 Best Possible Recall (BPR).

Current anchors are a good fit to dataset

Plotting labels to runs\train\exp5\labels.jpg...

Image sizes 320 train, 320 val
Using 0 dataloader workers
Logging results to runs\train\exp5
Starting training for 500 epochs...

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
	0/499	0.157G	0.1212	0.01955	0.08477	4	320:
0%		0/40 [00:00<?, ?it/s]					
	0/499	0.157G	0.1212	0.01955	0.08477	4	320:
2% 2		1/40 [00:02<01:18, 2.02s/it]					
	0/499	0.18G	0.1042	0.01898	0.09018	3	320:
2% 2		1/40 [00:02<01:18, 2.02s/it]					
	0/499	0.18G	0.1042	0.01898	0.09018	3	320:
5% 5		2/40 [00:02<00:36, 1.04it/s]					
	0/499	0.206G	0.1018	0.01829	0.0909	2	320:
5% 5		2/40 [00:02<00:36, 1.04it/s]					
	0/499	0.206G	0.1018	0.01829	0.0909	2	320:
8% 7		3/40 [00:02<00:23, 1.61it/s]					
	0/499	0.206G	0.09485	0.01625	0.07923	2	320:
8% 7		3/40 [00:02<00:23, 1.61it/s]					
	0/499	0.206G	0.09485	0.01625	0.07923	2	320:
10% #		4/40 [00:02<00:15, 2.28it/s]					
	0/499	0.206G	0.09155	0.01475	0.07235	1	320:
10% #		4/40 [00:02<00:15, 2.28it/s]					
	0/499	0.206G	0.09155	0.01475	0.07235	1	320:
12% #2		5/40 [00:02<00:11, 2.97it/s]					
	0/499	0.206G	0.09423	0.01722	0.07355	4	320:
12% #2		5/40 [00:02<00:11, 2.97it/s]					
	0/499	0.206G	0.09423	0.01722	0.07355	4	320:
15% #5		6/40 [00:02<00:09, 3.70it/s]					
	0/499	0.206G	0.09159	0.0162	0.06993	1	320:
15% #5		6/40 [00:03<00:09, 3.70it/s]					
	0/499	0.206G	0.09159	0.0162	0.06993	1	320:
18% #7		7/40 [00:03<00:08, 4.02it/s]					
	0/499	0.206G	0.08532	0.01512	0.06406	2	320:
18% #7		7/40 [00:03<00:08, 4.02it/s]					
	0/499	0.206G	0.08532	0.01512	0.06406	2	320:
20% ##		8/40 [00:03<00:06, 4.66it/s]					
	0/499	0.206G	0.08536	0.01457	0.06237	2	320:
20% ##		8/40 [00:03<00:06, 4.66it/s]					
	0/499	0.206G	0.08536	0.01457	0.06237	2	320:
22% ##2		9/40 [00:03<00:06, 5.09it/s]					
	0/499	0.206G	0.08408	0.01396	0.06075	1	320:
22% ##2		9/40 [00:03<00:06, 5.09it/s]					
	0/499	0.206G	0.08408	0.01396	0.06075	1	320:
25% ##5		10/40 [00:03<00:05, 5.42it/s]					

0/499	0.206G	0.08644	0.01536	0.0626	4	320:
25% ##5	10/40 [00:03<00:05,	5.42it/s]				
0/499	0.206G	0.08644	0.01536	0.0626	4	320:
28% ##7	11/40 [00:03<00:05,	5.67it/s]				
0/499	0.206G	0.08514	0.01477	0.06195	1	320:
28% ##7	11/40 [00:03<00:05,	5.67it/s]				
0/499	0.206G	0.08514	0.01477	0.06195	1	320:
30% ###	12/40 [00:03<00:04,	6.04it/s]				
0/499	0.206G	0.08773	0.01553	0.06303	4	320:
30% ###	12/40 [00:04<00:04,	6.04it/s]				
0/499	0.206G	0.08773	0.01553	0.06303	4	320:
32% ###2	13/40 [00:04<00:04,	6.15it/s]				
0/499	0.206G	0.08649	0.01514	0.06185	1	320:
32% ###2	13/40 [00:04<00:04,	6.15it/s]				
0/499	0.206G	0.08649	0.01514	0.06185	1	320:
35% ###5	14/40 [00:04<00:04,	6.22it/s]				
0/499	0.206G	0.08587	0.01471	0.06067	1	320:
35% ###5	14/40 [00:04<00:04,	6.22it/s]				
0/499	0.206G	0.08587	0.01471	0.06067	1	320:
38% ###7	15/40 [00:04<00:04,	5.92it/s]				
0/499	0.206G	0.08466	0.01443	0.05991	1	320:
38% ###7	15/40 [00:04<00:04,	5.92it/s]				
0/499	0.206G	0.08466	0.01443	0.05991	1	320:
40% ####	16/40 [00:04<00:03,	6.06it/s]				
0/499	0.206G	0.08701	0.01437	0.06009	2	320:
40% ####	16/40 [00:04<00:03,	6.06it/s]				
0/499	0.206G	0.08701	0.01437	0.06009	2	320:
42% ####2	17/40 [00:04<00:03,	5.96it/s]				
0/499	0.206G	0.08643	0.01404	0.05966	1	320:
42% ####2	17/40 [00:04<00:03,	5.96it/s]				
0/499	0.206G	0.08643	0.01404	0.05966	1	320:
45% ####5	18/40 [00:04<00:03,	6.09it/s]				
0/499	0.206G	0.0871	0.01413	0.06135	2	320:
45% ####5	18/40 [00:05<00:03,	6.09it/s]				
0/499	0.206G	0.0871	0.01413	0.06135	2	320:
48% ####7	19/40 [00:05<00:03,	6.18it/s]				
0/499	0.206G	0.08629	0.01391	0.06074	1	320:
48% ####7	19/40 [00:05<00:03,	6.18it/s]				
0/499	0.206G	0.08629	0.01391	0.06074	1	320:
50% ####	20/40 [00:05<00:03,	6.00it/s]				
0/499	0.206G	0.08694	0.01471	0.06173	4	320:
50% ####	20/40 [00:05<00:03,	6.00it/s]				
0/499	0.206G	0.08694	0.01471	0.06173	4	320:
52% ####2	21/40 [00:05<00:03,	5.97it/s]				
0/499	0.206G	0.08726	0.0148	0.06274	2	320:
52% ####2	21/40 [00:05<00:03,	5.97it/s]				
0/499	0.206G	0.08726	0.0148	0.06274	2	320:
55% ####5	22/40 [00:05<00:02,	6.09it/s]				

0/499	0.206G	0.08813	0.01533	0.06342	4	320:
55% #####5	22/40 [00:05<00:02,	6.09it/s]				
0/499	0.206G	0.08813	0.01533	0.06342	4	320:
57% #####7	23/40 [00:05<00:02,	6.17it/s]				
0/499	0.206G	0.08876	0.01523	0.06411	2	320:
57% #####7	23/40 [00:05<00:02,	6.17it/s]				
0/499	0.206G	0.08876	0.01523	0.06411	2	320:
60% #####	24/40 [00:05<00:02,	5.89it/s]				
0/499	0.206G	0.08817	0.01522	0.06351	2	320:
60% #####	24/40 [00:06<00:02,	5.89it/s]				
0/499	0.206G	0.08817	0.01522	0.06351	2	320:
62% #####2	25/40 [00:06<00:02,	6.03it/s]				
0/499	0.206G	0.08908	0.01579	0.06388	4	320:
62% #####2	25/40 [00:06<00:02,	6.03it/s]				
0/499	0.206G	0.08908	0.01579	0.06388	4	320:
65% #####5	26/40 [00:06<00:02,	5.97it/s]				
0/499	0.206G	0.08882	0.01585	0.0644	2	320:
65% #####5	26/40 [00:06<00:02,	5.97it/s]				
0/499	0.206G	0.08882	0.01585	0.0644	2	320:
68% #####7	27/40 [00:06<00:02,	5.97it/s]				
0/499	0.206G	0.08803	0.01566	0.06373	1	320:
68% #####7	27/40 [00:06<00:02,	5.97it/s]				
0/499	0.206G	0.08803	0.01566	0.06373	1	320:
70% #####	28/40 [00:06<00:02,	5.92it/s]				
0/499	0.206G	0.08754	0.01543	0.06342	1	320:
70% #####	28/40 [00:06<00:02,	5.92it/s]				
0/499	0.206G	0.08754	0.01543	0.06342	1	320:
72% #####2	29/40 [00:06<00:01,	5.89it/s]				
0/499	0.206G	0.08719	0.01521	0.06295	1	320:
72% #####2	29/40 [00:06<00:01,	5.89it/s]				
0/499	0.206G	0.08719	0.01521	0.06295	1	320:
75% #####5	30/40 [00:06<00:01,	5.96it/s]				
0/499	0.206G	0.08836	0.01532	0.06353	4	320:
75% #####5	30/40 [00:07<00:01,	5.96it/s]				
0/499	0.206G	0.08836	0.01532	0.06353	4	320:
78% #####7	31/40 [00:07<00:01,	5.92it/s]				
0/499	0.206G	0.08749	0.01513	0.06281	1	320:
78% #####7	31/40 [00:07<00:01,	5.92it/s]				
0/499	0.206G	0.08749	0.01513	0.06281	1	320:
80% #####	32/40 [00:07<00:01,	5.58it/s]				
0/499	0.206G	0.08765	0.01523	0.06328	2	320:
80% #####	32/40 [00:07<00:01,	5.58it/s]				
0/499	0.206G	0.08765	0.01523	0.06328	2	320:
82% #####2	33/40 [00:07<00:01,	5.69it/s]				
0/499	0.206G	0.08813	0.01581	0.06368	4	320:
82% #####2	33/40 [00:07<00:01,	5.69it/s]				
0/499	0.206G	0.08813	0.01581	0.06368	4	320:
85% #####5	34/40 [00:07<00:01,	5.88it/s]				

0/499	0.206G	0.08751	0.01589	0.06319	2	320:
85% #####5	34/40	[00:07<00:01,	5.88it/s]			
0/499	0.206G	0.08751	0.01589	0.06319	2	320:
88% #####7	35/40	[00:07<00:00,	5.86it/s]			
0/499	0.206G	0.08774	0.01586	0.06347	2	320:
88% #####7	35/40	[00:07<00:00,	5.86it/s]			
0/499	0.206G	0.08774	0.01586	0.06347	2	320:
90% #####	36/40	[00:07<00:00,	5.94it/s]			
0/499	0.206G	0.08834	0.01623	0.06366	4	320:
90% #####	36/40	[00:08<00:00,	5.94it/s]			
0/499	0.206G	0.08834	0.01623	0.06366	4	320:
92% #####2	37/40	[00:08<00:00,	6.07it/s]			
0/499	0.206G	0.08788	0.0162	0.06316	2	320:
92% #####2	37/40	[00:08<00:00,	6.07it/s]			
0/499	0.206G	0.08788	0.0162	0.06316	2	320:
95% #####5	38/40	[00:08<00:00,	6.16it/s]			
0/499	0.206G	0.08718	0.01605	0.06286	1	320:
95% #####5	38/40	[00:08<00:00,	6.16it/s]			
0/499	0.206G	0.08718	0.01605	0.06286	1	320:
98% #####7	39/40	[00:08<00:00,	6.07it/s]			
0/499	0.206G	0.08666	0.01609	0.0625	2	320:
98% #####7	39/40	[00:08<00:00,	6.07it/s]			
0/499	0.206G	0.08666	0.01609	0.0625	2	320:
100% #####	40/40	[00:08<00:00,	6.29it/s]			
0/499	0.206G	0.08666	0.01609	0.0625	2	320:
100% #####	40/40	[00:08<00:00,	4.69it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 15.98it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 25% ##5		5/20	[00:00<00:00, 19.27it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 35% ###5		7/20	[00:00<00:00, 19.47it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 20.66it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 65% #####5		13/20	[00:00<00:00, 20.92it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 21.07it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:00<00:00, 21.12it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:00<00:00, 20.59it/s]			
	all	40	40	0.0118	0.35	0.0265
0.00362						

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
	1/499	0.206G	0.1134	0.02758	0.07119	4	320:
0%		0/40 [00:00<?, ?it/s]					
	1/499	0.206G	0.1134	0.02758	0.07119	4	320:
2% 2		1/40 [00:00<00:05, 6.52it/s]					
	1/499	0.206G	0.1123	0.02736	0.07032	4	320:
2% 2		1/40 [00:00<00:05, 6.52it/s]					
	1/499	0.206G	0.1123	0.02736	0.07032	4	320:
5% 5		2/40 [00:00<00:05, 6.45it/s]					
	1/499	0.206G	0.09731	0.02374	0.06336	2	320:
5% 5		2/40 [00:00<00:05, 6.45it/s]					
	1/499	0.206G	0.09731	0.02374	0.06336	2	320:
8% 7		3/40 [00:00<00:05, 6.42it/s]					
	1/499	0.206G	0.09024	0.02217	0.05951	2	320:
8% 7		3/40 [00:00<00:05, 6.42it/s]					
	1/499	0.206G	0.09024	0.02217	0.05951	2	320:
10% #		4/40 [00:00<00:05, 6.66it/s]					
	1/499	0.206G	0.09439	0.0228	0.06315	4	320:
10% #		4/40 [00:00<00:05, 6.66it/s]					
	1/499	0.206G	0.09439	0.0228	0.06315	4	320:
12% #2		5/40 [00:00<00:05, 6.33it/s]					
	1/499	0.206G	0.09063	0.02146	0.06083	2	320:
12% #2		5/40 [00:00<00:05, 6.33it/s]					
	1/499	0.206G	0.09063	0.02146	0.06083	2	320:
15% #5		6/40 [00:00<00:05, 6.35it/s]					
	1/499	0.206G	0.08496	0.01981	0.05913	1	320:
15% #5		6/40 [00:01<00:05, 6.35it/s]					
	1/499	0.206G	0.08496	0.01981	0.05913	1	320:
18% #7		7/40 [00:01<00:05, 6.35it/s]					
	1/499	0.206G	0.08631	0.02155	0.0611	4	320:
18% #7		7/40 [00:01<00:05, 6.35it/s]					
	1/499	0.206G	0.08631	0.02155	0.0611	4	320:
20% ##		8/40 [00:01<00:05, 6.35it/s]					

IOPub data rate exceeded.
 The notebook server will temporarily stop sending output
 to the client in order to avoid crashing it.
 To change this limit, set the config variable
 `--NotebookApp.iopub_data_rate_limit`.

Current values:
 NotebookApp.iopub_data_rate_limit=1000000.0 (bytes/sec)
 NotebookApp.rate_limit_window=3.0 (secs)

423/499	0.206G	0.0222	0.008925	0.02035	2	320:
40% ####	16/40 [00:03<00:04, 5.65it/s]					
423/499	0.206G	0.0222	0.008925	0.02035	2	320:

42% ####2	17/40 [00:03<00:04,	5.55it/s]				
423/499	0.206G	0.0214	0.008593	0.02015	1	320:
42% ####2	17/40 [00:03<00:04,	5.55it/s]				
423/499	0.206G	0.0214	0.008593	0.02015	1	320:
45% ####5	18/40 [00:03<00:03,	5.61it/s]				
423/499	0.206G	0.0209	0.008351	0.01996	1	320:
45% ####5	18/40 [00:03<00:03,	5.61it/s]				
423/499	0.206G	0.0209	0.008351	0.01996	1	320:
48% ####7	19/40 [00:03<00:03,	5.67it/s]				
423/499	0.206G	0.02082	0.008596	0.0202	4	320:
48% ####7	19/40 [00:03<00:03,	5.67it/s]				
423/499	0.206G	0.02082	0.008596	0.0202	4	320:
50% #####	20/40 [00:03<00:03,	5.71it/s]				
423/499	0.206G	0.02022	0.008379	0.02009	1	320:
50% #####	20/40 [00:03<00:03,	5.71it/s]				
423/499	0.206G	0.02022	0.008379	0.02009	1	320:
52% ####2	21/40 [00:03<00:03,	5.73it/s]				
423/499	0.206G	0.02189	0.008348	0.0207	2	320:
52% ####2	21/40 [00:04<00:03,	5.73it/s]				
423/499	0.206G	0.02189	0.008348	0.0207	2	320:
55% ####5	22/40 [00:04<00:03,	5.46it/s]				
423/499	0.206G	0.02224	0.008225	0.02059	2	320:
55% ####5	22/40 [00:04<00:03,	5.46it/s]				
423/499	0.206G	0.02224	0.008225	0.02059	2	320:
57% ####7	23/40 [00:04<00:03,	5.42it/s]				
423/499	0.206G	0.02236	0.008676	0.02063	4	320:
57% ####7	23/40 [00:04<00:03,	5.42it/s]				
423/499	0.206G	0.02236	0.008676	0.02063	4	320:
60% #####	24/40 [00:04<00:02,	5.49it/s]				
423/499	0.206G	0.02322	0.008784	0.02043	2	320:
60% #####	24/40 [00:04<00:02,	5.49it/s]				
423/499	0.206G	0.02322	0.008784	0.02043	2	320:
62% ####2	25/40 [00:04<00:02,	5.59it/s]				
423/499	0.206G	0.02278	0.008594	0.02028	1	320:
62% ####2	25/40 [00:04<00:02,	5.59it/s]				
423/499	0.206G	0.02278	0.008594	0.02028	1	320:
65% ####5	26/40 [00:04<00:02,	5.51it/s]				
423/499	0.206G	0.02256	0.008837	0.02012	4	320:
65% ####5	26/40 [00:04<00:02,	5.51it/s]				
423/499	0.206G	0.02256	0.008837	0.02012	4	320:
68% ####7	27/40 [00:04<00:02,	5.61it/s]				
423/499	0.206G	0.02243	0.008806	0.01998	1	320:
68% ####7	27/40 [00:05<00:02,	5.61it/s]				
423/499	0.206G	0.02243	0.008806	0.01998	1	320:
70% #####	28/40 [00:05<00:02,	5.67it/s]				
423/499	0.206G	0.02197	0.008736	0.01996	2	320:
70% #####	28/40 [00:05<00:02,	5.67it/s]				
423/499	0.206G	0.02197	0.008736	0.01996	2	320:

72%	#####2		29/40	[00:05<00:01,	5.71it/s]				
	423/499		0.206G	0.02194	0.008831	0.02005	4	320:	
72%	#####2		29/40	[00:05<00:01,	5.71it/s]				
	423/499		0.206G	0.02194	0.008831	0.02005	4	320:	
75%	#####5		30/40	[00:05<00:01,	5.58it/s]				
	423/499		0.206G	0.02161	0.008746	0.01993	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.58it/s]				
	423/499		0.206G	0.02161	0.008746	0.01993	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.65it/s]				
	423/499		0.206G	0.02119	0.008576	0.01974	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.65it/s]				
	423/499		0.206G	0.02119	0.008576	0.01974	1	320:	
80%	#####		32/40	[00:05<00:01,	5.55it/s]				
	423/499		0.206G	0.02161	0.008564	0.0197	2	320:	
80%	#####		32/40	[00:06<00:01,	5.55it/s]				
	423/499		0.206G	0.02161	0.008564	0.0197	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.60it/s]				
	423/499		0.206G	0.02181	0.008536	0.0204	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.60it/s]				
	423/499		0.206G	0.02181	0.008536	0.0204	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.52it/s]				
	423/499		0.206G	0.02143	0.008408	0.02052	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.52it/s]				
	423/499		0.206G	0.02143	0.008408	0.02052	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.60it/s]				
	423/499		0.206G	0.02106	0.00833	0.02038	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.60it/s]				
	423/499		0.206G	0.02106	0.00833	0.02038	1	320:	
90%	#####		36/40	[00:06<00:00,	5.49it/s]				
	423/499		0.206G	0.0209	0.008334	0.0202	2	320:	
90%	#####		36/40	[00:06<00:00,	5.49it/s]				
	423/499		0.206G	0.0209	0.008334	0.0202	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.59it/s]				
	423/499		0.206G	0.02123	0.008284	0.02007	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.59it/s]				
	423/499		0.206G	0.02123	0.008284	0.02007	2	320:	
95%	#####5		38/40	[00:06<00:00,	5.51it/s]				
	423/499		0.206G	0.02097	0.008192	0.02	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.51it/s]				
	423/499		0.206G	0.02097	0.008192	0.02	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.60it/s]				
	423/499		0.206G	0.02116	0.008259	0.0201	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.60it/s]				
	423/499		0.206G	0.02116	0.008259	0.0201	4	320:	
100%	#####		40/40	[00:07<00:00,	5.52it/s]				
	423/499		0.206G	0.02116	0.008259	0.0201	4	320:	
100%	#####		40/40	[00:07<00:00,	5.50it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 13.75it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 13.32it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 15.20it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 15.51it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 16.40it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 16.15it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 16.79it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 17.24it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90% #####		18/20	[00:01<00:00, 17.55it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 17.77it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.56it/s]			
	all	40	40	0.98	0.985	0.995

0.76

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
424/499	0.206G	0.01367	0.004213	0.01494	1	320:
0%		0/40	[00:00<?, ?it/s]			
424/499	0.206G	0.01367	0.004213	0.01494	1	320:
2% 2		1/40	[00:00<00:07, 5.33it/s]			
424/499	0.206G	0.02376	0.006481	0.01599	2	320:
2% 2		1/40	[00:00<00:07, 5.33it/s]			
424/499	0.206G	0.02376	0.006481	0.01599	2	320:
5% 5		2/40	[00:00<00:06, 5.59it/s]			
424/499	0.206G	0.01999	0.005354	0.01576	1	320:
5% 5		2/40	[00:00<00:06, 5.59it/s]			
424/499	0.206G	0.01999	0.005354	0.01576	1	320:
8% 7		3/40	[00:00<00:06, 5.69it/s]			
424/499	0.206G	0.02391	0.00874	0.01857	4	320:
8% 7		3/40	[00:00<00:06, 5.69it/s]			
424/499	0.206G	0.02391	0.00874	0.01857	4	320:
10% #		4/40	[00:00<00:06, 5.34it/s]			
424/499	0.206G	0.02393	0.01069	0.01964	4	320:
10% #		4/40	[00:00<00:06, 5.34it/s]			

424/499	0.206G	0.02393	0.01069	0.01964	4	320:
12% #2	5/40 [00:00<00:06,	5.33it/s]				
424/499	0.206G	0.0224	0.01041	0.01927	2	320:
12% #2	5/40 [00:01<00:06,	5.33it/s]				
424/499	0.206G	0.0224	0.01041	0.01927	2	320:
15% #5	6/40 [00:01<00:06,	5.65it/s]				
424/499	0.206G	0.02453	0.01113	0.01982	4	320:
15% #5	6/40 [00:01<00:06,	5.65it/s]				
424/499	0.206G	0.02453	0.01113	0.01982	4	320:
18% #7	7/40 [00:01<00:06,	5.38it/s]				
424/499	0.206G	0.02232	0.01016	0.01968	1	320:
18% #7	7/40 [00:01<00:06,	5.38it/s]				
424/499	0.206G	0.02232	0.01016	0.01968	1	320:
20% ##	8/40 [00:01<00:05,	5.52it/s]				
424/499	0.206G	0.02243	0.009885	0.01964	2	320:
20% ##	8/40 [00:01<00:05,	5.52it/s]				
424/499	0.206G	0.02243	0.009885	0.01964	2	320:
22% ##2	9/40 [00:01<00:05,	5.45it/s]				
424/499	0.206G	0.02396	0.009662	0.01928	2	320:
22% ##2	9/40 [00:01<00:05,	5.45it/s]				
424/499	0.206G	0.02396	0.009662	0.01928	2	320:
25% ##5	10/40 [00:01<00:05,	5.54it/s]				
424/499	0.206G	0.02292	0.009079	0.01924	1	320:
25% ##5	10/40 [00:02<00:05,	5.54it/s]				
424/499	0.206G	0.02292	0.009079	0.01924	1	320:
28% ##7	11/40 [00:02<00:05,	5.34it/s]				
424/499	0.206G	0.02167	0.008607	0.01947	1	320:
28% ##7	11/40 [00:02<00:05,	5.34it/s]				
424/499	0.206G	0.02167	0.008607	0.01947	1	320:
30% ###	12/40 [00:02<00:05,	5.48it/s]				
424/499	0.206G	0.02209	0.009121	0.01979	4	320:
30% ###	12/40 [00:02<00:05,	5.48it/s]				
424/499	0.206G	0.02209	0.009121	0.01979	4	320:
32% ###2	13/40 [00:02<00:04,	5.56it/s]				
424/499	0.206G	0.02334	0.008979	0.02027	3	320:
32% ###2	13/40 [00:02<00:04,	5.56it/s]				
424/499	0.206G	0.02334	0.008979	0.02027	3	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
424/499	0.206G	0.02386	0.00955	0.02032	4	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
424/499	0.206G	0.02386	0.00955	0.02032	4	320:
38% ###7	15/40 [00:02<00:04,	5.40it/s]				
424/499	0.206G	0.02338	0.009559	0.02009	2	320:
38% ###7	15/40 [00:02<00:04,	5.40it/s]				
424/499	0.206G	0.02338	0.009559	0.02009	2	320:
40% ####	16/40 [00:02<00:04,	5.49it/s]				
424/499	0.206G	0.02321	0.009614	0.01979	2	320:
40% ####	16/40 [00:03<00:04,	5.49it/s]				

424/499	0.206G	0.02321	0.009614	0.01979	2	320:
42% #####2	17/40 [00:03<00:04,	5.59it/s]				
424/499	0.206G	0.02273	0.009278	0.0196	1	320:
42% #####2	17/40 [00:03<00:04,	5.59it/s]				
424/499	0.206G	0.02273	0.009278	0.0196	1	320:
45% #####5	18/40 [00:03<00:03,	5.65it/s]				
424/499	0.206G	0.02285	0.009429	0.01952	2	320:
45% #####5	18/40 [00:03<00:03,	5.65it/s]				
424/499	0.206G	0.02285	0.009429	0.01952	2	320:
48% #####7	19/40 [00:03<00:03,	5.54it/s]				
424/499	0.206G	0.02256	0.009171	0.01942	1	320:
48% #####7	19/40 [00:03<00:03,	5.54it/s]				
424/499	0.206G	0.02256	0.009171	0.01942	1	320:
50% #####	20/40 [00:03<00:03,	5.62it/s]				
424/499	0.206G	0.02183	0.008875	0.01898	1	320:
50% #####	20/40 [00:03<00:03,	5.62it/s]				
424/499	0.206G	0.02183	0.008875	0.01898	1	320:
52% #####2	21/40 [00:03<00:03,	5.84it/s]				
424/499	0.206G	0.02209	0.00913	0.01937	4	320:
52% #####2	21/40 [00:03<00:03,	5.84it/s]				
424/499	0.206G	0.02209	0.00913	0.01937	4	320:
55% #####5	22/40 [00:03<00:03,	5.67it/s]				
424/499	0.206G	0.02183	0.00928	0.01935	2	320:
55% #####5	22/40 [00:04<00:03,	5.67it/s]				
424/499	0.206G	0.02183	0.00928	0.01935	2	320:
57% #####7	23/40 [00:04<00:02,	5.71it/s]				
424/499	0.206G	0.02197	0.009671	0.01968	4	320:
57% #####7	23/40 [00:04<00:02,	5.71it/s]				
424/499	0.206G	0.02197	0.009671	0.01968	4	320:
60% #####	24/40 [00:04<00:03,	5.31it/s]				
424/499	0.206G	0.02144	0.009614	0.01951	2	320:
60% #####	24/40 [00:04<00:03,	5.31it/s]				
424/499	0.206G	0.02144	0.009614	0.01951	2	320:
62% #####2	25/40 [00:04<00:02,	5.44it/s]				
424/499	0.206G	0.02121	0.009573	0.0193	2	320:
62% #####2	25/40 [00:04<00:02,	5.44it/s]				
424/499	0.206G	0.02121	0.009573	0.0193	2	320:
65% #####5	26/40 [00:04<00:02,	5.55it/s]				
424/499	0.206G	0.02132	0.009955	0.01925	4	320:
65% #####5	26/40 [00:04<00:02,	5.55it/s]				
424/499	0.206G	0.02132	0.009955	0.01925	4	320:
68% #####7	27/40 [00:04<00:02,	5.48it/s]				
424/499	0.206G	0.02117	0.01005	0.01947	4	320:
68% #####7	27/40 [00:05<00:02,	5.48it/s]				
424/499	0.206G	0.02117	0.01005	0.01947	4	320:
70% #####	28/40 [00:05<00:02,	5.03it/s]				
424/499	0.206G	0.02059	0.009783	0.01931	1	320:
70% #####	28/40 [00:05<00:02,	5.03it/s]				

424/499	0.206G	0.02059	0.009783	0.01931	1	320:
72% #####2	29/40 [00:05<00:02,	5.25it/s]				
424/499	0.206G	0.02024	0.009624	0.0191	1	320:
72% #####2	29/40 [00:05<00:02,	5.25it/s]				
424/499	0.206G	0.02024	0.009624	0.0191	1	320:
75% #####5	30/40 [00:05<00:01,	5.23it/s]				
424/499	0.206G	0.01987	0.009415	0.01906	1	320:
75% #####5	30/40 [00:05<00:01,	5.23it/s]				
424/499	0.206G	0.01987	0.009415	0.01906	1	320:
78% #####7	31/40 [00:05<00:01,	5.13it/s]				
424/499	0.206G	0.02011	0.009617	0.0191	4	320:
78% #####7	31/40 [00:05<00:01,	5.13it/s]				
424/499	0.206G	0.02011	0.009617	0.0191	4	320:
80% #####	32/40 [00:05<00:01,	5.07it/s]				
424/499	0.206G	0.01993	0.009442	0.01901	1	320:
80% #####	32/40 [00:06<00:01,	5.07it/s]				
424/499	0.206G	0.01993	0.009442	0.01901	1	320:
82% #####2	33/40 [00:06<00:01,	4.92it/s]				
424/499	0.206G	0.02002	0.009352	0.01905	2	320:
82% #####2	33/40 [00:06<00:01,	4.92it/s]				
424/499	0.206G	0.02002	0.009352	0.01905	2	320:
85% #####5	34/40 [00:06<00:01,	4.92it/s]				
424/499	0.206G	0.01986	0.009365	0.01906	2	320:
85% #####5	34/40 [00:06<00:01,	4.92it/s]				
424/499	0.206G	0.01986	0.009365	0.01906	2	320:
88% #####7	35/40 [00:06<00:01,	4.85it/s]				
424/499	0.206G	0.01959	0.009176	0.01885	1	320:
88% #####7	35/40 [00:06<00:01,	4.85it/s]				
424/499	0.206G	0.01959	0.009176	0.01885	1	320:
90% #####	36/40 [00:06<00:00,	4.82it/s]				
424/499	0.206G	0.0202	0.00909	0.01878	2	320:
90% #####	36/40 [00:06<00:00,	4.82it/s]				
424/499	0.206G	0.0202	0.00909	0.01878	2	320:
92% #####2	37/40 [00:06<00:00,	4.74it/s]				
424/499	0.206G	0.01998	0.009004	0.01871	2	320:
92% #####2	37/40 [00:07<00:00,	4.74it/s]				
424/499	0.206G	0.01998	0.009004	0.01871	2	320:
95% #####5	38/40 [00:07<00:00,	4.89it/s]				
424/499	0.206G	0.02015	0.008974	0.01875	2	320:
95% #####5	38/40 [00:07<00:00,	4.89it/s]				
424/499	0.206G	0.02015	0.008974	0.01875	2	320:
98% #####7	39/40 [00:07<00:00,	4.79it/s]				
424/499	0.206G	0.01984	0.008834	0.01877	1	320:
98% #####7	39/40 [00:07<00:00,	4.79it/s]				
424/499	0.206G	0.01984	0.008834	0.01877	1	320:
100% #####	40/40 [00:07<00:00,	4.92it/s]				
424/499	0.206G	0.01984	0.008834	0.01877	1	320:
100% #####	40/40 [00:07<00:00,	5.29it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 14.38it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 15.29it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 14.78it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 14.47it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 14.98it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 15.31it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 16.17it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:01<00:00, 15.34it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 16.74it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 15.56it/s]			
	all	40	40	0.98	0.983	0.995

0.777

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
425/499	0.206G	0.04474	0.00648	0.01632	2	320:
0%		0/40	[00:00<?, ?it/s]			
425/499	0.206G	0.04474	0.00648	0.01632	2	320:
2% 2		1/40	[00:00<00:07, 5.32it/s]			
425/499	0.206G	0.03167	0.01005	0.01822	4	320:
2% 2		1/40	[00:00<00:07, 5.32it/s]			
425/499	0.206G	0.03167	0.01005	0.01822	4	320:
5% 5		2/40	[00:00<00:07, 5.33it/s]			
425/499	0.206G	0.03632	0.01033	0.02057	4	320:
5% 5		2/40	[00:00<00:07, 5.33it/s]			
425/499	0.206G	0.03632	0.01033	0.02057	4	320:
8% 7		3/40	[00:00<00:06, 5.53it/s]			
425/499	0.206G	0.0354	0.01224	0.02223	4	320:
8% 7		3/40	[00:00<00:06, 5.53it/s]			
425/499	0.206G	0.0354	0.01224	0.02223	4	320:
10% #		4/40	[00:00<00:06, 5.27it/s]			
425/499	0.206G	0.03662	0.01105	0.02868	2	320:
10% #		4/40	[00:00<00:06, 5.27it/s]			
425/499	0.206G	0.03662	0.01105	0.02868	2	320:

12% #2	5/40 [00:00<00:06,	5.45it/s]				
425/499	0.206G	0.03557	0.01115	0.02626	2	320:
12% #2	5/40 [00:01<00:06,	5.45it/s]				
425/499	0.206G	0.03557	0.01115	0.02626	2	320:
15% #5	6/40 [00:01<00:06,	5.40it/s]				
425/499	0.206G	0.03293	0.0117	0.0251	4	320:
15% #5	6/40 [00:01<00:06,	5.40it/s]				
425/499	0.206G	0.03293	0.0117	0.0251	4	320:
18% #7	7/40 [00:01<00:06,	5.10it/s]				
425/499	0.206G	0.03375	0.01139	0.02453	4	320:
18% #7	7/40 [00:01<00:06,	5.10it/s]				
425/499	0.206G	0.03375	0.01139	0.02453	4	320:
20% ##	8/40 [00:01<00:06,	5.30it/s]				
425/499	0.206G	0.03143	0.01048	0.02381	1	320:
20% ##	8/40 [00:01<00:06,	5.30it/s]				
425/499	0.206G	0.03143	0.01048	0.02381	1	320:
22% ##2	9/40 [00:01<00:05,	5.29it/s]				
425/499	0.206G	0.02936	0.009778	0.02302	1	320:
22% ##2	9/40 [00:01<00:05,	5.29it/s]				
425/499	0.206G	0.02936	0.009778	0.02302	1	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
425/499	0.206G	0.02804	0.009321	0.0226	1	320:
25% ##5	10/40 [00:02<00:05,	5.59it/s]				
425/499	0.206G	0.02804	0.009321	0.0226	1	320:
28% ##7	11/40 [00:02<00:05,	5.51it/s]				
425/499	0.206G	0.02678	0.0092	0.0218	1	320:
28% ##7	11/40 [00:02<00:05,	5.51it/s]				
425/499	0.206G	0.02678	0.0092	0.0218	1	320:
30% ###	12/40 [00:02<00:05,	5.58it/s]				
425/499	0.206G	0.02545	0.009052	0.02156	2	320:
30% ###	12/40 [00:02<00:05,	5.58it/s]				
425/499	0.206G	0.02545	0.009052	0.02156	2	320:
32% ###2	13/40 [00:02<00:04,	5.65it/s]				
425/499	0.206G	0.02528	0.009642	0.02189	4	320:
32% ###2	13/40 [00:02<00:04,	5.65it/s]				
425/499	0.206G	0.02528	0.009642	0.02189	4	320:
35% ###5	14/40 [00:02<00:04,	5.70it/s]				
425/499	0.206G	0.02469	0.009319	0.02155	2	320:
35% ###5	14/40 [00:02<00:04,	5.70it/s]				
425/499	0.206G	0.02469	0.009319	0.02155	2	320:
38% ###7	15/40 [00:02<00:04,	5.73it/s]				
425/499	0.206G	0.02369	0.008956	0.02114	1	320:
38% ###7	15/40 [00:02<00:04,	5.73it/s]				
425/499	0.206G	0.02369	0.008956	0.02114	1	320:
40% ####	16/40 [00:02<00:04,	5.76it/s]				
425/499	0.206G	0.02361	0.009051	0.02083	1	320:
40% ####	16/40 [00:03<00:04,	5.76it/s]				
425/499	0.206G	0.02361	0.009051	0.02083	1	320:

42% ####2	17/40 [00:03<00:04,	5.62it/s]				
425/499	0.206G	0.02463	0.009653	0.02122	4	320:
42% ####2	17/40 [00:03<00:04,	5.62it/s]				
425/499	0.206G	0.02463	0.009653	0.02122	4	320:
45% ####5	18/40 [00:03<00:03,	5.66it/s]				
425/499	0.206G	0.02411	0.009849	0.02118	4	320:
45% ####5	18/40 [00:03<00:03,	5.66it/s]				
425/499	0.206G	0.02411	0.009849	0.02118	4	320:
48% ####7	19/40 [00:03<00:03,	5.56it/s]				
425/499	0.206G	0.02377	0.009965	0.02171	4	320:
48% ####7	19/40 [00:03<00:03,	5.56it/s]				
425/499	0.206G	0.02377	0.009965	0.02171	4	320:
50% #####	20/40 [00:03<00:03,	5.63it/s]				
425/499	0.206G	0.02376	0.01034	0.02153	4	320:
50% #####	20/40 [00:03<00:03,	5.63it/s]				
425/499	0.206G	0.02376	0.01034	0.02153	4	320:
52% ####2	21/40 [00:03<00:03,	5.52it/s]				
425/499	0.206G	0.02322	0.01001	0.02144	1	320:
52% ####2	21/40 [00:03<00:03,	5.52it/s]				
425/499	0.206G	0.02322	0.01001	0.02144	1	320:
55% ####5	22/40 [00:03<00:03,	5.61it/s]				
425/499	0.206G	0.02295	0.009891	0.02202	2	320:
55% ####5	22/40 [00:04<00:03,	5.61it/s]				
425/499	0.206G	0.02295	0.009891	0.02202	2	320:
57% ####7	23/40 [00:04<00:02,	5.67it/s]				
425/499	0.206G	0.02391	0.009935	0.02191	4	320:
57% ####7	23/40 [00:04<00:02,	5.67it/s]				
425/499	0.206G	0.02391	0.009935	0.02191	4	320:
60% #####	24/40 [00:04<00:02,	5.53it/s]				
425/499	0.206G	0.0234	0.009658	0.02157	1	320:
60% #####	24/40 [00:04<00:02,	5.53it/s]				
425/499	0.206G	0.0234	0.009658	0.02157	1	320:
62% ####2	25/40 [00:04<00:02,	5.61it/s]				
425/499	0.206G	0.02304	0.009655	0.02128	2	320:
62% ####2	25/40 [00:04<00:02,	5.61it/s]				
425/499	0.206G	0.02304	0.009655	0.02128	2	320:
65% ####5	26/40 [00:04<00:02,	5.68it/s]				
425/499	0.206G	0.02254	0.009433	0.02139	1	320:
65% ####5	26/40 [00:04<00:02,	5.68it/s]				
425/499	0.206G	0.02254	0.009433	0.02139	1	320:
68% ####7	27/40 [00:04<00:02,	5.73it/s]				
425/499	0.206G	0.02226	0.009234	0.02127	1	320:
68% ####7	27/40 [00:05<00:02,	5.73it/s]				
425/499	0.206G	0.02226	0.009234	0.02127	1	320:
70% #####	28/40 [00:05<00:02,	5.32it/s]				
425/499	0.206G	0.0231	0.009137	0.02137	2	320:
70% #####	28/40 [00:05<00:02,	5.32it/s]				
425/499	0.206G	0.0231	0.009137	0.02137	2	320:

72%	#####2		29/40	[00:05<00:02,	5.37it/s]				
	425/499		0.206G	0.02424	0.009024	0.02125	2	320:	
72%	#####2		29/40	[00:05<00:02,	5.37it/s]				
	425/499		0.206G	0.02424	0.009024	0.02125	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.42it/s]				
	425/499		0.206G	0.02382	0.008878	0.02107	1	320:	
75%	#####5		30/40	[00:05<00:01,	5.42it/s]				
	425/499		0.206G	0.02382	0.008878	0.02107	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.53it/s]				
	425/499		0.206G	0.02397	0.009139	0.02111	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.53it/s]				
	425/499		0.206G	0.02397	0.009139	0.02111	4	320:	
80%	#####		32/40	[00:05<00:01,	5.33it/s]				
	425/499		0.206G	0.02361	0.00925	0.02095	4	320:	
80%	#####		32/40	[00:06<00:01,	5.33it/s]				
	425/499		0.206G	0.02361	0.00925	0.02095	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.33it/s]				
	425/499		0.206G	0.02327	0.009086	0.02096	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.33it/s]				
	425/499		0.206G	0.02327	0.009086	0.02096	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.47it/s]				
	425/499		0.206G	0.02281	0.008896	0.02074	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.47it/s]				
	425/499		0.206G	0.02281	0.008896	0.02074	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.55it/s]				
	425/499		0.206G	0.0233	0.009106	0.02089	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.55it/s]				
	425/499		0.206G	0.0233	0.009106	0.02089	4	320:	
90%	#####		36/40	[00:06<00:00,	5.34it/s]				
	425/499		0.206G	0.0235	0.00902	0.02111	2	320:	
90%	#####		36/40	[00:06<00:00,	5.34it/s]				
	425/499		0.206G	0.0235	0.00902	0.02111	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.34it/s]				
	425/499		0.206G	0.02335	0.00888	0.02098	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.34it/s]				
	425/499		0.206G	0.02335	0.00888	0.02098	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.32it/s]				
	425/499		0.206G	0.02328	0.008942	0.02103	3	320:	
95%	#####5		38/40	[00:07<00:00,	5.32it/s]				
	425/499		0.206G	0.02328	0.008942	0.02103	3	320:	
98%	#####7		39/40	[00:07<00:00,	5.33it/s]				
	425/499		0.206G	0.02318	0.009053	0.02097	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.33it/s]				
	425/499		0.206G	0.02318	0.009053	0.02097	4	320:	
100%	#####		40/40	[00:07<00:00,	5.33it/s]				
	425/499		0.206G	0.02318	0.009053	0.02097	4	320:	
100%	#####		40/40	[00:07<00:00,	5.48it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 17.74it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 18.05it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 18.16it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 16.37it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 15.89it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 17.00it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 17.40it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 17.67it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90% #####		18/20	[00:01<00:00, 17.86it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 15.83it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.77it/s]			
	all	40	40	0.977	1	0.995

0.796

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
426/499	0.206G	0.0236	0.01133	0.02055	4	320:
0%		0/40	[00:00<?, ?it/s]			
426/499	0.206G	0.0236	0.01133	0.02055	4	320:
2% 2		1/40	[00:00<00:06, 5.77it/s]			
426/499	0.206G	0.02554	0.008097	0.02695	2	320:
2% 2		1/40	[00:00<00:06, 5.77it/s]			
426/499	0.206G	0.02554	0.008097	0.02695	2	320:
5% 5		2/40	[00:00<00:06, 5.51it/s]			
426/499	0.206G	0.02577	0.01096	0.02549	4	320:
5% 5		2/40	[00:00<00:06, 5.51it/s]			
426/499	0.206G	0.02577	0.01096	0.02549	4	320:
8% 7		3/40	[00:00<00:06, 5.43it/s]			
426/499	0.206G	0.02862	0.01068	0.02308	2	320:
8% 7		3/40	[00:00<00:06, 5.43it/s]			
426/499	0.206G	0.02862	0.01068	0.02308	2	320:
10% #		4/40	[00:00<00:06, 5.54it/s]			
426/499	0.206G	0.02437	0.009619	0.02209	1	320:
10% #		4/40	[00:00<00:06, 5.54it/s]			

426/499	0.206G	0.02437	0.009619	0.02209	1	320:
12% #2	5/40 [00:00<00:06,	5.64it/s]				
426/499	0.206G	0.02243	0.008511	0.02139	1	320:
12% #2	5/40 [00:01<00:06,	5.64it/s]				
426/499	0.206G	0.02243	0.008511	0.02139	1	320:
15% #5	6/40 [00:01<00:05,	5.70it/s]				
426/499	0.206G	0.0245	0.009646	0.02131	4	320:
15% #5	6/40 [00:01<00:05,	5.70it/s]				
426/499	0.206G	0.0245	0.009646	0.02131	4	320:
18% #7	7/40 [00:01<00:05,	5.56it/s]				
426/499	0.206G	0.02384	0.009792	0.02083	3	320:
18% #7	7/40 [00:01<00:05,	5.56it/s]				
426/499	0.206G	0.02384	0.009792	0.02083	3	320:
20% ##	8/40 [00:01<00:05,	5.64it/s]				
426/499	0.206G	0.02208	0.009185	0.02029	1	320:
20% ##	8/40 [00:01<00:05,	5.64it/s]				
426/499	0.206G	0.02208	0.009185	0.02029	1	320:
22% ##2	9/40 [00:01<00:05,	5.69it/s]				
426/499	0.206G	0.02184	0.01011	0.02018	4	320:
22% ##2	9/40 [00:01<00:05,	5.69it/s]				
426/499	0.206G	0.02184	0.01011	0.02018	4	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
426/499	0.206G	0.02264	0.009824	0.02004	1	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
426/499	0.206G	0.02264	0.009824	0.02004	1	320:
28% ##7	11/40 [00:01<00:05,	5.75it/s]				
426/499	0.206G	0.02487	0.009528	0.01982	2	320:
28% ##7	11/40 [00:02<00:05,	5.75it/s]				
426/499	0.206G	0.02487	0.009528	0.01982	2	320:
30% ###	12/40 [00:02<00:04,	5.77it/s]				
426/499	0.206G	0.02377	0.009398	0.01927	2	320:
30% ###	12/40 [00:02<00:04,	5.77it/s]				
426/499	0.206G	0.02377	0.009398	0.01927	2	320:
32% ###2	13/40 [00:02<00:04,	5.61it/s]				
426/499	0.206G	0.02256	0.008949	0.01871	1	320:
32% ###2	13/40 [00:02<00:04,	5.61it/s]				
426/499	0.206G	0.02256	0.008949	0.01871	1	320:
35% ###5	14/40 [00:02<00:04,	5.66it/s]				
426/499	0.206G	0.02221	0.009322	0.01907	4	320:
35% ###5	14/40 [00:02<00:04,	5.66it/s]				
426/499	0.206G	0.02221	0.009322	0.01907	4	320:
38% ###7	15/40 [00:02<00:04,	5.71it/s]				
426/499	0.206G	0.02259	0.00961	0.01928	4	320:
38% ###7	15/40 [00:02<00:04,	5.71it/s]				
426/499	0.206G	0.02259	0.00961	0.01928	4	320:
40% ####	16/40 [00:02<00:04,	5.57it/s]				
426/499	0.206G	0.02199	0.009508	0.01892	2	320:
40% ####	16/40 [00:03<00:04,	5.57it/s]				

426/499	0.206G	0.02199	0.009508	0.01892	2	320:
42% ####2	17/40 [00:03<00:04,	5.50it/s]				
426/499	0.206G	0.02143	0.00924	0.0189	2	320:
42% ####2	17/40 [00:03<00:04,	5.50it/s]				
426/499	0.206G	0.02143	0.00924	0.0189	2	320:
45% ####5	18/40 [00:03<00:04,	5.27it/s]				
426/499	0.206G	0.02163	0.009486	0.01884	4	320:
45% ####5	18/40 [00:03<00:04,	5.27it/s]				
426/499	0.206G	0.02163	0.009486	0.01884	4	320:
48% ####7	19/40 [00:03<00:04,	5.17it/s]				
426/499	0.206G	0.02138	0.009389	0.01873	2	320:
48% ####7	19/40 [00:03<00:04,	5.17it/s]				
426/499	0.206G	0.02138	0.009389	0.01873	2	320:
50% #####	20/40 [00:03<00:03,	5.22it/s]				
426/499	0.206G	0.02095	0.009207	0.01881	2	320:
50% #####	20/40 [00:03<00:03,	5.22it/s]				
426/499	0.206G	0.02095	0.009207	0.01881	2	320:
52% #####2	21/40 [00:03<00:03,	5.26it/s]				
426/499	0.206G	0.02064	0.00905	0.01872	2	320:
52% #####2	21/40 [00:04<00:03,	5.26it/s]				
426/499	0.206G	0.02064	0.00905	0.01872	2	320:
55% #####5	22/40 [00:04<00:03,	5.15it/s]				
426/499	0.206G	0.02027	0.008877	0.01862	2	320:
55% #####5	22/40 [00:04<00:03,	5.15it/s]				
426/499	0.206G	0.02027	0.008877	0.01862	2	320:
57% #####7	23/40 [00:04<00:03,	5.20it/s]				
426/499	0.206G	0.02196	0.009163	0.01861	3	320:
57% #####7	23/40 [00:04<00:03,	5.20it/s]				
426/499	0.206G	0.02196	0.009163	0.01861	3	320:
60% #####	24/40 [00:04<00:03,	4.99it/s]				
426/499	0.206G	0.02237	0.00953	0.01888	4	320:
60% #####	24/40 [00:04<00:03,	4.99it/s]				
426/499	0.206G	0.02237	0.00953	0.01888	4	320:
62% #####2	25/40 [00:04<00:03,	4.75it/s]				
426/499	0.206G	0.02218	0.009646	0.01926	4	320:
62% #####2	25/40 [00:04<00:03,	4.75it/s]				
426/499	0.206G	0.02218	0.009646	0.01926	4	320:
65% #####5	26/40 [00:04<00:02,	4.80it/s]				
426/499	0.206G	0.02264	0.009532	0.01913	2	320:
65% #####5	26/40 [00:05<00:02,	4.80it/s]				
426/499	0.206G	0.02264	0.009532	0.01913	2	320:
68% #####7	27/40 [00:05<00:02,	4.81it/s]				
426/499	0.206G	0.02216	0.00943	0.01925	2	320:
68% #####7	27/40 [00:05<00:02,	4.81it/s]				
426/499	0.206G	0.02216	0.00943	0.01925	2	320:
70% #####	28/40 [00:05<00:02,	4.84it/s]				
426/499	0.206G	0.02171	0.009338	0.01904	2	320:
70% #####	28/40 [00:05<00:02,	4.84it/s]				

426/499	0.206G	0.02171	0.009338	0.01904	2	320:
72% #####2	29/40 [00:05<00:02,	4.97it/s]				
426/499	0.206G	0.02193	0.009527	0.01913	4	320:
72% #####2	29/40 [00:05<00:02,	4.97it/s]				
426/499	0.206G	0.02193	0.009527	0.01913	4	320:
75% #####5	30/40 [00:05<00:02,	4.73it/s]				
426/499	0.206G	0.02202	0.009694	0.01924	4	320:
75% #####5	30/40 [00:05<00:02,	4.73it/s]				
426/499	0.206G	0.02202	0.009694	0.01924	4	320:
78% #####7	31/40 [00:05<00:01,	4.79it/s]				
426/499	0.206G	0.02177	0.009777	0.01946	4	320:
78% #####7	31/40 [00:06<00:01,	4.79it/s]				
426/499	0.206G	0.02177	0.009777	0.01946	4	320:
80% #####	32/40 [00:06<00:01,	4.93it/s]				
426/499	0.206G	0.02256	0.009679	0.01947	2	320:
80% #####	32/40 [00:06<00:01,	4.93it/s]				
426/499	0.206G	0.02256	0.009679	0.01947	2	320:
82% #####2	33/40 [00:06<00:01,	5.05it/s]				
426/499	0.206G	0.02261	0.009872	0.01974	4	320:
82% #####2	33/40 [00:06<00:01,	5.05it/s]				
426/499	0.206G	0.02261	0.009872	0.01974	4	320:
85% #####5	34/40 [00:06<00:01,	4.99it/s]				
426/499	0.206G	0.02243	0.009704	0.01963	1	320:
85% #####5	34/40 [00:06<00:01,	4.99it/s]				
426/499	0.206G	0.02243	0.009704	0.01963	1	320:
88% #####7	35/40 [00:06<00:00,	5.34it/s]				
426/499	0.206G	0.02201	0.009607	0.0196	2	320:
88% #####7	35/40 [00:06<00:00,	5.34it/s]				
426/499	0.206G	0.02201	0.009607	0.0196	2	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
426/499	0.206G	0.02168	0.009542	0.01947	2	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
426/499	0.206G	0.02168	0.009542	0.01947	2	320:
92% #####2	37/40 [00:06<00:00,	5.57it/s]				
426/499	0.206G	0.02126	0.009397	0.01924	1	320:
92% #####2	37/40 [00:07<00:00,	5.57it/s]				
426/499	0.206G	0.02126	0.009397	0.01924	1	320:
95% #####5	38/40 [00:07<00:00,	5.64it/s]				
426/499	0.206G	0.02108	0.009291	0.0193	2	320:
95% #####5	38/40 [00:07<00:00,	5.64it/s]				
426/499	0.206G	0.02108	0.009291	0.0193	2	320:
98% #####7	39/40 [00:07<00:00,	5.40it/s]				
426/499	0.206G	0.02107	0.009457	0.01927	4	320:
98% #####7	39/40 [00:07<00:00,	5.40it/s]				
426/499	0.206G	0.02107	0.009457	0.01927	4	320:
100% #####	40/40 [00:07<00:00,	5.30it/s]				
426/499	0.206G	0.02107	0.009457	0.01927	4	320:
100% #####	40/40 [00:07<00:00,	5.30it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:00, 19.45it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 17.25it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 17.71it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 17.92it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 17.87it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 65% #####5		13/20	[00:00<00:00, 18.43it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		15/20	[00:00<00:00, 18.39it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:00<00:00, 18.36it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 18.17it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 18.34it/s]			
	all	40	40	0.977	1	0.995

0.796

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
427/499	0.206G	0.05882	0.005266	0.01607	2	320:
0%		0/40	[00:00<?, ?it/s]			
427/499	0.206G	0.05882	0.005266	0.01607	2	320:
2% 2		1/40	[00:00<00:06, 5.78it/s]			
427/499	0.206G	0.0411	0.007647	0.02218	3	320:
2% 2		1/40	[00:00<00:06, 5.78it/s]			
427/499	0.206G	0.0411	0.007647	0.02218	3	320:
5% 5		2/40	[00:00<00:06, 5.48it/s]			
427/499	0.206G	0.03205	0.006792	0.02015	2	320:
5% 5		2/40	[00:00<00:06, 5.48it/s]			
427/499	0.206G	0.03205	0.006792	0.02015	2	320:
8% 7		3/40	[00:00<00:06, 5.87it/s]			
427/499	0.206G	0.03293	0.00657	0.019	2	320:
8% 7		3/40	[00:00<00:06, 5.87it/s]			
427/499	0.206G	0.03293	0.00657	0.019	2	320:
10% #		4/40	[00:00<00:06, 5.66it/s]			
427/499	0.206G	0.03393	0.007358	0.02107	3	320:
10% #		4/40	[00:00<00:06, 5.66it/s]			
427/499	0.206G	0.03393	0.007358	0.02107	3	320:

12% #2	5/40 [00:00<00:06,	5.64it/s]				
427/499	0.206G	0.03053	0.006693	0.01984	1	320:
12% #2	5/40 [00:01<00:06,	5.64it/s]				
427/499	0.206G	0.03053	0.006693	0.01984	1	320:
15% #5	6/40 [00:01<00:06,	5.58it/s]				
427/499	0.206G	0.0292	0.006861	0.01939	2	320:
15% #5	6/40 [00:01<00:06,	5.58it/s]				
427/499	0.206G	0.0292	0.006861	0.01939	2	320:
18% #7	7/40 [00:01<00:06,	5.47it/s]				
427/499	0.206G	0.02876	0.007479	0.02052	4	320:
18% #7	7/40 [00:01<00:06,	5.47it/s]				
427/499	0.206G	0.02876	0.007479	0.02052	4	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
427/499	0.206G	0.03006	0.007959	0.02015	3	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
427/499	0.206G	0.03006	0.007959	0.02015	3	320:
22% ##2	9/40 [00:01<00:05,	5.40it/s]				
427/499	0.206G	0.0282	0.007484	0.01957	1	320:
22% ##2	9/40 [00:01<00:05,	5.40it/s]				
427/499	0.206G	0.0282	0.007484	0.01957	1	320:
25% ##5	10/40 [00:01<00:05,	5.50it/s]				
427/499	0.206G	0.02721	0.007687	0.02081	2	320:
25% ##5	10/40 [00:01<00:05,	5.50it/s]				
427/499	0.206G	0.02721	0.007687	0.02081	2	320:
28% ##7	11/40 [00:01<00:05,	5.60it/s]				
427/499	0.206G	0.02675	0.008437	0.02079	4	320:
28% ##7	11/40 [00:02<00:05,	5.60it/s]				
427/499	0.206G	0.02675	0.008437	0.02079	4	320:
30% ###	12/40 [00:02<00:05,	5.24it/s]				
427/499	0.206G	0.02717	0.008949	0.02076	4	320:
30% ###	12/40 [00:02<00:05,	5.24it/s]				
427/499	0.206G	0.02717	0.008949	0.02076	4	320:
32% ###2	13/40 [00:02<00:05,	5.38it/s]				
427/499	0.206G	0.02696	0.009806	0.02074	4	320:
32% ###2	13/40 [00:02<00:05,	5.38it/s]				
427/499	0.206G	0.02696	0.009806	0.02074	4	320:
35% ###5	14/40 [00:02<00:04,	5.37it/s]				
427/499	0.206G	0.02665	0.009512	0.0203	2	320:
35% ###5	14/40 [00:02<00:04,	5.37it/s]				
427/499	0.206G	0.02665	0.009512	0.0203	2	320:
38% ###7	15/40 [00:02<00:04,	5.50it/s]				
427/499	0.206G	0.02592	0.009311	0.02028	2	320:
38% ###7	15/40 [00:02<00:04,	5.50it/s]				
427/499	0.206G	0.02592	0.009311	0.02028	2	320:
40% ####	16/40 [00:02<00:04,	5.43it/s]				
427/499	0.206G	0.02512	0.009259	0.02033	2	320:
40% ####	16/40 [00:03<00:04,	5.43it/s]				
427/499	0.206G	0.02512	0.009259	0.02033	2	320:

42% ####2	17/40 [00:03<00:04,	5.54it/s]				
427/499	0.206G	0.02427	0.009069	0.02023	2	320:
42% ####2	17/40 [00:03<00:04,	5.54it/s]				
427/499	0.206G	0.02427	0.009069	0.02023	2	320:
45% ####5	18/40 [00:03<00:03,	5.62it/s]				
427/499	0.206G	0.02416	0.009351	0.02012	4	320:
45% ####5	18/40 [00:03<00:03,	5.62it/s]				
427/499	0.206G	0.02416	0.009351	0.02012	4	320:
48% ####7	19/40 [00:03<00:03,	5.67it/s]				
427/499	0.206G	0.02336	0.009374	0.01993	4	320:
48% ####7	19/40 [00:03<00:03,	5.67it/s]				
427/499	0.206G	0.02336	0.009374	0.01993	4	320:
50% #####	20/40 [00:03<00:03,	5.57it/s]				
427/499	0.206G	0.02384	0.009239	0.01989	2	320:
50% #####	20/40 [00:03<00:03,	5.57it/s]				
427/499	0.206G	0.02384	0.009239	0.01989	2	320:
52% ####2	21/40 [00:03<00:03,	5.49it/s]				
427/499	0.206G	0.02337	0.009017	0.01968	1	320:
52% ####2	21/40 [00:04<00:03,	5.49it/s]				
427/499	0.206G	0.02337	0.009017	0.01968	1	320:
55% ####5	22/40 [00:04<00:03,	5.39it/s]				
427/499	0.206G	0.02294	0.008927	0.01972	2	320:
55% ####5	22/40 [00:04<00:03,	5.39it/s]				
427/499	0.206G	0.02294	0.008927	0.01972	2	320:
57% ####7	23/40 [00:04<00:03,	5.51it/s]				
427/499	0.206G	0.0224	0.008835	0.01959	2	320:
57% ####7	23/40 [00:04<00:03,	5.51it/s]				
427/499	0.206G	0.0224	0.008835	0.01959	2	320:
60% #####	24/40 [00:04<00:02,	5.46it/s]				
427/499	0.206G	0.02182	0.008623	0.01941	1	320:
60% #####	24/40 [00:04<00:02,	5.46it/s]				
427/499	0.206G	0.02182	0.008623	0.01941	1	320:
62% ####2	25/40 [00:04<00:02,	5.57it/s]				
427/499	0.206G	0.02173	0.008818	0.0193	2	320:
62% ####2	25/40 [00:04<00:02,	5.57it/s]				
427/499	0.206G	0.02173	0.008818	0.0193	2	320:
65% ####5	26/40 [00:04<00:02,	5.64it/s]				
427/499	0.206G	0.02248	0.008975	0.01935	2	320:
65% ####5	26/40 [00:04<00:02,	5.64it/s]				
427/499	0.206G	0.02248	0.008975	0.01935	2	320:
68% ####7	27/40 [00:04<00:02,	5.55it/s]				
427/499	0.206G	0.02258	0.008854	0.01932	2	320:
68% ####7	27/40 [00:05<00:02,	5.55it/s]				
427/499	0.206G	0.02258	0.008854	0.01932	2	320:
70% #####	28/40 [00:05<00:02,	5.33it/s]				
427/499	0.206G	0.02275	0.008783	0.01916	2	320:
70% #####	28/40 [00:05<00:02,	5.33it/s]				
427/499	0.206G	0.02275	0.008783	0.01916	2	320:

72%	#####2		29/40	[00:05<00:02,	5.33it/s]				
	427/499		0.206G	0.02312	0.009031	0.01929	4	320:	
72%	#####2		29/40	[00:05<00:02,	5.33it/s]				
	427/499		0.206G	0.02312	0.009031	0.01929	4	320:	
75%	#####5		30/40	[00:05<00:01,	5.32it/s]				
	427/499		0.206G	0.02294	0.009169	0.0197	4	320:	
75%	#####5		30/40	[00:05<00:01,	5.32it/s]				
	427/499		0.206G	0.02294	0.009169	0.0197	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.32it/s]				
	427/499		0.206G	0.02275	0.009302	0.01966	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.32it/s]				
	427/499		0.206G	0.02275	0.009302	0.01966	4	320:	
80%	#####		32/40	[00:05<00:01,	5.46it/s]				
	427/499		0.206G	0.02257	0.009363	0.0197	4	320:	
80%	#####		32/40	[00:06<00:01,	5.46it/s]				
	427/499		0.206G	0.02257	0.009363	0.0197	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.42it/s]				
	427/499		0.206G	0.02246	0.009296	0.01994	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.42it/s]				
	427/499		0.206G	0.02246	0.009296	0.01994	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.53it/s]				
	427/499		0.206G	0.02245	0.009167	0.0198	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.53it/s]				
	427/499		0.206G	0.02245	0.009167	0.0198	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.47it/s]				
	427/499		0.206G	0.02269	0.009166	0.01979	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.47it/s]				
	427/499		0.206G	0.02269	0.009166	0.01979	2	320:	
90%	#####		36/40	[00:06<00:00,	5.55it/s]				
	427/499		0.206G	0.02254	0.009314	0.01978	4	320:	
90%	#####		36/40	[00:06<00:00,	5.55it/s]				
	427/499		0.206G	0.02254	0.009314	0.01978	4	320:	
92%	#####2		37/40	[00:06<00:00,	5.62it/s]				
	427/499		0.206G	0.02258	0.00948	0.01969	4	320:	
92%	#####2		37/40	[00:06<00:00,	5.62it/s]				
	427/499		0.206G	0.02258	0.00948	0.01969	4	320:	
95%	#####5		38/40	[00:06<00:00,	5.53it/s]				
	427/499		0.206G	0.02222	0.009354	0.01972	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.53it/s]				
	427/499		0.206G	0.02222	0.009354	0.01972	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.60it/s]				
	427/499		0.206G	0.0221	0.009345	0.01973	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.60it/s]				
	427/499		0.206G	0.0221	0.009345	0.01973	2	320:	
100%	#####		40/40	[00:07<00:00,	5.82it/s]				
	427/499		0.206G	0.0221	0.009345	0.01973	2	320:	
100%	#####		40/40	[00:07<00:00,	5.52it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:00, 18.28it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 18.28it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 17.42it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 45% ####5		9/20	[00:00<00:00, 17.14it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 55% #####5		11/20	[00:00<00:00, 16.08it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 65% #####5		13/20	[00:00<00:00, 16.72it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		15/20	[00:00<00:00, 17.03it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:00<00:00, 17.40it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 16.28it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####5		20/20	[00:01<00:00, 16.54it/s]			
	all	40	40	0.992	0.997	0.995

0.801

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
428/499	0.206G	0.01708	0.01237	0.02053	4	320:
0%		0/40	[00:00<?, ?it/s]			
428/499	0.206G	0.01708	0.01237	0.02053	4	320:
2% 2		1/40	[00:00<00:07, 5.42it/s]			
428/499	0.206G	0.02611	0.01199	0.01781	2	320:
2% 2		1/40	[00:00<00:07, 5.42it/s]			
428/499	0.206G	0.02611	0.01199	0.01781	2	320:
5% 5		2/40	[00:00<00:06, 5.86it/s]			
428/499	0.206G	0.02087	0.0125	0.01661	4	320:
5% 5		2/40	[00:00<00:06, 5.86it/s]			
428/499	0.206G	0.02087	0.0125	0.01661	4	320:
8% 7		3/40	[00:00<00:06, 5.84it/s]			
428/499	0.206G	0.01886	0.01063	0.0166	1	320:
8% 7		3/40	[00:00<00:06, 5.84it/s]			
428/499	0.206G	0.01886	0.01063	0.0166	1	320:
10% #		4/40	[00:00<00:06, 5.80it/s]			
428/499	0.206G	0.01856	0.009584	0.01604	1	320:
10% #		4/40	[00:00<00:06, 5.80it/s]			
428/499	0.206G	0.01856	0.009584	0.01604	1	320:
12% #2		5/40	[00:00<00:06, 5.63it/s]			

428/499	0.206G	0.01956	0.009113	0.01634	2	320:
12% #2	5/40 [00:01<00:06,	5.63it/s]				
428/499	0.206G	0.01956	0.009113	0.01634	2	320:
15% #5	6/40 [00:01<00:06,	5.22it/s]				
428/499	0.206G	0.02223	0.009706	0.01685	4	320:
15% #5	6/40 [00:01<00:06,	5.22it/s]				
428/499	0.206G	0.02223	0.009706	0.01685	4	320:
18% #7	7/40 [00:01<00:06,	5.24it/s]				
428/499	0.206G	0.02075	0.009584	0.01683	2	320:
18% #7	7/40 [00:01<00:06,	5.24it/s]				
428/499	0.206G	0.02075	0.009584	0.01683	2	320:
20% ##	8/40 [00:01<00:06,	5.13it/s]				
428/499	0.206G	0.02134	0.00949	0.01847	3	320:
20% ##	8/40 [00:01<00:06,	5.13it/s]				
428/499	0.206G	0.02134	0.00949	0.01847	3	320:
22% ##2	9/40 [00:01<00:06,	4.94it/s]				
428/499	0.206G	0.02076	0.009548	0.01832	3	320:
22% ##2	9/40 [00:01<00:06,	4.94it/s]				
428/499	0.206G	0.02076	0.009548	0.01832	3	320:
25% ##5	10/40 [00:01<00:05,	5.04it/s]				
428/499	0.206G	0.02035	0.009359	0.01821	2	320:
25% ##5	10/40 [00:02<00:05,	5.04it/s]				
428/499	0.206G	0.02035	0.009359	0.01821	2	320:
28% ##7	11/40 [00:02<00:05,	5.13it/s]				
428/499	0.206G	0.02017	0.009647	0.01837	4	320:
28% ##7	11/40 [00:02<00:05,	5.13it/s]				
428/499	0.206G	0.02017	0.009647	0.01837	4	320:
30% ###	12/40 [00:02<00:05,	4.94it/s]				
428/499	0.206G	0.01957	0.009193	0.01813	1	320:
30% ###	12/40 [00:02<00:05,	4.94it/s]				
428/499	0.206G	0.01957	0.009193	0.01813	1	320:
32% ###2	13/40 [00:02<00:05,	5.06it/s]				
428/499	0.206G	0.01878	0.00898	0.01833	2	320:
32% ###2	13/40 [00:02<00:05,	5.06it/s]				
428/499	0.206G	0.01878	0.00898	0.01833	2	320:
35% ###5	14/40 [00:02<00:05,	5.01it/s]				
428/499	0.206G	0.01919	0.009754	0.01902	4	320:
35% ###5	14/40 [00:02<00:05,	5.01it/s]				
428/499	0.206G	0.01919	0.009754	0.01902	4	320:
38% ###7	15/40 [00:02<00:05,	4.85it/s]				
428/499	0.206G	0.01838	0.009357	0.01884	1	320:
38% ###7	15/40 [00:03<00:05,	4.85it/s]				
428/499	0.206G	0.01838	0.009357	0.01884	1	320:
40% ####	16/40 [00:03<00:04,	4.99it/s]				
428/499	0.206G	0.0182	0.009291	0.01873	2	320:
40% ####	16/40 [00:03<00:04,	4.99it/s]				
428/499	0.206G	0.0182	0.009291	0.01873	2	320:
42% ####2	17/40 [00:03<00:04,	5.09it/s]				

428/499	0.206G	0.01969	0.009163	0.0197	2	320:
42% #####2	17/40 [00:03<00:04,	5.09it/s]				
428/499	0.206G	0.01969	0.009163	0.0197	2	320:
45% #####5	18/40 [00:03<00:04,	5.01it/s]				
428/499	0.206G	0.01972	0.009161	0.01951	2	320:
45% #####5	18/40 [00:03<00:04,	5.01it/s]				
428/499	0.206G	0.01972	0.009161	0.01951	2	320:
48% #####7	19/40 [00:03<00:04,	4.87it/s]				
428/499	0.206G	0.02062	0.009529	0.01995	4	320:
48% #####7	19/40 [00:03<00:04,	4.87it/s]				
428/499	0.206G	0.02062	0.009529	0.01995	4	320:
50% #####	20/40 [00:03<00:04,	4.88it/s]				
428/499	0.206G	0.02061	0.009321	0.01972	1	320:
50% #####	20/40 [00:04<00:04,	4.88it/s]				
428/499	0.206G	0.02061	0.009321	0.01972	1	320:
52% #####2	21/40 [00:04<00:03,	5.01it/s]				
428/499	0.206G	0.0206	0.00962	0.01988	4	320:
52% #####2	21/40 [00:04<00:03,	5.01it/s]				
428/499	0.206G	0.0206	0.00962	0.01988	4	320:
55% #####5	22/40 [00:04<00:03,	4.87it/s]				
428/499	0.206G	0.02009	0.009322	0.01961	1	320:
55% #####5	22/40 [00:04<00:03,	4.87it/s]				
428/499	0.206G	0.02009	0.009322	0.01961	1	320:
57% #####7	23/40 [00:04<00:03,	5.09it/s]				
428/499	0.206G	0.01953	0.009095	0.01949	1	320:
57% #####7	23/40 [00:04<00:03,	5.09it/s]				
428/499	0.206G	0.01953	0.009095	0.01949	1	320:
60% #####	24/40 [00:04<00:03,	5.29it/s]				
428/499	0.206G	0.01993	0.009558	0.01946	4	320:
60% #####	24/40 [00:04<00:03,	5.29it/s]				
428/499	0.206G	0.01993	0.009558	0.01946	4	320:
62% #####2	25/40 [00:04<00:02,	5.30it/s]				
428/499	0.206G	0.01947	0.00929	0.01929	1	320:
62% #####2	25/40 [00:05<00:02,	5.30it/s]				
428/499	0.206G	0.01947	0.00929	0.01929	1	320:
65% #####5	26/40 [00:05<00:02,	5.45it/s]				
428/499	0.206G	0.01922	0.009184	0.0192	2	320:
65% #####5	26/40 [00:05<00:02,	5.45it/s]				
428/499	0.206G	0.01922	0.009184	0.0192	2	320:
68% #####7	27/40 [00:05<00:02,	5.42it/s]				
428/499	0.206G	0.01881	0.009027	0.01921	2	320:
68% #####7	27/40 [00:05<00:02,	5.42it/s]				
428/499	0.206G	0.01881	0.009027	0.01921	2	320:
70% #####	28/40 [00:05<00:02,	5.68it/s]				
428/499	0.206G	0.01879	0.009261	0.01942	4	320:
70% #####	28/40 [00:05<00:02,	5.68it/s]				
428/499	0.206G	0.01879	0.009261	0.01942	4	320:
72% #####2	29/40 [00:05<00:02,	5.41it/s]				

428/499	0.206G	0.01872	0.0093	0.0193	2	320:
72% #####2	29/40 [00:05<00:02,	5.41it/s]				
428/499	0.206G	0.01872	0.0093	0.0193	2	320:
75% #####5	30/40 [00:05<00:01,	5.38it/s]				
428/499	0.206G	0.01877	0.00957	0.0193	4	320:
75% #####5	30/40 [00:05<00:01,	5.38it/s]				
428/499	0.206G	0.01877	0.00957	0.0193	4	320:
78% #####7	31/40 [00:05<00:01,	5.51it/s]				
428/499	0.206G	0.01961	0.009517	0.01923	3	320:
78% #####7	31/40 [00:06<00:01,	5.51it/s]				
428/499	0.206G	0.01961	0.009517	0.01923	3	320:
80% #####	32/40 [00:06<00:01,	5.57it/s]				
428/499	0.206G	0.01944	0.009443	0.01918	2	320:
80% #####	32/40 [00:06<00:01,	5.57it/s]				
428/499	0.206G	0.01944	0.009443	0.01918	2	320:
82% #####2	33/40 [00:06<00:01,	5.64it/s]				
428/499	0.206G	0.01965	0.009349	0.01925	2	320:
82% #####2	33/40 [00:06<00:01,	5.64it/s]				
428/499	0.206G	0.01965	0.009349	0.01925	2	320:
85% #####5	34/40 [00:06<00:01,	5.54it/s]				
428/499	0.206G	0.02063	0.009305	0.01925	3	320:
85% #####5	34/40 [00:06<00:01,	5.54it/s]				
428/499	0.206G	0.02063	0.009305	0.01925	3	320:
88% #####7	35/40 [00:06<00:00,	5.61it/s]				
428/499	0.206G	0.02036	0.009341	0.01912	2	320:
88% #####7	35/40 [00:06<00:00,	5.61it/s]				
428/499	0.206G	0.02036	0.009341	0.01912	2	320:
90% #####	36/40 [00:06<00:00,	5.39it/s]				
428/499	0.206G	0.02009	0.009247	0.01899	1	320:
90% #####	36/40 [00:07<00:00,	5.39it/s]				
428/499	0.206G	0.02009	0.009247	0.01899	1	320:
92% #####2	37/40 [00:07<00:00,	5.51it/s]				
428/499	0.206G	0.02014	0.009464	0.01906	4	320:
92% #####2	37/40 [00:07<00:00,	5.51it/s]				
428/499	0.206G	0.02014	0.009464	0.01906	4	320:
95% #####5	38/40 [00:07<00:00,	5.30it/s]				
428/499	0.206G	0.02007	0.009556	0.01904	4	320:
95% #####5	38/40 [00:07<00:00,	5.30it/s]				
428/499	0.206G	0.02007	0.009556	0.01904	4	320:
98% #####7	39/40 [00:07<00:00,	5.31it/s]				
428/499	0.206G	0.01992	0.009471	0.01899	2	320:
98% #####7	39/40 [00:07<00:00,	5.31it/s]				
428/499	0.206G	0.01992	0.009471	0.01899	2	320:
100% #####	40/40 [00:07<00:00,	5.58it/s]				
428/499	0.206G	0.01992	0.009471	0.01899	2	320:
100% #####	40/40 [00:07<00:00,	5.28it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:01, 17.19it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 16.47it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 17.25it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 15.91it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 15.83it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	65% #####5		13/20 [00:00<00:00, 17.14it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:00<00:00, 17.87it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 17.08it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.57it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.12it/s]			
		all	40 40	0.989	1	0.995
0.754						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
	0/40 [00:00<?, ?it/s]					
429/499	0.206G	0.04133	0.008075	0.02855	3	320:
0%						
	0/40 [00:00<?, ?it/s]					
429/499	0.206G	0.04133	0.008075	0.02855	3	320:
2% 2						
	1/40 [00:00<00:06, 6.36it/s]					
429/499	0.206G	0.03349	0.006236	0.02108	1	320:
2% 2						
	1/40 [00:00<00:06, 6.36it/s]					
429/499	0.206G	0.03349	0.006236	0.02108	1	320:
5% 5						
	2/40 [00:00<00:06, 6.02it/s]					
429/499	0.206G	0.02648	0.006477	0.01987	2	320:
5% 5						
	2/40 [00:00<00:06, 6.02it/s]					
429/499	0.206G	0.02648	0.006477	0.01987	2	320:
8% 7						
	3/40 [00:00<00:05, 6.19it/s]					
429/499	0.206G	0.02259	0.006453	0.01851	2	320:
8% 7						
	3/40 [00:00<00:05, 6.19it/s]					
429/499	0.206G	0.02259	0.006453	0.01851	2	320:
10% #						
	4/40 [00:00<00:06, 5.80it/s]					
429/499	0.206G	0.02203	0.007853	0.01958	4	320:
10% #						
	4/40 [00:00<00:06, 5.80it/s]					
429/499	0.206G	0.02203	0.007853	0.01958	4	320:
12% #2						
	5/40 [00:00<00:06, 5.80it/s]					
429/499	0.206G	0.02335	0.008926	0.02062	4	320:

12% #2	5/40 [00:01<00:06,	5.80it/s]				
429/499	0.206G	0.02335	0.008926	0.02062	4	320:
15% #5	6/40 [00:01<00:06,	5.47it/s]				
429/499	0.206G	0.02301	0.008571	0.02231	2	320:
15% #5	6/40 [00:01<00:06,	5.47it/s]				
429/499	0.206G	0.02301	0.008571	0.02231	2	320:
18% #7	7/40 [00:01<00:06,	5.42it/s]				
429/499	0.206G	0.02158	0.008212	0.02123	1	320:
18% #7	7/40 [00:01<00:06,	5.42it/s]				
429/499	0.206G	0.02158	0.008212	0.02123	1	320:
20% ##	8/40 [00:01<00:05,	5.54it/s]				
429/499	0.206G	0.02058	0.007933	0.02039	1	320:
20% ##	8/40 [00:01<00:05,	5.54it/s]				
429/499	0.206G	0.02058	0.007933	0.02039	1	320:
22% ##2	9/40 [00:01<00:05,	5.63it/s]				
429/499	0.206G	0.01986	0.008087	0.02025	2	320:
22% ##2	9/40 [00:01<00:05,	5.63it/s]				
429/499	0.206G	0.01986	0.008087	0.02025	2	320:
25% ##5	10/40 [00:01<00:05,	5.51it/s]				
429/499	0.206G	0.02178	0.008604	0.02123	4	320:
25% ##5	10/40 [00:01<00:05,	5.51it/s]				
429/499	0.206G	0.02178	0.008604	0.02123	4	320:
28% ##7	11/40 [00:01<00:05,	5.60it/s]				
429/499	0.206G	0.02085	0.008133	0.02062	1	320:
28% ##7	11/40 [00:02<00:05,	5.60it/s]				
429/499	0.206G	0.02085	0.008133	0.02062	1	320:
30% ###	12/40 [00:02<00:04,	5.67it/s]				
429/499	0.206G	0.0208	0.008135	0.02035	2	320:
30% ###	12/40 [00:02<00:04,	5.67it/s]				
429/499	0.206G	0.0208	0.008135	0.02035	2	320:
32% ###2	13/40 [00:02<00:04,	5.68it/s]				
429/499	0.206G	0.02004	0.007923	0.01993	1	320:
32% ###2	13/40 [00:02<00:04,	5.68it/s]				
429/499	0.206G	0.02004	0.007923	0.01993	1	320:
35% ###5	14/40 [00:02<00:04,	5.53it/s]				
429/499	0.206G	0.01953	0.007828	0.01975	1	320:
35% ###5	14/40 [00:02<00:04,	5.53it/s]				
429/499	0.206G	0.01953	0.007828	0.01975	1	320:
38% ###7	15/40 [00:02<00:04,	5.66it/s]				
429/499	0.206G	0.01907	0.007727	0.01985	2	320:
38% ###7	15/40 [00:02<00:04,	5.66it/s]				
429/499	0.206G	0.01907	0.007727	0.01985	2	320:
40% ####	16/40 [00:02<00:04,	5.68it/s]				
429/499	0.206G	0.01908	0.007981	0.01978	4	320:
40% ####	16/40 [00:03<00:04,	5.68it/s]				
429/499	0.206G	0.01908	0.007981	0.01978	4	320:
42% ####2	17/40 [00:03<00:04,	5.57it/s]				
429/499	0.206G	0.01917	0.008366	0.02003	4	320:

42% ####2	17/40 [00:03<00:04,	5.57it/s]				
429/499	0.206G	0.01917	0.008366	0.02003	4	320:
45% ####5	18/40 [00:03<00:03,	5.64it/s]				
429/499	0.206G	0.01874	0.008196	0.01957	1	320:
45% ####5	18/40 [00:03<00:03,	5.64it/s]				
429/499	0.206G	0.01874	0.008196	0.01957	1	320:
48% ####7	19/40 [00:03<00:03,	5.68it/s]				
429/499	0.206G	0.0188	0.008159	0.02036	2	320:
48% ####7	19/40 [00:03<00:03,	5.68it/s]				
429/499	0.206G	0.0188	0.008159	0.02036	2	320:
50% #####	20/40 [00:03<00:03,	5.57it/s]				
429/499	0.206G	0.01954	0.008456	0.02111	4	320:
50% #####	20/40 [00:03<00:03,	5.57it/s]				
429/499	0.206G	0.01954	0.008456	0.02111	4	320:
52% #####2	21/40 [00:03<00:03,	5.64it/s]				
429/499	0.206G	0.01927	0.008221	0.02089	1	320:
52% #####2	21/40 [00:03<00:03,	5.64it/s]				
429/499	0.206G	0.01927	0.008221	0.02089	1	320:
55% #####5	22/40 [00:03<00:03,	5.55it/s]				
429/499	0.206G	0.01979	0.00852	0.02131	4	320:
55% #####5	22/40 [00:04<00:03,	5.55it/s]				
429/499	0.206G	0.01979	0.00852	0.02131	4	320:
57% #####7	23/40 [00:04<00:03,	5.63it/s]				
429/499	0.206G	0.01936	0.008436	0.02115	2	320:
57% #####7	23/40 [00:04<00:03,	5.63it/s]				
429/499	0.206G	0.01936	0.008436	0.02115	2	320:
60% #####	24/40 [00:04<00:02,	5.68it/s]				
429/499	0.206G	0.01932	0.008483	0.02093	2	320:
60% #####	24/40 [00:04<00:02,	5.68it/s]				
429/499	0.206G	0.01932	0.008483	0.02093	2	320:
62% #####2	25/40 [00:04<00:02,	5.70it/s]				
429/499	0.206G	0.01915	0.00829	0.02089	1	320:
62% #####2	25/40 [00:04<00:02,	5.70it/s]				
429/499	0.206G	0.01915	0.00829	0.02089	1	320:
65% #####5	26/40 [00:04<00:02,	5.73it/s]				
429/499	0.206G	0.01905	0.008315	0.02132	2	320:
65% #####5	26/40 [00:04<00:02,	5.73it/s]				
429/499	0.206G	0.01905	0.008315	0.02132	2	320:
68% #####7	27/40 [00:04<00:02,	5.76it/s]				
429/499	0.206G	0.01895	0.008247	0.0211	2	320:
68% #####7	27/40 [00:04<00:02,	5.76it/s]				
429/499	0.206G	0.01895	0.008247	0.0211	2	320:
70% #####	28/40 [00:04<00:02,	5.75it/s]				
429/499	0.206G	0.01946	0.008228	0.0212	2	320:
70% #####	28/40 [00:05<00:02,	5.75it/s]				
429/499	0.206G	0.01946	0.008228	0.0212	2	320:
72% #####2	29/40 [00:05<00:01,	5.77it/s]				
429/499	0.206G	0.01999	0.008211	0.0214	2	320:

72%	#####2		29/40	[00:05<00:01,	5.77it/s]				
	429/499		0.206G	0.01999	0.008211	0.0214	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.63it/s]				
	429/499		0.206G	0.01963	0.008054	0.02108	1	320:	
75%	#####5		30/40	[00:05<00:01,	5.63it/s]				
	429/499		0.206G	0.01963	0.008054	0.02108	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.52it/s]				
	429/499		0.206G	0.01972	0.008188	0.02123	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.52it/s]				
	429/499		0.206G	0.01972	0.008188	0.02123	4	320:	
80%	#####		32/40	[00:05<00:01,	5.33it/s]				
	429/499		0.206G	0.0194	0.008108	0.02102	2	320:	
80%	#####		32/40	[00:05<00:01,	5.33it/s]				
	429/499		0.206G	0.0194	0.008108	0.02102	2	320:	
82%	#####2		33/40	[00:05<00:01,	5.61it/s]				
	429/499		0.206G	0.01996	0.00815	0.02093	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.61it/s]				
	429/499		0.206G	0.01996	0.00815	0.02093	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.50it/s]				
	429/499		0.206G	0.02012	0.008124	0.02127	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.50it/s]				
	429/499		0.206G	0.02012	0.008124	0.02127	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.60it/s]				
	429/499		0.206G	0.01988	0.008191	0.02107	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.60it/s]				
	429/499		0.206G	0.01988	0.008191	0.02107	2	320:	
90%	#####		36/40	[00:06<00:00,	5.66it/s]				
	429/499		0.206G	0.02001	0.008182	0.0212	1	320:	
90%	#####		36/40	[00:06<00:00,	5.66it/s]				
	429/499		0.206G	0.02001	0.008182	0.0212	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.70it/s]				
	429/499		0.206G	0.02023	0.008273	0.02126	4	320:	
92%	#####2		37/40	[00:06<00:00,	5.70it/s]				
	429/499		0.206G	0.02023	0.008273	0.02126	4	320:	
95%	#####5		38/40	[00:06<00:00,	5.58it/s]				
	429/499		0.206G	0.0202	0.008524	0.02146	4	320:	
95%	#####5		38/40	[00:06<00:00,	5.58it/s]				
	429/499		0.206G	0.0202	0.008524	0.02146	4	320:	
98%	#####7		39/40	[00:06<00:00,	5.50it/s]				
	429/499		0.206G	0.0199	0.008481	0.02127	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.50it/s]				
	429/499		0.206G	0.0199	0.008481	0.02127	2	320:	
100%	#####		40/40	[00:07<00:00,	5.72it/s]				
	429/499		0.206G	0.0199	0.008481	0.02127	2	320:	
100%	#####		40/40	[00:07<00:00,	5.64it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20	[00:00<00:00,	18.28it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00,	16.87it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	16.43it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	15.41it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.34it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.95it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	16.62it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	16.01it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	16.05it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.24it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.33it/s]		
	all	40	40	0.989	1	0.995

0.754

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
430/499	0.206G	0.01916	0.008261	0.02488	2	320:
0%	0/40	[00:00<?,	?it/s]			
430/499	0.206G	0.01916	0.008261	0.02488	2	320:
2% 2	1/40	[00:00<00:07,	4.92it/s]			
430/499	0.206G	0.02411	0.01299	0.02317	4	320:
2% 2	1/40	[00:00<00:07,	4.92it/s]			
430/499	0.206G	0.02411	0.01299	0.02317	4	320:
5% 5	2/40	[00:00<00:07,	4.92it/s]			
430/499	0.206G	0.02111	0.01255	0.01995	2	320:
5% 5	2/40	[00:00<00:07,	4.92it/s]			
430/499	0.206G	0.02111	0.01255	0.01995	2	320:
8% 7	3/40	[00:00<00:07,	4.92it/s]			
430/499	0.206G	0.01821	0.01009	0.02102	1	320:
8% 7	3/40	[00:00<00:07,	4.92it/s]			
430/499	0.206G	0.01821	0.01009	0.02102	1	320:
10% #	4/40	[00:00<00:07,	5.07it/s]			
430/499	0.206G	0.02084	0.01189	0.02107	4	320:
10% #	4/40	[00:01<00:07,	5.07it/s]			
430/499	0.206G	0.02084	0.01189	0.02107	4	320:
12% #2	5/40	[00:01<00:07,	4.73it/s]			

430/499	0.206G	0.02376	0.01297	0.0211	4	320:
12% #2	5/40 [00:01<00:07,	4.73it/s]				
430/499	0.206G	0.02376	0.01297	0.0211	4	320:
15% #5	6/40 [00:01<00:07,	4.79it/s]				
430/499	0.206G	0.02233	0.01153	0.02028	1	320:
15% #5	6/40 [00:01<00:07,	4.79it/s]				
430/499	0.206G	0.02233	0.01153	0.02028	1	320:
18% #7	7/40 [00:01<00:06,	4.79it/s]				
430/499	0.206G	0.02044	0.01038	0.02064	1	320:
18% #7	7/40 [00:01<00:06,	4.79it/s]				
430/499	0.206G	0.02044	0.01038	0.02064	1	320:
20% ##	8/40 [00:01<00:06,	4.86it/s]				
430/499	0.206G	0.01941	0.009626	0.02001	1	320:
20% ##	8/40 [00:01<00:06,	4.86it/s]				
430/499	0.206G	0.01941	0.009626	0.02001	1	320:
22% ##2	9/40 [00:01<00:06,	5.00it/s]				
430/499	0.206G	0.01852	0.00893	0.01934	1	320:
22% ##2	9/40 [00:02<00:06,	5.00it/s]				
430/499	0.206G	0.01852	0.00893	0.01934	1	320:
25% ##5	10/40 [00:02<00:05,	5.08it/s]				
430/499	0.206G	0.02019	0.009299	0.01997	4	320:
25% ##5	10/40 [00:02<00:05,	5.08it/s]				
430/499	0.206G	0.02019	0.009299	0.01997	4	320:
28% ##7	11/40 [00:02<00:05,	5.16it/s]				
430/499	0.206G	0.02334	0.008891	0.02046	2	320:
28% ##7	11/40 [00:02<00:05,	5.16it/s]				
430/499	0.206G	0.02334	0.008891	0.02046	2	320:
30% ###	12/40 [00:02<00:05,	5.20it/s]				
430/499	0.206G	0.02224	0.008443	0.02003	1	320:
30% ###	12/40 [00:02<00:05,	5.20it/s]				
430/499	0.206G	0.02224	0.008443	0.02003	1	320:
32% ###2	13/40 [00:02<00:05,	5.36it/s]				
430/499	0.206G	0.02175	0.008311	0.01973	2	320:
32% ###2	13/40 [00:02<00:05,	5.36it/s]				
430/499	0.206G	0.02175	0.008311	0.01973	2	320:
35% ###5	14/40 [00:02<00:04,	5.35it/s]				
430/499	0.206G	0.02112	0.00802	0.01943	1	320:
35% ###5	14/40 [00:02<00:04,	5.35it/s]				
430/499	0.206G	0.02112	0.00802	0.01943	1	320:
38% ###7	15/40 [00:02<00:04,	5.49it/s]				
430/499	0.206G	0.02122	0.008	0.0193	2	320:
38% ###7	15/40 [00:03<00:04,	5.49it/s]				
430/499	0.206G	0.02122	0.008	0.0193	2	320:
40% ####	16/40 [00:03<00:04,	5.31it/s]				
430/499	0.206G	0.02155	0.008091	0.0193	2	320:
40% ####	16/40 [00:03<00:04,	5.31it/s]				
430/499	0.206G	0.02155	0.008091	0.0193	2	320:
42% ####2	17/40 [00:03<00:04,	5.45it/s]				

430/499	0.206G	0.02094	0.007838	0.01898	1	320:
42% #####2	17/40 [00:03<00:04,	5.45it/s]				
430/499	0.206G	0.02094	0.007838	0.01898	1	320:
45% #####5	18/40 [00:03<00:03,	5.56it/s]				
430/499	0.206G	0.02084	0.008085	0.01908	4	320:
45% #####5	18/40 [00:03<00:03,	5.56it/s]				
430/499	0.206G	0.02084	0.008085	0.01908	4	320:
48% #####7	19/40 [00:03<00:03,	5.60it/s]				
430/499	0.206G	0.02173	0.00842	0.01909	4	320:
48% #####7	19/40 [00:03<00:03,	5.60it/s]				
430/499	0.206G	0.02173	0.00842	0.01909	4	320:
50% #####	20/40 [00:03<00:03,	5.25it/s]				
430/499	0.206G	0.02141	0.008315	0.019	2	320:
50% #####	20/40 [00:04<00:03,	5.25it/s]				
430/499	0.206G	0.02141	0.008315	0.019	2	320:
52% #####2	21/40 [00:04<00:03,	5.25it/s]				
430/499	0.206G	0.0222	0.008413	0.01892	2	320:
52% #####2	21/40 [00:04<00:03,	5.25it/s]				
430/499	0.206G	0.0222	0.008413	0.01892	2	320:
55% #####5	22/40 [00:04<00:03,	5.28it/s]				
430/499	0.206G	0.02255	0.008699	0.01937	4	320:
55% #####5	22/40 [00:04<00:03,	5.28it/s]				
430/499	0.206G	0.02255	0.008699	0.01937	4	320:
57% #####7	23/40 [00:04<00:03,	5.43it/s]				
430/499	0.206G	0.02232	0.008748	0.01908	2	320:
57% #####7	23/40 [00:04<00:03,	5.43it/s]				
430/499	0.206G	0.02232	0.008748	0.01908	2	320:
60% #####	24/40 [00:04<00:03,	5.32it/s]				
430/499	0.206G	0.02339	0.00862	0.01903	2	320:
60% #####	24/40 [00:04<00:03,	5.32it/s]				
430/499	0.206G	0.02339	0.00862	0.01903	2	320:
62% #####2	25/40 [00:04<00:02,	5.53it/s]				
430/499	0.206G	0.0233	0.008778	0.01922	4	320:
62% #####2	25/40 [00:04<00:02,	5.53it/s]				
430/499	0.206G	0.0233	0.008778	0.01922	4	320:
65% #####5	26/40 [00:04<00:02,	5.33it/s]				
430/499	0.206G	0.02327	0.008982	0.01931	4	320:
65% #####5	26/40 [00:05<00:02,	5.33it/s]				
430/499	0.206G	0.02327	0.008982	0.01931	4	320:
68% #####7	27/40 [00:05<00:02,	5.41it/s]				
430/499	0.206G	0.02307	0.0088	0.0191	1	320:
68% #####7	27/40 [00:05<00:02,	5.41it/s]				
430/499	0.206G	0.02307	0.0088	0.0191	1	320:
70% #####	28/40 [00:05<00:02,	5.57it/s]				
430/499	0.206G	0.02307	0.008955	0.01957	4	320:
70% #####	28/40 [00:05<00:02,	5.57it/s]				
430/499	0.206G	0.02307	0.008955	0.01957	4	320:
72% #####2	29/40 [00:05<00:02,	5.50it/s]				

430/499	0.206G	0.02277	0.008785	0.01964	1	320:
72% #####2	29/40 [00:05<00:02,	5.50it/s]				
430/499	0.206G	0.02277	0.008785	0.01964	1	320:
75% #####5	30/40 [00:05<00:01,	5.45it/s]				
430/499	0.206G	0.02241	0.008598	0.01967	1	320:
75% #####5	30/40 [00:05<00:01,	5.45it/s]				
430/499	0.206G	0.02241	0.008598	0.01967	1	320:
78% #####7	31/40 [00:05<00:01,	5.55it/s]				
430/499	0.206G	0.02195	0.008413	0.01959	1	320:
78% #####7	31/40 [00:06<00:01,	5.55it/s]				
430/499	0.206G	0.02195	0.008413	0.01959	1	320:
80% #####	32/40 [00:06<00:01,	5.48it/s]				
430/499	0.206G	0.02164	0.008295	0.01948	2	320:
80% #####	32/40 [00:06<00:01,	5.48it/s]				
430/499	0.206G	0.02164	0.008295	0.01948	2	320:
82% #####2	33/40 [00:06<00:01,	5.56it/s]				
430/499	0.206G	0.02139	0.008295	0.0194	2	320:
82% #####2	33/40 [00:06<00:01,	5.56it/s]				
430/499	0.206G	0.02139	0.008295	0.0194	2	320:
85% #####5	34/40 [00:06<00:01,	5.79it/s]				
430/499	0.206G	0.02102	0.00824	0.0192	1	320:
85% #####5	34/40 [00:06<00:01,	5.79it/s]				
430/499	0.206G	0.02102	0.00824	0.0192	1	320:
88% #####7	35/40 [00:06<00:00,	5.64it/s]				
430/499	0.206G	0.02119	0.00824	0.01916	2	320:
88% #####7	35/40 [00:06<00:00,	5.64it/s]				
430/499	0.206G	0.02119	0.00824	0.01916	2	320:
90% #####	36/40 [00:06<00:00,	5.38it/s]				
430/499	0.206G	0.02125	0.008218	0.01929	2	320:
90% #####	36/40 [00:06<00:00,	5.38it/s]				
430/499	0.206G	0.02125	0.008218	0.01929	2	320:
92% #####2	37/40 [00:06<00:00,	5.50it/s]				
430/499	0.206G	0.02097	0.008171	0.01928	2	320:
92% #####2	37/40 [00:07<00:00,	5.50it/s]				
430/499	0.206G	0.02097	0.008171	0.01928	2	320:
95% #####5	38/40 [00:07<00:00,	5.59it/s]				
430/499	0.206G	0.02062	0.008044	0.01919	1	320:
95% #####5	38/40 [00:07<00:00,	5.59it/s]				
430/499	0.206G	0.02062	0.008044	0.01919	1	320:
98% #####7	39/40 [00:07<00:00,	5.36it/s]				
430/499	0.206G	0.02124	0.008018	0.01922	2	320:
98% #####7	39/40 [00:07<00:00,	5.36it/s]				
430/499	0.206G	0.02124	0.008018	0.01922	2	320:
100% #####	40/40 [00:07<00:00,	5.22it/s]				
430/499	0.206G	0.02124	0.008018	0.01922	2	320:
100% #####	40/40 [00:07<00:00,	5.30it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:00, 18.21it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 16.70it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 17.40it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 17.74it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 17.07it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 17.44it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 17.70it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:00<00:00, 17.15it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	95% #####5		19/20 [00:01<00:00, 17.93it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.74it/s]			
		all	40 40	0.987	0.988	0.995

0.794

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%			0/40 [00:00<?, ?it/s]			
431/499	0.206G	0.01577	0.008053	0.0162	2	320:
0%			0/40 [00:00<?, ?it/s]			
431/499	0.206G	0.01577	0.008053	0.0162	2	320:
2% 2			1/40 [00:00<00:06, 5.81it/s]			
431/499	0.206G	0.01094	0.005501	0.01849	1	320:
2% 2			1/40 [00:00<00:06, 5.81it/s]			
431/499	0.206G	0.01094	0.005501	0.01849	1	320:
5% 5			2/40 [00:00<00:06, 5.82it/s]			
431/499	0.206G	0.02358	0.007496	0.02801	2	320:
5% 5			2/40 [00:00<00:06, 5.82it/s]			
431/499	0.206G	0.02358	0.007496	0.02801	2	320:
8% 7			3/40 [00:00<00:06, 5.77it/s]			
431/499	0.206G	0.02013	0.006631	0.02644	1	320:
8% 7			3/40 [00:00<00:06, 5.77it/s]			
431/499	0.206G	0.02013	0.006631	0.02644	1	320:
10% #			4/40 [00:00<00:06, 5.79it/s]			
431/499	0.206G	0.01768	0.005887	0.02486	1	320:
10% #			4/40 [00:00<00:06, 5.79it/s]			
431/499	0.206G	0.01768	0.005887	0.02486	1	320:
12% #2			5/40 [00:00<00:06, 5.80it/s]			
431/499	0.206G	0.01629	0.005873	0.02337	2	320:

12% #2	5/40 [00:01<00:06,	5.80it/s]				
431/499	0.206G	0.01629	0.005873	0.02337	2	320:
15% #5	6/40 [00:01<00:05,	5.80it/s]				
431/499	0.206G	0.02226	0.005802	0.02285	3	320:
15% #5	6/40 [00:01<00:05,	5.80it/s]				
431/499	0.206G	0.02226	0.005802	0.02285	3	320:
18% #7	7/40 [00:01<00:06,	5.47it/s]				
431/499	0.206G	0.02103	0.005592	0.02245	1	320:
18% #7	7/40 [00:01<00:06,	5.47it/s]				
431/499	0.206G	0.02103	0.005592	0.02245	1	320:
20% ##	8/40 [00:01<00:05,	5.57it/s]				
431/499	0.206G	0.02003	0.005513	0.02164	1	320:
20% ##	8/40 [00:01<00:05,	5.57it/s]				
431/499	0.206G	0.02003	0.005513	0.02164	1	320:
22% ##2	9/40 [00:01<00:05,	5.80it/s]				
431/499	0.206G	0.02269	0.005684	0.02197	2	320:
22% ##2	9/40 [00:01<00:05,	5.80it/s]				
431/499	0.206G	0.02269	0.005684	0.02197	2	320:
25% ##5	10/40 [00:01<00:05,	5.64it/s]				
431/499	0.206G	0.02164	0.005895	0.02158	2	320:
25% ##5	10/40 [00:01<00:05,	5.64it/s]				
431/499	0.206G	0.02164	0.005895	0.02158	2	320:
28% ##7	11/40 [00:01<00:05,	5.70it/s]				
431/499	0.206G	0.02104	0.005761	0.02104	1	320:
28% ##7	11/40 [00:02<00:05,	5.70it/s]				
431/499	0.206G	0.02104	0.005761	0.02104	1	320:
30% ###	12/40 [00:02<00:04,	5.73it/s]				
431/499	0.206G	0.02056	0.005744	0.02054	2	320:
30% ###	12/40 [00:02<00:04,	5.73it/s]				
431/499	0.206G	0.02056	0.005744	0.02054	2	320:
32% ###2	13/40 [00:02<00:04,	5.60it/s]				
431/499	0.206G	0.02192	0.005973	0.02027	2	320:
32% ###2	13/40 [00:02<00:04,	5.60it/s]				
431/499	0.206G	0.02192	0.005973	0.02027	2	320:
35% ###5	14/40 [00:02<00:04,	5.62it/s]				
431/499	0.206G	0.02101	0.005743	0.01973	1	320:
35% ###5	14/40 [00:02<00:04,	5.62it/s]				
431/499	0.206G	0.02101	0.005743	0.01973	1	320:
38% ###7	15/40 [00:02<00:04,	5.55it/s]				
431/499	0.206G	0.02022	0.005534	0.01953	1	320:
38% ###7	15/40 [00:02<00:04,	5.55it/s]				
431/499	0.206G	0.02022	0.005534	0.01953	1	320:
40% ####	16/40 [00:02<00:04,	5.63it/s]				
431/499	0.206G	0.02026	0.005745	0.02017	3	320:
40% ####	16/40 [00:02<00:04,	5.63it/s]				
431/499	0.206G	0.02026	0.005745	0.02017	3	320:
42% ####2	17/40 [00:02<00:04,	5.68it/s]				
431/499	0.206G	0.02176	0.006366	0.02062	4	320:

42% ####2	17/40 [00:03<00:04,	5.68it/s]				
431/499	0.206G	0.02176	0.006366	0.02062	4	320:
45% ####5	18/40 [00:03<00:03,	5.70it/s]				
431/499	0.206G	0.02185	0.006804	0.02058	4	320:
45% ####5	18/40 [00:03<00:03,	5.70it/s]				
431/499	0.206G	0.02185	0.006804	0.02058	4	320:
48% ####7	19/40 [00:03<00:03,	5.44it/s]				
431/499	0.206G	0.02136	0.006751	0.02028	1	320:
48% ####7	19/40 [00:03<00:03,	5.44it/s]				
431/499	0.206G	0.02136	0.006751	0.02028	1	320:
50% #####	20/40 [00:03<00:03,	5.55it/s]				
431/499	0.206G	0.02076	0.006824	0.02016	2	320:
50% #####	20/40 [00:03<00:03,	5.55it/s]				
431/499	0.206G	0.02076	0.006824	0.02016	2	320:
52% #####2	21/40 [00:03<00:03,	5.47it/s]				
431/499	0.206G	0.02017	0.006655	0.01987	1	320:
52% #####2	21/40 [00:03<00:03,	5.47it/s]				
431/499	0.206G	0.02017	0.006655	0.01987	1	320:
55% #####5	22/40 [00:03<00:03,	5.57it/s]				
431/499	0.206G	0.02044	0.00675	0.02064	2	320:
55% #####5	22/40 [00:04<00:03,	5.57it/s]				
431/499	0.206G	0.02044	0.00675	0.02064	2	320:
57% #####7	23/40 [00:04<00:03,	5.64it/s]				
431/499	0.206G	0.02027	0.006615	0.02046	1	320:
57% #####7	23/40 [00:04<00:03,	5.64it/s]				
431/499	0.206G	0.02027	0.006615	0.02046	1	320:
60% #####	24/40 [00:04<00:02,	5.67it/s]				
431/499	0.206G	0.02126	0.006708	0.02075	3	320:
60% #####	24/40 [00:04<00:02,	5.67it/s]				
431/499	0.206G	0.02126	0.006708	0.02075	3	320:
62% #####2	25/40 [00:04<00:02,	5.71it/s]				
431/499	0.206G	0.02099	0.006752	0.02046	2	320:
62% #####2	25/40 [00:04<00:02,	5.71it/s]				
431/499	0.206G	0.02099	0.006752	0.02046	2	320:
65% #####5	26/40 [00:04<00:02,	5.47it/s]				
431/499	0.206G	0.02067	0.00668	0.02038	2	320:
65% #####5	26/40 [00:04<00:02,	5.47it/s]				
431/499	0.206G	0.02067	0.00668	0.02038	2	320:
68% #####7	27/40 [00:04<00:02,	5.55it/s]				
431/499	0.206G	0.02153	0.006687	0.0202	2	320:
68% #####7	27/40 [00:04<00:02,	5.55it/s]				
431/499	0.206G	0.02153	0.006687	0.0202	2	320:
70% #####	28/40 [00:04<00:02,	5.63it/s]				
431/499	0.206G	0.02105	0.006807	0.02014	2	320:
70% #####	28/40 [00:05<00:02,	5.63it/s]				
431/499	0.206G	0.02105	0.006807	0.02014	2	320:
72% #####2	29/40 [00:05<00:01,	5.53it/s]				
431/499	0.206G	0.02156	0.00678	0.02062	3	320:

72%	#####2		29/40	[00:05<00:01,	5.53it/s]					
	431/499		0.206G	0.02156	0.00678	0.02062	3	320:		
75%	#####5		30/40	[00:05<00:01,	5.56it/s]					
	431/499		0.206G	0.02121	0.006899	0.0205	2	320:		
75%	#####5		30/40	[00:05<00:01,	5.56it/s]					
	431/499		0.206G	0.02121	0.006899	0.0205	2	320:		
78%	#####7		31/40	[00:05<00:01,	5.49it/s]					
	431/499		0.206G	0.02136	0.007219	0.02054	4	320:		
78%	#####7		31/40	[00:05<00:01,	5.49it/s]					
	431/499		0.206G	0.02136	0.007219	0.02054	4	320:		
80%	#####		32/40	[00:05<00:01,	5.34it/s]					
	431/499		0.206G	0.02096	0.007129	0.02034	1	320:		
80%	#####		32/40	[00:05<00:01,	5.34it/s]					
	431/499		0.206G	0.02096	0.007129	0.02034	1	320:		
82%	#####2		33/40	[00:05<00:01,	5.60it/s]					
	431/499		0.206G	0.02056	0.007003	0.02015	1	320:		
82%	#####2		33/40	[00:06<00:01,	5.60it/s]					
	431/499		0.206G	0.02056	0.007003	0.02015	1	320:		
85%	#####5		34/40	[00:06<00:01,	5.82it/s]					
	431/499		0.206G	0.02054	0.007194	0.02008	4	320:		
85%	#####5		34/40	[00:06<00:01,	5.82it/s]					
	431/499		0.206G	0.02054	0.007194	0.02008	4	320:		
88%	#####7		35/40	[00:06<00:00,	5.55it/s]					
	431/499		0.206G	0.0202	0.007107	0.01995	1	320:		
88%	#####7		35/40	[00:06<00:00,	5.55it/s]					
	431/499		0.206G	0.0202	0.007107	0.01995	1	320:		
90%	#####		36/40	[00:06<00:00,	5.57it/s]					
	431/499		0.206G	0.02004	0.007115	0.01982	2	320:		
90%	#####		36/40	[00:06<00:00,	5.57it/s]					
	431/499		0.206G	0.02004	0.007115	0.01982	2	320:		
92%	#####2		37/40	[00:06<00:00,	5.36it/s]					
	431/499		0.206G	0.02006	0.007188	0.01985	2	320:		
92%	#####2		37/40	[00:06<00:00,	5.36it/s]					
	431/499		0.206G	0.02006	0.007188	0.01985	2	320:		
95%	#####5		38/40	[00:06<00:00,	5.09it/s]					
	431/499		0.206G	0.0197	0.007113	0.01996	1	320:		
95%	#####5		38/40	[00:07<00:00,	5.09it/s]					
	431/499		0.206G	0.0197	0.007113	0.01996	1	320:		
98%	#####7		39/40	[00:07<00:00,	5.16it/s]					
	431/499		0.206G	0.01971	0.007446	0.01998	4	320:		
98%	#####7		39/40	[00:07<00:00,	5.16it/s]					
	431/499		0.206G	0.01971	0.007446	0.01998	4	320:		
100%	#####		40/40	[00:07<00:00,	4.72it/s]					
	431/499		0.206G	0.01971	0.007446	0.01998	4	320:		
100%	#####		40/40	[00:07<00:00,	5.50it/s]					

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 11.79it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 13.95it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 14.07it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 13.39it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 13.67it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 13.85it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:01<00:00, 13.40it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:01<00:00, 14.22it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90% #####		18/20	[00:01<00:00, 14.73it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 15.09it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 14.19it/s]			
	all	40	40	0.987	0.988	0.995

0.794

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
432/499	0.206G	0.01588	0.007378	0.01957	2	320:
0%		0/40	[00:00<?, ?it/s]			
432/499	0.206G	0.01588	0.007378	0.01957	2	320:
2% 2		1/40	[00:00<00:06, 5.82it/s]			
432/499	0.206G	0.01233	0.005021	0.01686	1	320:
2% 2		1/40	[00:00<00:06, 5.82it/s]			
432/499	0.206G	0.01233	0.005021	0.01686	1	320:
5% 5		2/40	[00:00<00:06, 5.78it/s]			
432/499	0.206G	0.01254	0.005209	0.01705	2	320:
5% 5		2/40	[00:00<00:06, 5.78it/s]			
432/499	0.206G	0.01254	0.005209	0.01705	2	320:
8% 7		3/40	[00:00<00:06, 5.80it/s]			
432/499	0.206G	0.02306	0.006582	0.01728	2	320:
8% 7		3/40	[00:00<00:06, 5.80it/s]			
432/499	0.206G	0.02306	0.006582	0.01728	2	320:
10% #		4/40	[00:00<00:07, 4.92it/s]			
432/499	0.206G	0.02019	0.006173	0.01653	1	320:
10% #		4/40	[00:00<00:07, 4.92it/s]			
432/499	0.206G	0.02019	0.006173	0.01653	1	320:
12% #2		5/40	[00:00<00:06, 5.21it/s]			

432/499	0.206G	0.01898	0.007102	0.0168	4	320:
12% #2	5/40 [00:01<00:06,	5.21it/s]				
432/499	0.206G	0.01898	0.007102	0.0168	4	320:
15% #5	6/40 [00:01<00:06,	5.40it/s]				
432/499	0.206G	0.02002	0.007064	0.01738	2	320:
15% #5	6/40 [00:01<00:06,	5.40it/s]				
432/499	0.206G	0.02002	0.007064	0.01738	2	320:
18% #7	7/40 [00:01<00:06,	5.38it/s]				
432/499	0.206G	0.02034	0.007475	0.01725	2	320:
18% #7	7/40 [00:01<00:06,	5.38it/s]				
432/499	0.206G	0.02034	0.007475	0.01725	2	320:
20% ##	8/40 [00:01<00:05,	5.34it/s]				
432/499	0.206G	0.02074	0.007823	0.01851	3	320:
20% ##	8/40 [00:01<00:05,	5.34it/s]				
432/499	0.206G	0.02074	0.007823	0.01851	3	320:
22% ##2	9/40 [00:01<00:05,	5.34it/s]				
432/499	0.206G	0.01981	0.007699	0.01816	2	320:
22% ##2	9/40 [00:01<00:05,	5.34it/s]				
432/499	0.206G	0.01981	0.007699	0.01816	2	320:
25% ##5	10/40 [00:01<00:05,	5.32it/s]				
432/499	0.206G	0.01928	0.007711	0.01775	2	320:
25% ##5	10/40 [00:02<00:05,	5.32it/s]				
432/499	0.206G	0.01928	0.007711	0.01775	2	320:
28% ##7	11/40 [00:02<00:05,	5.46it/s]				
432/499	0.206G	0.01961	0.008313	0.01775	4	320:
28% ##7	11/40 [00:02<00:05,	5.46it/s]				
432/499	0.206G	0.01961	0.008313	0.01775	4	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
432/499	0.206G	0.019	0.008134	0.01783	2	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
432/499	0.206G	0.019	0.008134	0.01783	2	320:
32% ###2	13/40 [00:02<00:04,	5.52it/s]				
432/499	0.206G	0.02184	0.007917	0.01791	2	320:
32% ###2	13/40 [00:02<00:04,	5.52it/s]				
432/499	0.206G	0.02184	0.007917	0.01791	2	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
432/499	0.206G	0.02336	0.007892	0.0178	2	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
432/499	0.206G	0.02336	0.007892	0.0178	2	320:
38% ###7	15/40 [00:02<00:04,	5.51it/s]				
432/499	0.206G	0.02296	0.007878	0.01782	2	320:
38% ###7	15/40 [00:02<00:04,	5.51it/s]				
432/499	0.206G	0.02296	0.007878	0.01782	2	320:
40% ####	16/40 [00:02<00:04,	5.59it/s]				
432/499	0.206G	0.02238	0.007852	0.01778	2	320:
40% ####	16/40 [00:03<00:04,	5.59it/s]				
432/499	0.206G	0.02238	0.007852	0.01778	2	320:
42% ####2	17/40 [00:03<00:04,	5.66it/s]				

432/499	0.206G	0.02207	0.008234	0.01793	4	320:
42% #####2	17/40 [00:03<00:04,	5.66it/s]				
432/499	0.206G	0.02207	0.008234	0.01793	4	320:
45% #####5	18/40 [00:03<00:03,	5.70it/s]				
432/499	0.206G	0.02289	0.008807	0.01846	3	320:
45% #####5	18/40 [00:03<00:03,	5.70it/s]				
432/499	0.206G	0.02289	0.008807	0.01846	3	320:
48% #####7	19/40 [00:03<00:03,	5.35it/s]				
432/499	0.206G	0.02352	0.009167	0.01854	4	320:
48% #####7	19/40 [00:03<00:03,	5.35it/s]				
432/499	0.206G	0.02352	0.009167	0.01854	4	320:
50% #####	20/40 [00:03<00:03,	5.44it/s]				
432/499	0.206G	0.02307	0.009014	0.01854	1	320:
50% #####	20/40 [00:03<00:03,	5.44it/s]				
432/499	0.206G	0.02307	0.009014	0.01854	1	320:
52% #####2	21/40 [00:03<00:03,	5.49it/s]				
432/499	0.206G	0.0228	0.009381	0.01866	4	320:
52% #####2	21/40 [00:04<00:03,	5.49it/s]				
432/499	0.206G	0.0228	0.009381	0.01866	4	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
432/499	0.206G	0.02255	0.009306	0.01859	2	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
432/499	0.206G	0.02255	0.009306	0.01859	2	320:
57% #####7	23/40 [00:04<00:03,	5.34it/s]				
432/499	0.206G	0.02241	0.009083	0.0185	1	320:
57% #####7	23/40 [00:04<00:03,	5.34it/s]				
432/499	0.206G	0.02241	0.009083	0.0185	1	320:
60% #####	24/40 [00:04<00:02,	5.47it/s]				
432/499	0.206G	0.02201	0.008899	0.01851	1	320:
60% #####	24/40 [00:04<00:02,	5.47it/s]				
432/499	0.206G	0.02201	0.008899	0.01851	1	320:
62% #####2	25/40 [00:04<00:02,	5.55it/s]				
432/499	0.206G	0.02146	0.008691	0.0183	1	320:
62% #####2	25/40 [00:04<00:02,	5.55it/s]				
432/499	0.206G	0.02146	0.008691	0.0183	1	320:
65% #####5	26/40 [00:04<00:02,	5.48it/s]				
432/499	0.206G	0.02214	0.008834	0.01841	4	320:
65% #####5	26/40 [00:04<00:02,	5.48it/s]				
432/499	0.206G	0.02214	0.008834	0.01841	4	320:
68% #####7	27/40 [00:04<00:02,	5.58it/s]				
432/499	0.206G	0.02213	0.008791	0.01842	2	320:
68% #####7	27/40 [00:05<00:02,	5.58it/s]				
432/499	0.206G	0.02213	0.008791	0.01842	2	320:
70% #####	28/40 [00:05<00:02,	5.61it/s]				
432/499	0.206G	0.02183	0.008809	0.01902	4	320:
70% #####	28/40 [00:05<00:02,	5.61it/s]				
432/499	0.206G	0.02183	0.008809	0.01902	4	320:
72% #####2	29/40 [00:05<00:01,	5.67it/s]				

432/499	0.206G	0.0214	0.008754	0.01889	2	320:
72% #####2	29/40 [00:05<00:01,	5.67it/s]				
432/499	0.206G	0.0214	0.008754	0.01889	2	320:
75% #####5	30/40 [00:05<00:01,	5.71it/s]				
432/499	0.206G	0.02096	0.008589	0.01881	1	320:
75% #####5	30/40 [00:05<00:01,	5.71it/s]				
432/499	0.206G	0.02096	0.008589	0.01881	1	320:
78% #####7	31/40 [00:05<00:01,	5.74it/s]				
432/499	0.206G	0.02053	0.008463	0.01882	1	320:
78% #####7	31/40 [00:05<00:01,	5.74it/s]				
432/499	0.206G	0.02053	0.008463	0.01882	1	320:
80% #####	32/40 [00:05<00:01,	5.77it/s]				
432/499	0.206G	0.02082	0.008635	0.01895	4	320:
80% #####	32/40 [00:05<00:01,	5.77it/s]				
432/499	0.206G	0.02082	0.008635	0.01895	4	320:
82% #####2	33/40 [00:05<00:01,	5.78it/s]				
432/499	0.206G	0.02173	0.008526	0.0189	2	320:
82% #####2	33/40 [00:06<00:01,	5.78it/s]				
432/499	0.206G	0.02173	0.008526	0.0189	2	320:
85% #####5	34/40 [00:06<00:01,	5.64it/s]				
432/499	0.206G	0.02213	0.008582	0.01921	2	320:
85% #####5	34/40 [00:06<00:01,	5.64it/s]				
432/499	0.206G	0.02213	0.008582	0.01921	2	320:
88% #####7	35/40 [00:06<00:00,	5.54it/s]				
432/499	0.206G	0.0218	0.008574	0.01908	2	320:
88% #####7	35/40 [00:06<00:00,	5.54it/s]				
432/499	0.206G	0.0218	0.008574	0.01908	2	320:
90% #####	36/40 [00:06<00:00,	5.62it/s]				
432/499	0.206G	0.02182	0.008648	0.01914	4	320:
90% #####	36/40 [00:06<00:00,	5.62it/s]				
432/499	0.206G	0.02182	0.008648	0.01914	4	320:
92% #####2	37/40 [00:06<00:00,	5.37it/s]				
432/499	0.206G	0.02153	0.008518	0.01902	1	320:
92% #####2	37/40 [00:06<00:00,	5.37it/s]				
432/499	0.206G	0.02153	0.008518	0.01902	1	320:
95% #####5	38/40 [00:06<00:00,	5.50it/s]				
432/499	0.206G	0.02134	0.008473	0.01898	2	320:
95% #####5	38/40 [00:07<00:00,	5.50it/s]				
432/499	0.206G	0.02134	0.008473	0.01898	2	320:
98% #####7	39/40 [00:07<00:00,	5.59it/s]				
432/499	0.206G	0.02139	0.008574	0.01919	4	320:
98% #####7	39/40 [00:07<00:00,	5.59it/s]				
432/499	0.206G	0.02139	0.008574	0.01919	4	320:
100% #####	40/40 [00:07<00:00,	5.49it/s]				
432/499	0.206G	0.02139	0.008574	0.01919	4	320:
100% #####	40/40 [00:07<00:00,	5.51it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:01, 14.22it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 16.31it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 17.19it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 17.42it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 17.72it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 17.88it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 18.01it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:00<00:00, 18.10it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 18.13it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 18.17it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.71it/s]			
		all	40 40	0.982	0.987	0.995
0.815						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
433/499	0.206G	0.01083	0.005859	0.01751	2	320:
0%						
433/499	0.206G	0.01083	0.005859	0.01751	2	320:
2% 2						
433/499	0.206G	0.009946	0.004839	0.01738	1	320:
2% 2						
433/499	0.206G	0.009946	0.004839	0.01738	1	320:
5% 5						
433/499	0.206G	0.01121	0.0046	0.01873	1	320:
5% 5						
433/499	0.206G	0.01121	0.0046	0.01873	1	320:
8% 7						
433/499	0.206G	0.01084	0.004769	0.0181	2	320:
8% 7						
433/499	0.206G	0.01084	0.004769	0.0181	2	320:
10% #						
433/499	0.206G	0.01802	0.005279	0.01841	2	320:
10% #						
433/499	0.206G	0.01802	0.005279	0.01841	2	320:

12% #2	5/40 [00:00<00:06,	5.42it/s]				
433/499	0.206G	0.0164	0.004843	0.01825	1	320:
12% #2	5/40 [00:01<00:06,	5.42it/s]				
433/499	0.206G	0.0164	0.004843	0.01825	1	320:
15% #5	6/40 [00:01<00:06,	5.52it/s]				
433/499	0.206G	0.01828	0.00639	0.01825	4	320:
15% #5	6/40 [00:01<00:06,	5.52it/s]				
433/499	0.206G	0.01828	0.00639	0.01825	4	320:
18% #7	7/40 [00:01<00:05,	5.61it/s]				
433/499	0.206G	0.01707	0.006756	0.01851	2	320:
18% #7	7/40 [00:01<00:05,	5.61it/s]				
433/499	0.206G	0.01707	0.006756	0.01851	2	320:
20% ##	8/40 [00:01<00:05,	5.63it/s]				
433/499	0.206G	0.01671	0.006634	0.01807	1	320:
20% ##	8/40 [00:01<00:05,	5.63it/s]				
433/499	0.206G	0.01671	0.006634	0.01807	1	320:
22% ##2	9/40 [00:01<00:05,	5.72it/s]				
433/499	0.206G	0.01788	0.007027	0.01794	4	320:
22% ##2	9/40 [00:01<00:05,	5.72it/s]				
433/499	0.206G	0.01788	0.007027	0.01794	4	320:
25% ##5	10/40 [00:01<00:05,	5.45it/s]				
433/499	0.206G	0.01741	0.007123	0.0176	2	320:
25% ##5	10/40 [00:01<00:05,	5.45it/s]				
433/499	0.206G	0.01741	0.007123	0.0176	2	320:
28% ##7	11/40 [00:01<00:05,	5.71it/s]				
433/499	0.206G	0.0168	0.007004	0.01728	2	320:
28% ##7	11/40 [00:02<00:05,	5.71it/s]				
433/499	0.206G	0.0168	0.007004	0.01728	2	320:
30% ###	12/40 [00:02<00:04,	5.72it/s]				
433/499	0.206G	0.0173	0.006737	0.01738	1	320:
30% ###	12/40 [00:02<00:04,	5.72it/s]				
433/499	0.206G	0.0173	0.006737	0.01738	1	320:
32% ###2	13/40 [00:02<00:04,	5.75it/s]				
433/499	0.206G	0.01765	0.006771	0.01848	2	320:
32% ###2	13/40 [00:02<00:04,	5.75it/s]				
433/499	0.206G	0.01765	0.006771	0.01848	2	320:
35% ###5	14/40 [00:02<00:04,	5.77it/s]				
433/499	0.206G	0.01707	0.006682	0.01809	2	320:
35% ###5	14/40 [00:02<00:04,	5.77it/s]				
433/499	0.206G	0.01707	0.006682	0.01809	2	320:
38% ###7	15/40 [00:02<00:04,	5.78it/s]				
433/499	0.206G	0.01663	0.006626	0.01804	2	320:
38% ###7	15/40 [00:02<00:04,	5.78it/s]				
433/499	0.206G	0.01663	0.006626	0.01804	2	320:
40% ####	16/40 [00:02<00:04,	5.79it/s]				
433/499	0.206G	0.017	0.006789	0.01779	1	320:
40% ####	16/40 [00:02<00:04,	5.79it/s]				
433/499	0.206G	0.017	0.006789	0.01779	1	320:

42% ####2	17/40 [00:02<00:04,	5.65it/s]				
433/499	0.206G	0.01658	0.006564	0.01766	1	320:
42% ####2	17/40 [00:03<00:04,	5.65it/s]				
433/499	0.206G	0.01658	0.006564	0.01766	1	320:
45% ####5	18/40 [00:03<00:03,	5.68it/s]				
433/499	0.206G	0.01743	0.006896	0.01804	4	320:
45% ####5	18/40 [00:03<00:03,	5.68it/s]				
433/499	0.206G	0.01743	0.006896	0.01804	4	320:
48% ####7	19/40 [00:03<00:03,	5.72it/s]				
433/499	0.206G	0.01919	0.006893	0.01819	2	320:
48% ####7	19/40 [00:03<00:03,	5.72it/s]				
433/499	0.206G	0.01919	0.006893	0.01819	2	320:
50% #####	20/40 [00:03<00:03,	5.30it/s]				
433/499	0.206G	0.0195	0.007039	0.01881	2	320:
50% #####	20/40 [00:03<00:03,	5.30it/s]				
433/499	0.206G	0.0195	0.007039	0.01881	2	320:
52% ####2	21/40 [00:03<00:03,	5.44it/s]				
433/499	0.206G	0.02088	0.007275	0.01868	2	320:
52% ####2	21/40 [00:03<00:03,	5.44it/s]				
433/499	0.206G	0.02088	0.007275	0.01868	2	320:
55% ####5	22/40 [00:03<00:03,	5.55it/s]				
433/499	0.206G	0.02231	0.007147	0.0186	2	320:
55% ####5	22/40 [00:04<00:03,	5.55it/s]				
433/499	0.206G	0.02231	0.007147	0.0186	2	320:
57% ####7	23/40 [00:04<00:03,	5.24it/s]				
433/499	0.206G	0.0222	0.007473	0.0188	4	320:
57% ####7	23/40 [00:04<00:03,	5.24it/s]				
433/499	0.206G	0.0222	0.007473	0.0188	4	320:
60% #####	24/40 [00:04<00:03,	5.22it/s]				
433/499	0.206G	0.02169	0.007467	0.01862	2	320:
60% #####	24/40 [00:04<00:03,	5.22it/s]				
433/499	0.206G	0.02169	0.007467	0.01862	2	320:
62% ####2	25/40 [00:04<00:02,	5.13it/s]				
433/499	0.206G	0.02238	0.007735	0.01869	4	320:
62% ####2	25/40 [00:04<00:02,	5.13it/s]				
433/499	0.206G	0.02238	0.007735	0.01869	4	320:
65% ####5	26/40 [00:04<00:02,	5.05it/s]				
433/499	0.206G	0.02205	0.007737	0.01859	2	320:
65% ####5	26/40 [00:04<00:02,	5.05it/s]				
433/499	0.206G	0.02205	0.007737	0.01859	2	320:
68% ####7	27/40 [00:04<00:02,	4.79it/s]				
433/499	0.206G	0.02173	0.007586	0.01853	1	320:
68% ####7	27/40 [00:05<00:02,	4.79it/s]				
433/499	0.206G	0.02173	0.007586	0.01853	1	320:
70% #####	28/40 [00:05<00:02,	4.61it/s]				
433/499	0.206G	0.02143	0.007442	0.01856	1	320:
70% #####	28/40 [00:05<00:02,	4.61it/s]				
433/499	0.206G	0.02143	0.007442	0.01856	1	320:

72%	#####2		29/40	[00:05<00:02,	4.81it/s]					
	433/499			0.206G	0.02113	0.007282	0.0184	1	320:	
72%	#####2		29/40	[00:05<00:02,	4.81it/s]					
	433/499			0.206G	0.02113	0.007282	0.0184	1	320:	
75%	#####5		30/40	[00:05<00:02,	4.96it/s]					
	433/499			0.206G	0.02115	0.007451	0.01875	3	320:	
75%	#####5		30/40	[00:05<00:02,	4.96it/s]					
	433/499			0.206G	0.02115	0.007451	0.01875	3	320:	
78%	#####7		31/40	[00:05<00:01,	4.71it/s]					
	433/499			0.206G	0.02082	0.007392	0.01872	2	320:	
78%	#####7		31/40	[00:06<00:01,	4.71it/s]					
	433/499			0.206G	0.02082	0.007392	0.01872	2	320:	
80%	#####		32/40	[00:06<00:01,	4.77it/s]					
	433/499			0.206G	0.02041	0.007289	0.01864	1	320:	
80%	#####		32/40	[00:06<00:01,	4.77it/s]					
	433/499			0.206G	0.02041	0.007289	0.01864	1	320:	
82%	#####2		33/40	[00:06<00:01,	4.93it/s]					
	433/499			0.206G	0.02043	0.007367	0.01881	4	320:	
82%	#####2		33/40	[00:06<00:01,	4.93it/s]					
	433/499			0.206G	0.02043	0.007367	0.01881	4	320:	
85%	#####5		34/40	[00:06<00:01,	4.80it/s]					
	433/499			0.206G	0.02138	0.007435	0.01877	2	320:	
85%	#####5		34/40	[00:06<00:01,	4.80it/s]					
	433/499			0.206G	0.02138	0.007435	0.01877	2	320:	
88%	#####7		35/40	[00:06<00:01,	4.83it/s]					
	433/499			0.206G	0.02155	0.007716	0.01873	2	320:	
88%	#####7		35/40	[00:06<00:01,	4.83it/s]					
	433/499			0.206G	0.02155	0.007716	0.01873	2	320:	
90%	#####		36/40	[00:06<00:00,	4.85it/s]					
	433/499			0.206G	0.02156	0.007652	0.01873	1	320:	
90%	#####		36/40	[00:07<00:00,	4.85it/s]					
	433/499			0.206G	0.02156	0.007652	0.01873	1	320:	
92%	#####2		37/40	[00:07<00:00,	4.98it/s]					
	433/499			0.206G	0.02133	0.007594	0.0187	2	320:	
92%	#####2		37/40	[00:07<00:00,	4.98it/s]					
	433/499			0.206G	0.02133	0.007594	0.0187	2	320:	
95%	#####5		38/40	[00:07<00:00,	5.21it/s]					
	433/499			0.206G	0.02126	0.007765	0.01886	4	320:	
95%	#####5		38/40	[00:07<00:00,	5.21it/s]					
	433/499			0.206G	0.02126	0.007765	0.01886	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.22it/s]					
	433/499			0.206G	0.02106	0.007712	0.01874	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.22it/s]					
	433/499			0.206G	0.02106	0.007712	0.01874	2	320:	
100%	#####		40/40	[00:07<00:00,	5.38it/s]					
	433/499			0.206G	0.02106	0.007712	0.01874	2	320:	
100%	#####		40/40	[00:07<00:00,	5.30it/s]					

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 16.00it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 15.93it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 17.08it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 17.53it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 17.80it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 17.96it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 17.84it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:00<00:00, 18.46it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 17.69it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 17.76it/s]			
	all	40	40	0.983	0.986	0.995

0.792

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
434/499	0.206G	0.01329	0.004815	0.01074	1	320:
0%		0/40	[00:00<?, ?it/s]			
434/499	0.206G	0.01329	0.004815	0.01074	1	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
434/499	0.206G	0.01286	0.003885	0.01804	1	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
434/499	0.206G	0.01286	0.003885	0.01804	1	320:
5% 5		2/40	[00:00<00:06, 6.00it/s]			
434/499	0.206G	0.02094	0.004456	0.01892	2	320:
5% 5		2/40	[00:00<00:06, 6.00it/s]			
434/499	0.206G	0.02094	0.004456	0.01892	2	320:
8% 7		3/40	[00:00<00:06, 5.92it/s]			
434/499	0.206G	0.02404	0.005987	0.02477	2	320:
8% 7		3/40	[00:00<00:06, 5.92it/s]			
434/499	0.206G	0.02404	0.005987	0.02477	2	320:
10% #		4/40	[00:00<00:06, 5.67it/s]			
434/499	0.206G	0.0226	0.006587	0.0252	2	320:
10% #		4/40	[00:00<00:06, 5.67it/s]			
434/499	0.206G	0.0226	0.006587	0.0252	2	320:
12% #2		5/40	[00:00<00:06, 5.70it/s]			

434/499	0.206G	0.02178	0.007788	0.02624	4	320:
12% #2	5/40 [00:01<00:06,	5.70it/s]				
434/499	0.206G	0.02178	0.007788	0.02624	4	320:
15% #5	6/40 [00:01<00:06,	5.57it/s]				
434/499	0.206G	0.02453	0.008929	0.02677	4	320:
15% #5	6/40 [00:01<00:06,	5.57it/s]				
434/499	0.206G	0.02453	0.008929	0.02677	4	320:
18% #7	7/40 [00:01<00:05,	5.60it/s]				
434/499	0.206G	0.02291	0.009144	0.02534	1	320:
18% #7	7/40 [00:01<00:05,	5.60it/s]				
434/499	0.206G	0.02291	0.009144	0.02534	1	320:
20% ##	8/40 [00:01<00:05,	5.55it/s]				
434/499	0.206G	0.02097	0.008413	0.02403	1	320:
20% ##	8/40 [00:01<00:05,	5.55it/s]				
434/499	0.206G	0.02097	0.008413	0.02403	1	320:
22% ##2	9/40 [00:01<00:05,	5.63it/s]				
434/499	0.206G	0.02051	0.008001	0.02347	1	320:
22% ##2	9/40 [00:01<00:05,	5.63it/s]				
434/499	0.206G	0.02051	0.008001	0.02347	1	320:
25% ##5	10/40 [00:01<00:05,	5.69it/s]				
434/499	0.206G	0.01994	0.008373	0.02362	4	320:
25% ##5	10/40 [00:01<00:05,	5.69it/s]				
434/499	0.206G	0.01994	0.008373	0.02362	4	320:
28% ##7	11/40 [00:01<00:05,	5.56it/s]				
434/499	0.206G	0.02033	0.008397	0.02313	2	320:
28% ##7	11/40 [00:02<00:05,	5.56it/s]				
434/499	0.206G	0.02033	0.008397	0.02313	2	320:
30% ###	12/40 [00:02<00:05,	5.49it/s]				
434/499	0.206G	0.02278	0.008356	0.02258	2	320:
30% ###	12/40 [00:02<00:05,	5.49it/s]				
434/499	0.206G	0.02278	0.008356	0.02258	2	320:
32% ###2	13/40 [00:02<00:04,	5.44it/s]				
434/499	0.206G	0.02246	0.008307	0.02239	2	320:
32% ###2	13/40 [00:02<00:04,	5.44it/s]				
434/499	0.206G	0.02246	0.008307	0.02239	2	320:
35% ###5	14/40 [00:02<00:04,	5.52it/s]				
434/499	0.206G	0.02403	0.008378	0.02194	3	320:
35% ###5	14/40 [00:02<00:04,	5.52it/s]				
434/499	0.206G	0.02403	0.008378	0.02194	3	320:
38% ###7	15/40 [00:02<00:04,	5.46it/s]				
434/499	0.206G	0.02339	0.008244	0.02176	2	320:
38% ###7	15/40 [00:02<00:04,	5.46it/s]				
434/499	0.206G	0.02339	0.008244	0.02176	2	320:
40% ####	16/40 [00:02<00:04,	5.42it/s]				
434/499	0.206G	0.02292	0.008645	0.02216	4	320:
40% ####	16/40 [00:03<00:04,	5.42it/s]				
434/499	0.206G	0.02292	0.008645	0.02216	4	320:
42% ####2	17/40 [00:03<00:04,	5.52it/s]				

434/499	0.206G	0.0225	0.008958	0.02214	4	320:
42% #####2	17/40 [00:03<00:04,	5.52it/s]				
434/499	0.206G	0.0225	0.008958	0.02214	4	320:
45% #####5	18/40 [00:03<00:03,	5.61it/s]				
434/499	0.206G	0.02175	0.00867	0.0218	1	320:
45% #####5	18/40 [00:03<00:03,	5.61it/s]				
434/499	0.206G	0.02175	0.00867	0.0218	1	320:
48% #####7	19/40 [00:03<00:03,	5.67it/s]				
434/499	0.206G	0.02307	0.00851	0.02154	2	320:
48% #####7	19/40 [00:03<00:03,	5.67it/s]				
434/499	0.206G	0.02307	0.00851	0.02154	2	320:
50% #####	20/40 [00:03<00:03,	5.55it/s]				
434/499	0.206G	0.02263	0.008268	0.02164	1	320:
50% #####	20/40 [00:03<00:03,	5.55it/s]				
434/499	0.206G	0.02263	0.008268	0.02164	1	320:
52% #####2	21/40 [00:03<00:03,	5.48it/s]				
434/499	0.206G	0.02224	0.008128	0.02132	1	320:
52% #####2	21/40 [00:03<00:03,	5.48it/s]				
434/499	0.206G	0.02224	0.008128	0.02132	1	320:
55% #####5	22/40 [00:03<00:03,	5.57it/s]				
434/499	0.206G	0.0224	0.008349	0.02148	4	320:
55% #####5	22/40 [00:04<00:03,	5.57it/s]				
434/499	0.206G	0.0224	0.008349	0.02148	4	320:
57% #####7	23/40 [00:04<00:03,	5.50it/s]				
434/499	0.206G	0.02326	0.008352	0.02125	2	320:
57% #####7	23/40 [00:04<00:03,	5.50it/s]				
434/499	0.206G	0.02326	0.008352	0.02125	2	320:
60% #####	24/40 [00:04<00:02,	5.59it/s]				
434/499	0.206G	0.02276	0.008407	0.0211	4	320:
60% #####	24/40 [00:04<00:02,	5.59it/s]				
434/499	0.206G	0.02276	0.008407	0.0211	4	320:
62% #####2	25/40 [00:04<00:02,	5.66it/s]				
434/499	0.206G	0.02311	0.008927	0.02126	4	320:
62% #####2	25/40 [00:04<00:02,	5.66it/s]				
434/499	0.206G	0.02311	0.008927	0.02126	4	320:
65% #####5	26/40 [00:04<00:02,	5.68it/s]				
434/499	0.206G	0.02253	0.008807	0.02112	2	320:
65% #####5	26/40 [00:04<00:02,	5.68it/s]				
434/499	0.206G	0.02253	0.008807	0.02112	2	320:
68% #####7	27/40 [00:04<00:02,	5.72it/s]				
434/499	0.206G	0.02244	0.009021	0.02122	4	320:
68% #####7	27/40 [00:05<00:02,	5.72it/s]				
434/499	0.206G	0.02244	0.009021	0.02122	4	320:
70% #####	28/40 [00:05<00:02,	5.60it/s]				
434/499	0.206G	0.02216	0.008826	0.02094	1	320:
70% #####	28/40 [00:05<00:02,	5.60it/s]				
434/499	0.206G	0.02216	0.008826	0.02094	1	320:
72% #####2	29/40 [00:05<00:01,	5.64it/s]				

434/499	0.206G	0.02239	0.008992	0.02162	2	320:
72% #####2	29/40 [00:05<00:01,	5.64it/s]				
434/499	0.206G	0.02239	0.008992	0.02162	2	320:
75% #####5	30/40 [00:05<00:01,	5.40it/s]				
434/499	0.206G	0.02197	0.008867	0.0214	1	320:
75% #####5	30/40 [00:05<00:01,	5.40it/s]				
434/499	0.206G	0.02197	0.008867	0.0214	1	320:
78% #####7	31/40 [00:05<00:01,	5.66it/s]				
434/499	0.206G	0.02164	0.008772	0.02119	1	320:
78% #####7	31/40 [00:05<00:01,	5.66it/s]				
434/499	0.206G	0.02164	0.008772	0.02119	1	320:
80% #####	32/40 [00:05<00:01,	5.70it/s]				
434/499	0.206G	0.02124	0.008582	0.02096	1	320:
80% #####	32/40 [00:05<00:01,	5.70it/s]				
434/499	0.206G	0.02124	0.008582	0.02096	1	320:
82% #####2	33/40 [00:05<00:01,	5.73it/s]				
434/499	0.206G	0.02202	0.008537	0.02104	2	320:
82% #####2	33/40 [00:06<00:01,	5.73it/s]				
434/499	0.206G	0.02202	0.008537	0.02104	2	320:
85% #####5	34/40 [00:06<00:01,	5.46it/s]				
434/499	0.206G	0.02176	0.008509	0.02083	2	320:
85% #####5	34/40 [00:06<00:01,	5.46it/s]				
434/499	0.206G	0.02176	0.008509	0.02083	2	320:
88% #####7	35/40 [00:06<00:00,	5.55it/s]				
434/499	0.206G	0.02213	0.008494	0.02086	4	320:
88% #####7	35/40 [00:06<00:00,	5.55it/s]				
434/499	0.206G	0.02213	0.008494	0.02086	4	320:
90% #####	36/40 [00:06<00:00,	5.34it/s]				
434/499	0.206G	0.02187	0.00835	0.02066	1	320:
90% #####	36/40 [00:06<00:00,	5.34it/s]				
434/499	0.206G	0.02187	0.00835	0.02066	1	320:
92% #####2	37/40 [00:06<00:00,	5.46it/s]				
434/499	0.206G	0.02163	0.008403	0.02051	2	320:
92% #####2	37/40 [00:06<00:00,	5.46it/s]				
434/499	0.206G	0.02163	0.008403	0.02051	2	320:
95% #####5	38/40 [00:06<00:00,	5.56it/s]				
434/499	0.206G	0.02148	0.008371	0.02048	2	320:
95% #####5	38/40 [00:06<00:00,	5.56it/s]				
434/499	0.206G	0.02148	0.008371	0.02048	2	320:
98% #####7	39/40 [00:06<00:00,	5.49it/s]				
434/499	0.206G	0.02153	0.008464	0.02066	2	320:
98% #####7	39/40 [00:07<00:00,	5.49it/s]				
434/499	0.206G	0.02153	0.008464	0.02066	2	320:
100% #####	40/40 [00:07<00:00,	5.36it/s]				
434/499	0.206G	0.02153	0.008464	0.02066	2	320:
100% #####	40/40 [00:07<00:00,	5.56it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:00, 18.28it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 16.87it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 17.49it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 16.85it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 17.25it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 17.58it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 17.81it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:00<00:00, 17.95it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 17.86it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 18.11it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.72it/s]			
		all	40 40	0.983	0.986	0.995
0.792						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
435/499	0.206G	0.006807	0.00247	0.01523	1	320:
0%						
435/499	0.206G	0.006807	0.00247	0.01523	1	320:
2% 2						
435/499	0.206G	0.01457	0.004302	0.0118	2	320:
2% 2						
435/499	0.206G	0.01457	0.004302	0.0118	2	320:
5% 5						
435/499	0.206G	0.0136	0.003964	0.01272	1	320:
5% 5						
435/499	0.206G	0.0136	0.003964	0.01272	1	320:
8% 7						
435/499	0.206G	0.0149	0.005692	0.0139	4	320:
8% 7						
435/499	0.206G	0.0149	0.005692	0.0139	4	320:
10% #						
435/499	0.206G	0.0146	0.005291	0.01481	1	320:
10% #						
435/499	0.206G	0.0146	0.005291	0.01481	1	320:

12% #2	5/40 [00:00<00:06,	5.79it/s]				
435/499	0.206G	0.01927	0.006161	0.01719	4	320:
12% #2	5/40 [00:01<00:06,	5.79it/s]				
435/499	0.206G	0.01927	0.006161	0.01719	4	320:
15% #5	6/40 [00:01<00:06,	5.45it/s]				
435/499	0.206G	0.02034	0.007814	0.01782	4	320:
15% #5	6/40 [00:01<00:06,	5.45it/s]				
435/499	0.206G	0.02034	0.007814	0.01782	4	320:
18% #7	7/40 [00:01<00:06,	5.25it/s]				
435/499	0.206G	0.02586	0.007685	0.01761	2	320:
18% #7	7/40 [00:01<00:06,	5.25it/s]				
435/499	0.206G	0.02586	0.007685	0.01761	2	320:
20% ##	8/40 [00:01<00:06,	5.14it/s]				
435/499	0.206G	0.02708	0.008102	0.01786	3	320:
20% ##	8/40 [00:01<00:06,	5.14it/s]				
435/499	0.206G	0.02708	0.008102	0.01786	3	320:
22% ##2	9/40 [00:01<00:05,	5.20it/s]				
435/499	0.206G	0.02517	0.007687	0.01743	1	320:
22% ##2	9/40 [00:01<00:05,	5.20it/s]				
435/499	0.206G	0.02517	0.007687	0.01743	1	320:
25% ##5	10/40 [00:01<00:05,	5.35it/s]				
435/499	0.206G	0.02361	0.007276	0.0172	1	320:
25% ##5	10/40 [00:01<00:05,	5.35it/s]				
435/499	0.206G	0.02361	0.007276	0.0172	1	320:
28% ##7	11/40 [00:01<00:05,	5.48it/s]				
435/499	0.206G	0.02418	0.008045	0.01743	4	320:
28% ##7	11/40 [00:02<00:05,	5.48it/s]				
435/499	0.206G	0.02418	0.008045	0.01743	4	320:
30% ###	12/40 [00:02<00:05,	5.30it/s]				
435/499	0.206G	0.02406	0.008484	0.01801	4	320:
30% ###	12/40 [00:02<00:05,	5.30it/s]				
435/499	0.206G	0.02406	0.008484	0.01801	4	320:
32% ###2	13/40 [00:02<00:05,	5.17it/s]				
435/499	0.206G	0.02487	0.008789	0.01803	4	320:
32% ###2	13/40 [00:02<00:05,	5.17it/s]				
435/499	0.206G	0.02487	0.008789	0.01803	4	320:
35% ###5	14/40 [00:02<00:05,	5.09it/s]				
435/499	0.206G	0.0251	0.009393	0.01902	4	320:
35% ###5	14/40 [00:02<00:05,	5.09it/s]				
435/499	0.206G	0.0251	0.009393	0.01902	4	320:
38% ###7	15/40 [00:02<00:04,	5.03it/s]				
435/499	0.206G	0.02495	0.01004	0.01907	4	320:
38% ###7	15/40 [00:03<00:04,	5.03it/s]				
435/499	0.206G	0.02495	0.01004	0.01907	4	320:
40% ####	16/40 [00:03<00:04,	4.99it/s]				
435/499	0.206G	0.02398	0.009757	0.01929	1	320:
40% ####	16/40 [00:03<00:04,	4.99it/s]				
435/499	0.206G	0.02398	0.009757	0.01929	1	320:

42% ####2	17/40 [00:03<00:04,	4.97it/s]				
435/499	0.206G	0.02589	0.009588	0.02008	3	320:
42% ####2	17/40 [00:03<00:04,	4.97it/s]				
435/499	0.206G	0.02589	0.009588	0.02008	3	320:
45% ####5	18/40 [00:03<00:04,	4.84it/s]				
435/499	0.206G	0.02595	0.009743	0.02005	3	320:
45% ####5	18/40 [00:03<00:04,	4.84it/s]				
435/499	0.206G	0.02595	0.009743	0.02005	3	320:
48% ####7	19/40 [00:03<00:04,	4.87it/s]				
435/499	0.206G	0.02654	0.009958	0.0208	4	320:
48% ####7	19/40 [00:03<00:04,	4.87it/s]				
435/499	0.206G	0.02654	0.009958	0.0208	4	320:
50% #####	20/40 [00:03<00:04,	4.87it/s]				
435/499	0.206G	0.02603	0.009753	0.02083	2	320:
50% #####	20/40 [00:04<00:04,	4.87it/s]				
435/499	0.206G	0.02603	0.009753	0.02083	2	320:
52% ####2	21/40 [00:04<00:03,	5.00it/s]				
435/499	0.206G	0.02533	0.009657	0.0205	2	320:
52% ####2	21/40 [00:04<00:03,	5.00it/s]				
435/499	0.206G	0.02533	0.009657	0.0205	2	320:
55% ####5	22/40 [00:04<00:03,	4.98it/s]				
435/499	0.206G	0.02499	0.009836	0.02072	4	320:
55% ####5	22/40 [00:04<00:03,	4.98it/s]				
435/499	0.206G	0.02499	0.009836	0.02072	4	320:
57% ####7	23/40 [00:04<00:03,	4.83it/s]				
435/499	0.206G	0.02418	0.009558	0.0208	1	320:
57% ####7	23/40 [00:04<00:03,	4.83it/s]				
435/499	0.206G	0.02418	0.009558	0.0208	1	320:
60% #####	24/40 [00:04<00:03,	4.97it/s]				
435/499	0.206G	0.02385	0.009477	0.02104	2	320:
60% #####	24/40 [00:04<00:03,	4.97it/s]				
435/499	0.206G	0.02385	0.009477	0.02104	2	320:
62% ####2	25/40 [00:04<00:03,	4.83it/s]				
435/499	0.206G	0.02409	0.009477	0.0216	2	320:
62% ####2	25/40 [00:05<00:03,	4.83it/s]				
435/499	0.206G	0.02409	0.009477	0.0216	2	320:
65% ####5	26/40 [00:05<00:02,	4.85it/s]				
435/499	0.206G	0.02366	0.00936	0.02158	2	320:
65% ####5	26/40 [00:05<00:02,	4.85it/s]				
435/499	0.206G	0.02366	0.00936	0.02158	2	320:
68% ####7	27/40 [00:05<00:02,	4.98it/s]				
435/499	0.206G	0.02364	0.009261	0.02136	2	320:
68% ####7	27/40 [00:05<00:02,	4.98it/s]				
435/499	0.206G	0.02364	0.009261	0.02136	2	320:
70% #####	28/40 [00:05<00:02,	5.09it/s]				
435/499	0.206G	0.02308	0.009088	0.02128	2	320:
70% #####	28/40 [00:05<00:02,	5.09it/s]				
435/499	0.206G	0.02308	0.009088	0.02128	2	320:

72%	#####2		29/40	[00:05<00:02,	5.27it/s]				
	435/499		0.206G	0.0227	0.008897	0.02102	1	320:	
72%	#####2		29/40	[00:05<00:02,	5.27it/s]				
	435/499		0.206G	0.0227	0.008897	0.02102	1	320:	
75%	#####5		30/40	[00:05<00:01,	5.29it/s]				
	435/499		0.206G	0.02283	0.008801	0.02094	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.29it/s]				
	435/499		0.206G	0.02283	0.008801	0.02094	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.42it/s]				
	435/499		0.206G	0.02314	0.009131	0.02096	4	320:	
78%	#####7		31/40	[00:06<00:01,	5.42it/s]				
	435/499		0.206G	0.02314	0.009131	0.02096	4	320:	
80%	#####		32/40	[00:06<00:01,	5.39it/s]				
	435/499		0.206G	0.02282	0.008938	0.02079	1	320:	
80%	#####		32/40	[00:06<00:01,	5.39it/s]				
	435/499		0.206G	0.02282	0.008938	0.02079	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.51it/s]				
	435/499		0.206G	0.02261	0.009014	0.02121	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.51it/s]				
	435/499		0.206G	0.02261	0.009014	0.02121	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.45it/s]				
	435/499		0.206G	0.02292	0.009047	0.02106	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.45it/s]				
	435/499		0.206G	0.02292	0.009047	0.02106	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.41it/s]				
	435/499		0.206G	0.02302	0.009153	0.02109	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.41it/s]				
	435/499		0.206G	0.02302	0.009153	0.02109	4	320:	
90%	#####		36/40	[00:06<00:00,	5.53it/s]				
	435/499		0.206G	0.02317	0.009296	0.02109	4	320:	
90%	#####		36/40	[00:07<00:00,	5.53it/s]				
	435/499		0.206G	0.02317	0.009296	0.02109	4	320:	
92%	#####2		37/40	[00:07<00:00,	5.45it/s]				
	435/499		0.206G	0.02272	0.009215	0.02097	2	320:	
92%	#####2		37/40	[00:07<00:00,	5.45it/s]				
	435/499		0.206G	0.02272	0.009215	0.02097	2	320:	
95%	#####5		38/40	[00:07<00:00,	5.56it/s]				
	435/499		0.206G	0.02295	0.009358	0.02095	4	320:	
95%	#####5		38/40	[00:07<00:00,	5.56it/s]				
	435/499		0.206G	0.02295	0.009358	0.02095	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.63it/s]				
	435/499		0.206G	0.02259	0.009216	0.0209	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.63it/s]				
	435/499		0.206G	0.02259	0.009216	0.0209	1	320:	
100%	#####		40/40	[00:07<00:00,	5.67it/s]				
	435/499		0.206G	0.02259	0.009216	0.0209	1	320:	
100%	#####		40/40	[00:07<00:00,	5.27it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 16.00it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 17.26it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 16.66it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 16.56it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 16.88it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 16.56it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 16.35it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 15.35it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90% #####		18/20	[00:01<00:00, 16.45it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.81it/s]			
	all	40	40	0.984	0.985	0.995

0.784

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
436/499	0.206G	0.006316	0.00251	0.01396	1	320:
0%		0/40	[00:00<?, ?it/s]			
436/499	0.206G	0.006316	0.00251	0.01396	1	320:
2% 2		1/40	[00:00<00:05, 6.51it/s]			
436/499	0.206G	0.007145	0.004136	0.015	2	320:
2% 2		1/40	[00:00<00:05, 6.51it/s]			
436/499	0.206G	0.007145	0.004136	0.015	2	320:
5% 5		2/40	[00:00<00:05, 6.45it/s]			
436/499	0.206G	0.009153	0.005179	0.01638	2	320:
5% 5		2/40	[00:00<00:05, 6.45it/s]			
436/499	0.206G	0.009153	0.005179	0.01638	2	320:
8% 7		3/40	[00:00<00:06, 5.86it/s]			
436/499	0.206G	0.01037	0.004662	0.01714	1	320:
8% 7		3/40	[00:00<00:06, 5.86it/s]			
436/499	0.206G	0.01037	0.004662	0.01714	1	320:
10% #		4/40	[00:00<00:06, 5.82it/s]			
436/499	0.206G	0.01092	0.005182	0.0174	2	320:
10% #		4/40	[00:00<00:06, 5.82it/s]			
436/499	0.206G	0.01092	0.005182	0.0174	2	320:
12% #2		5/40	[00:00<00:05, 6.02it/s]			

436/499	0.206G	0.01247	0.004991	0.01726	1	320:
12% #2	5/40 [00:01<00:05,	6.02it/s]				
436/499	0.206G	0.01247	0.004991	0.01726	1	320:
15% #5	6/40 [00:01<00:05,	5.95it/s]				
436/499	0.206G	0.01193	0.004969	0.01755	1	320:
15% #5	6/40 [00:01<00:05,	5.95it/s]				
436/499	0.206G	0.01193	0.004969	0.01755	1	320:
18% #7	7/40 [00:01<00:05,	5.89it/s]				
436/499	0.206G	0.01146	0.004671	0.01758	1	320:
18% #7	7/40 [00:01<00:05,	5.89it/s]				
436/499	0.206G	0.01146	0.004671	0.01758	1	320:
20% ##	8/40 [00:01<00:05,	6.05it/s]				
436/499	0.206G	0.01397	0.00553	0.01828	2	320:
20% ##	8/40 [00:01<00:05,	6.05it/s]				
436/499	0.206G	0.01397	0.00553	0.01828	2	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
436/499	0.206G	0.01528	0.005682	0.01832	2	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
436/499	0.206G	0.01528	0.005682	0.01832	2	320:
25% ##5	10/40 [00:01<00:05,	5.67it/s]				
436/499	0.206G	0.01827	0.005672	0.01898	2	320:
25% ##5	10/40 [00:01<00:05,	5.67it/s]				
436/499	0.206G	0.01827	0.005672	0.01898	2	320:
28% ##7	11/40 [00:01<00:05,	5.56it/s]				
436/499	0.206G	0.0197	0.006288	0.01935	4	320:
28% ##7	11/40 [00:02<00:05,	5.56it/s]				
436/499	0.206G	0.0197	0.006288	0.01935	4	320:
30% ###	12/40 [00:02<00:04,	5.63it/s]				
436/499	0.206G	0.01893	0.006061	0.0194	1	320:
30% ###	12/40 [00:02<00:04,	5.63it/s]				
436/499	0.206G	0.01893	0.006061	0.0194	1	320:
32% ###2	13/40 [00:02<00:04,	5.69it/s]				
436/499	0.206G	0.01998	0.006269	0.0201	4	320:
32% ###2	13/40 [00:02<00:04,	5.69it/s]				
436/499	0.206G	0.01998	0.006269	0.0201	4	320:
35% ###5	14/40 [00:02<00:04,	5.58it/s]				
436/499	0.206G	0.02038	0.006402	0.02015	2	320:
35% ###5	14/40 [00:02<00:04,	5.58it/s]				
436/499	0.206G	0.02038	0.006402	0.02015	2	320:
38% ###7	15/40 [00:02<00:04,	5.65it/s]				
436/499	0.206G	0.01985	0.006365	0.02012	2	320:
38% ###7	15/40 [00:02<00:04,	5.65it/s]				
436/499	0.206G	0.01985	0.006365	0.02012	2	320:
40% ####	16/40 [00:02<00:04,	5.68it/s]				
436/499	0.206G	0.01919	0.006175	0.01986	1	320:
40% ####	16/40 [00:02<00:04,	5.68it/s]				
436/499	0.206G	0.01919	0.006175	0.01986	1	320:
42% ####2	17/40 [00:02<00:04,	5.72it/s]				

436/499	0.206G	0.02023	0.006493	0.0198	4	320:
42% #####2	17/40 [00:03<00:04,	5.72it/s]				
436/499	0.206G	0.02023	0.006493	0.0198	4	320:
45% #####5	18/40 [00:03<00:03,	5.75it/s]				
436/499	0.206G	0.01981	0.006505	0.0197	2	320:
45% #####5	18/40 [00:03<00:03,	5.75it/s]				
436/499	0.206G	0.01981	0.006505	0.0197	2	320:
48% #####7	19/40 [00:03<00:03,	5.75it/s]				
436/499	0.206G	0.0221	0.006477	0.01959	2	320:
48% #####7	19/40 [00:03<00:03,	5.75it/s]				
436/499	0.206G	0.0221	0.006477	0.01959	2	320:
50% #####	20/40 [00:03<00:03,	5.77it/s]				
436/499	0.206G	0.02215	0.006849	0.0195	4	320:
50% #####	20/40 [00:03<00:03,	5.77it/s]				
436/499	0.206G	0.02215	0.006849	0.0195	4	320:
52% #####2	21/40 [00:03<00:03,	5.78it/s]				
436/499	0.206G	0.02178	0.007073	0.01945	2	320:
52% #####2	21/40 [00:03<00:03,	5.78it/s]				
436/499	0.206G	0.02178	0.007073	0.01945	2	320:
55% #####5	22/40 [00:03<00:03,	5.77it/s]				
436/499	0.206G	0.02153	0.007403	0.01961	4	320:
55% #####5	22/40 [00:04<00:03,	5.77it/s]				
436/499	0.206G	0.02153	0.007403	0.01961	4	320:
57% #####7	23/40 [00:04<00:03,	5.49it/s]				
436/499	0.206G	0.02309	0.007402	0.01953	2	320:
57% #####7	23/40 [00:04<00:03,	5.49it/s]				
436/499	0.206G	0.02309	0.007402	0.01953	2	320:
60% #####	24/40 [00:04<00:02,	5.58it/s]				
436/499	0.206G	0.02437	0.007527	0.02033	4	320:
60% #####	24/40 [00:04<00:02,	5.58it/s]				
436/499	0.206G	0.02437	0.007527	0.02033	4	320:
62% #####2	25/40 [00:04<00:02,	5.49it/s]				
436/499	0.206G	0.02372	0.007392	0.02012	1	320:
62% #####2	25/40 [00:04<00:02,	5.49it/s]				
436/499	0.206G	0.02372	0.007392	0.02012	1	320:
65% #####5	26/40 [00:04<00:02,	5.73it/s]				
436/499	0.206G	0.02447	0.007397	0.02003	2	320:
65% #####5	26/40 [00:04<00:02,	5.73it/s]				
436/499	0.206G	0.02447	0.007397	0.02003	2	320:
68% #####7	27/40 [00:04<00:02,	5.61it/s]				
436/499	0.206G	0.02395	0.00738	0.0198	2	320:
68% #####7	27/40 [00:04<00:02,	5.61it/s]				
436/499	0.206G	0.02395	0.00738	0.0198	2	320:
70% #####	28/40 [00:04<00:02,	5.66it/s]				
436/499	0.206G	0.02353	0.007446	0.01965	2	320:
70% #####	28/40 [00:05<00:02,	5.66it/s]				
436/499	0.206G	0.02353	0.007446	0.01965	2	320:
72% #####2	29/40 [00:05<00:01,	5.87it/s]				

436/499	0.206G	0.02371	0.007428	0.01973	2	320:
72% #####2	29/40 [00:05<00:01,	5.87it/s]				
436/499	0.206G	0.02371	0.007428	0.01973	2	320:
75% #####5	30/40 [00:05<00:01,	5.69it/s]				
436/499	0.206G	0.0245	0.00741	0.01976	2	320:
75% #####5	30/40 [00:05<00:01,	5.69it/s]				
436/499	0.206G	0.0245	0.00741	0.01976	2	320:
78% #####7	31/40 [00:05<00:01,	5.56it/s]				
436/499	0.206G	0.02494	0.007601	0.0199	4	320:
78% #####7	31/40 [00:05<00:01,	5.56it/s]				
436/499	0.206G	0.02494	0.007601	0.0199	4	320:
80% #####	32/40 [00:05<00:01,	5.63it/s]				
436/499	0.206G	0.0246	0.00751	0.01975	1	320:
80% #####	32/40 [00:05<00:01,	5.63it/s]				
436/499	0.206G	0.0246	0.00751	0.01975	1	320:
82% #####2	33/40 [00:05<00:01,	5.69it/s]				
436/499	0.206G	0.02472	0.00775	0.01975	4	320:
82% #####2	33/40 [00:05<00:01,	5.69it/s]				
436/499	0.206G	0.02472	0.00775	0.01975	4	320:
85% #####5	34/40 [00:05<00:01,	5.56it/s]				
436/499	0.206G	0.02422	0.007652	0.01953	1	320:
85% #####5	34/40 [00:06<00:01,	5.56it/s]				
436/499	0.206G	0.02422	0.007652	0.01953	1	320:
88% #####7	35/40 [00:06<00:00,	5.63it/s]				
436/499	0.206G	0.02401	0.007768	0.01955	4	320:
88% #####7	35/40 [00:06<00:00,	5.63it/s]				
436/499	0.206G	0.02401	0.007768	0.01955	4	320:
90% #####	36/40 [00:06<00:00,	5.01it/s]				
436/499	0.206G	0.02393	0.007962	0.01959	4	320:
90% #####	36/40 [00:06<00:00,	5.01it/s]				
436/499	0.206G	0.02393	0.007962	0.01959	4	320:
92% #####2	37/40 [00:06<00:00,	5.34it/s]				
436/499	0.206G	0.02358	0.007862	0.01951	1	320:
92% #####2	37/40 [00:06<00:00,	5.34it/s]				
436/499	0.206G	0.02358	0.007862	0.01951	1	320:
95% #####5	38/40 [00:06<00:00,	5.47it/s]				
436/499	0.206G	0.02334	0.007742	0.0194	1	320:
95% #####5	38/40 [00:06<00:00,	5.47it/s]				
436/499	0.206G	0.02334	0.007742	0.0194	1	320:
98% #####7	39/40 [00:06<00:00,	5.47it/s]				
436/499	0.206G	0.02331	0.007952	0.01962	4	320:
98% #####7	39/40 [00:07<00:00,	5.47it/s]				
436/499	0.206G	0.02331	0.007952	0.01962	4	320:
100% #####	40/40 [00:07<00:00,	5.66it/s]				
436/499	0.206G	0.02331	0.007952	0.01962	4	320:
100% #####	40/40 [00:07<00:00,	5.67it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:00, 18.29it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:01, 15.65it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 15.86it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 16.73it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 17.26it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 17.58it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 17.03it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:00<00:00, 17.31it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 17.60it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.81it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 17.27it/s]			
		all	40 40 0.981	0.975	0.994	
0.795						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
437/499	0.206G	0.03796	0.008222	0.01991	2	320:
0%						
437/499	0.206G	0.03796	0.008222	0.01991	2	320:
2% 2						
437/499	0.206G	0.04421	0.006851	0.02136	2	320:
2% 2						
437/499	0.206G	0.04421	0.006851	0.02136	2	320:
5% 5						
437/499	0.206G	0.03609	0.00961	0.02043	4	320:
5% 5						
437/499	0.206G	0.03609	0.00961	0.02043	4	320:
8% 7						
437/499	0.206G	0.03407	0.008719	0.02079	1	320:
8% 7						
437/499	0.206G	0.03407	0.008719	0.02079	1	320:
10% #						
437/499	0.206G	0.03194	0.0085	0.02156	2	320:
10% #						
437/499	0.206G	0.03194	0.0085	0.02156	2	320:

12% #2	5/40 [00:00<00:06,	5.22it/s]				
437/499	0.206G	0.02974	0.007694	0.02035	1	320:
12% #2	5/40 [00:01<00:06,	5.22it/s]				
437/499	0.206G	0.02974	0.007694	0.02035	1	320:
15% #5	6/40 [00:01<00:06,	5.39it/s]				
437/499	0.206G	0.02632	0.00696	0.0195	1	320:
15% #5	6/40 [00:01<00:06,	5.39it/s]				
437/499	0.206G	0.02632	0.00696	0.0195	1	320:
18% #7	7/40 [00:01<00:06,	5.09it/s]				
437/499	0.206G	0.02626	0.007251	0.01918	3	320:
18% #7	7/40 [00:01<00:06,	5.09it/s]				
437/499	0.206G	0.02626	0.007251	0.01918	3	320:
20% ##	8/40 [00:01<00:06,	5.16it/s]				
437/499	0.206G	0.02492	0.007574	0.01899	2	320:
20% ##	8/40 [00:01<00:06,	5.16it/s]				
437/499	0.206G	0.02492	0.007574	0.01899	2	320:
22% ##2	9/40 [00:01<00:06,	5.08it/s]				
437/499	0.206G	0.02443	0.00747	0.0191	1	320:
22% ##2	9/40 [00:01<00:06,	5.08it/s]				
437/499	0.206G	0.02443	0.00747	0.0191	1	320:
25% ##5	10/40 [00:01<00:05,	5.03it/s]				
437/499	0.206G	0.02304	0.007061	0.01907	1	320:
25% ##5	10/40 [00:02<00:05,	5.03it/s]				
437/499	0.206G	0.02304	0.007061	0.01907	1	320:
28% ##7	11/40 [00:02<00:05,	4.98it/s]				
437/499	0.206G	0.02173	0.006779	0.01904	1	320:
28% ##7	11/40 [00:02<00:05,	4.98it/s]				
437/499	0.206G	0.02173	0.006779	0.01904	1	320:
30% ###	12/40 [00:02<00:05,	5.08it/s]				
437/499	0.206G	0.0236	0.007415	0.01953	4	320:
30% ###	12/40 [00:02<00:05,	5.08it/s]				
437/499	0.206G	0.0236	0.007415	0.01953	4	320:
32% ###2	13/40 [00:02<00:05,	5.03it/s]				
437/499	0.206G	0.02279	0.007379	0.01914	1	320:
32% ###2	13/40 [00:02<00:05,	5.03it/s]				
437/499	0.206G	0.02279	0.007379	0.01914	1	320:
35% ###5	14/40 [00:02<00:05,	4.99it/s]				
437/499	0.206G	0.02286	0.007109	0.01896	1	320:
35% ###5	14/40 [00:02<00:05,	4.99it/s]				
437/499	0.206G	0.02286	0.007109	0.01896	1	320:
38% ###7	15/40 [00:02<00:05,	4.85it/s]				
437/499	0.206G	0.02319	0.007655	0.0189	4	320:
38% ###7	15/40 [00:03<00:05,	4.85it/s]				
437/499	0.206G	0.02319	0.007655	0.0189	4	320:
40% ####	16/40 [00:03<00:04,	4.85it/s]				
437/499	0.206G	0.02392	0.00767	0.02029	2	320:
40% ####	16/40 [00:03<00:04,	4.85it/s]				
437/499	0.206G	0.02392	0.00767	0.02029	2	320:

42% ####2	17/40 [00:03<00:04,	4.87it/s]				
437/499	0.206G	0.023	0.007379	0.0207	1	320:
42% ####2	17/40 [00:03<00:04,	4.87it/s]				
437/499	0.206G	0.023	0.007379	0.0207	1	320:
45% ####5	18/40 [00:03<00:04,	5.00it/s]				
437/499	0.206G	0.02249	0.007163	0.02057	1	320:
45% ####5	18/40 [00:03<00:04,	5.00it/s]				
437/499	0.206G	0.02249	0.007163	0.02057	1	320:
48% ####7	19/40 [00:03<00:04,	4.97it/s]				
437/499	0.206G	0.02276	0.00748	0.02082	4	320:
48% ####7	19/40 [00:03<00:04,	4.97it/s]				
437/499	0.206G	0.02276	0.00748	0.02082	4	320:
50% #####	20/40 [00:03<00:04,	4.84it/s]				
437/499	0.206G	0.02268	0.007894	0.02108	4	320:
50% #####	20/40 [00:04<00:04,	4.84it/s]				
437/499	0.206G	0.02268	0.007894	0.02108	4	320:
52% ####2	21/40 [00:04<00:03,	4.97it/s]				
437/499	0.206G	0.02235	0.007803	0.02078	1	320:
52% ####2	21/40 [00:04<00:03,	4.97it/s]				
437/499	0.206G	0.02235	0.007803	0.02078	1	320:
55% ####5	22/40 [00:04<00:03,	5.28it/s]				
437/499	0.206G	0.02193	0.00777	0.02071	2	320:
55% ####5	22/40 [00:04<00:03,	5.28it/s]				
437/499	0.206G	0.02193	0.00777	0.02071	2	320:
57% ####7	23/40 [00:04<00:03,	5.47it/s]				
437/499	0.206G	0.02169	0.007735	0.02054	2	320:
57% ####7	23/40 [00:04<00:03,	5.47it/s]				
437/499	0.206G	0.02169	0.007735	0.02054	2	320:
60% #####	24/40 [00:04<00:02,	5.43it/s]				
437/499	0.206G	0.02161	0.007728	0.0205	2	320:
60% #####	24/40 [00:04<00:02,	5.43it/s]				
437/499	0.206G	0.02161	0.007728	0.0205	2	320:
62% ####2	25/40 [00:04<00:02,	5.53it/s]				
437/499	0.206G	0.02172	0.007658	0.02036	2	320:
62% ####2	25/40 [00:05<00:02,	5.53it/s]				
437/499	0.206G	0.02172	0.007658	0.02036	2	320:
65% ####5	26/40 [00:05<00:02,	5.47it/s]				
437/499	0.206G	0.02265	0.007727	0.02019	3	320:
65% ####5	26/40 [00:05<00:02,	5.47it/s]				
437/499	0.206G	0.02265	0.007727	0.02019	3	320:
68% ####7	27/40 [00:05<00:02,	5.42it/s]				
437/499	0.206G	0.02297	0.008069	0.02039	4	320:
68% ####7	27/40 [00:05<00:02,	5.42it/s]				
437/499	0.206G	0.02297	0.008069	0.02039	4	320:
70% #####	28/40 [00:05<00:02,	5.53it/s]				
437/499	0.206G	0.02254	0.008061	0.0203	2	320:
70% #####	28/40 [00:05<00:02,	5.53it/s]				
437/499	0.206G	0.02254	0.008061	0.0203	2	320:

72%	#####2		29/40	[00:05<00:02,	5.47it/s]				
	437/499		0.206G	0.02224	0.007998	0.02026	2	320:	
72%	#####2		29/40	[00:05<00:02,	5.47it/s]				
	437/499		0.206G	0.02224	0.007998	0.02026	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.41it/s]				
	437/499		0.206G	0.02188	0.007976	0.02021	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.41it/s]				
	437/499		0.206G	0.02188	0.007976	0.02021	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.67it/s]				
	437/499		0.206G	0.02155	0.007824	0.02043	1	320:	
78%	#####7		31/40	[00:06<00:01,	5.67it/s]				
	437/499		0.206G	0.02155	0.007824	0.02043	1	320:	
80%	#####		32/40	[00:06<00:01,	5.71it/s]				
	437/499		0.206G	0.02233	0.007801	0.02029	2	320:	
80%	#####		32/40	[00:06<00:01,	5.71it/s]				
	437/499		0.206G	0.02233	0.007801	0.02029	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.60it/s]				
	437/499		0.206G	0.02244	0.007766	0.02046	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.60it/s]				
	437/499		0.206G	0.02244	0.007766	0.02046	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.49it/s]				
	437/499		0.206G	0.02241	0.007652	0.02044	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.49it/s]				
	437/499		0.206G	0.02241	0.007652	0.02044	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.59it/s]				
	437/499		0.206G	0.02211	0.007837	0.02034	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.59it/s]				
	437/499		0.206G	0.02211	0.007837	0.02034	4	320:	
90%	#####		36/40	[00:06<00:00,	5.65it/s]				
	437/499		0.206G	0.02221	0.007955	0.0204	4	320:	
90%	#####		36/40	[00:06<00:00,	5.65it/s]				
	437/499		0.206G	0.02221	0.007955	0.0204	4	320:	
92%	#####2		37/40	[00:06<00:00,	5.69it/s]				
	437/499		0.206G	0.02188	0.007824	0.02021	1	320:	
92%	#####2		37/40	[00:07<00:00,	5.69it/s]				
	437/499		0.206G	0.02188	0.007824	0.02021	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.88it/s]				
	437/499		0.206G	0.02163	0.007725	0.02007	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.88it/s]				
	437/499		0.206G	0.02163	0.007725	0.02007	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.80it/s]				
	437/499		0.206G	0.02187	0.007718	0.02059	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.80it/s]				
	437/499		0.206G	0.02187	0.007718	0.02059	2	320:	
100%	#####		40/40	[00:07<00:00,	5.86it/s]				
	437/499		0.206G	0.02187	0.007718	0.02059	2	320:	
100%	#####		40/40	[00:07<00:00,	5.35it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 15.98it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 17.26it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 16.70it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 17.09it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 16.66it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 16.43it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 16.99it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 15.93it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 17.75it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.98it/s]			
	all	40	40	0.981	0.975	0.994

0.795

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
438/499	0.206G	0.02715	0.01051	0.0174	2	320:
0%		0/40	[00:00<?, ?it/s]			
438/499	0.206G	0.02715	0.01051	0.0174	2	320:
2% 2		1/40	[00:00<00:06, 6.41it/s]			
438/499	0.206G	0.01848	0.008443	0.01763	2	320:
2% 2		1/40	[00:00<00:06, 6.41it/s]			
438/499	0.206G	0.01848	0.008443	0.01763	2	320:
5% 5		2/40	[00:00<00:06, 6.00it/s]			
438/499	0.206G	0.01742	0.006916	0.01686	1	320:
5% 5		2/40	[00:00<00:06, 6.00it/s]			
438/499	0.206G	0.01742	0.006916	0.01686	1	320:
8% 7		3/40	[00:00<00:05, 6.18it/s]			
438/499	0.206G	0.01505	0.007167	0.01713	2	320:
8% 7		3/40	[00:00<00:05, 6.18it/s]			
438/499	0.206G	0.01505	0.007167	0.01713	2	320:
10% #		4/40	[00:00<00:05, 6.03it/s]			
438/499	0.206G	0.01592	0.007625	0.01693	2	320:
10% #		4/40	[00:00<00:05, 6.03it/s]			
438/499	0.206G	0.01592	0.007625	0.01693	2	320:
12% #2		5/40	[00:00<00:05, 5.94it/s]			

438/499	0.206G	0.01985	0.01003	0.01774	4	320:
12% #2	5/40 [00:01<00:05,	5.94it/s]				
438/499	0.206G	0.01985	0.01003	0.01774	4	320:
15% #5	6/40 [00:01<00:06,	5.55it/s]				
438/499	0.206G	0.01993	0.009253	0.0177	1	320:
15% #5	6/40 [00:01<00:06,	5.55it/s]				
438/499	0.206G	0.01993	0.009253	0.0177	1	320:
18% #7	7/40 [00:01<00:05,	5.63it/s]				
438/499	0.206G	0.0186	0.008504	0.01815	1	320:
18% #7	7/40 [00:01<00:05,	5.63it/s]				
438/499	0.206G	0.0186	0.008504	0.01815	1	320:
20% ##	8/40 [00:01<00:05,	5.67it/s]				
438/499	0.206G	0.02081	0.008604	0.02119	2	320:
20% ##	8/40 [00:01<00:05,	5.67it/s]				
438/499	0.206G	0.02081	0.008604	0.02119	2	320:
22% ##2	9/40 [00:01<00:05,	5.72it/s]				
438/499	0.206G	0.02023	0.008797	0.02066	2	320:
22% ##2	9/40 [00:01<00:05,	5.72it/s]				
438/499	0.206G	0.02023	0.008797	0.02066	2	320:
25% ##5	10/40 [00:01<00:05,	5.75it/s]				
438/499	0.206G	0.01934	0.008307	0.02023	1	320:
25% ##5	10/40 [00:01<00:05,	5.75it/s]				
438/499	0.206G	0.01934	0.008307	0.02023	1	320:
28% ##7	11/40 [00:01<00:05,	5.75it/s]				
438/499	0.206G	0.01972	0.009104	0.02063	4	320:
28% ##7	11/40 [00:02<00:05,	5.75it/s]				
438/499	0.206G	0.01972	0.009104	0.02063	4	320:
30% ###	12/40 [00:02<00:05,	5.47it/s]				
438/499	0.206G	0.01954	0.009793	0.0205	4	320:
30% ###	12/40 [00:02<00:05,	5.47it/s]				
438/499	0.206G	0.01954	0.009793	0.0205	4	320:
32% ###2	13/40 [00:02<00:04,	5.57it/s]				
438/499	0.206G	0.01969	0.01052	0.02068	4	320:
32% ###2	13/40 [00:02<00:04,	5.57it/s]				
438/499	0.206G	0.01969	0.01052	0.02068	4	320:
35% ###5	14/40 [00:02<00:04,	5.48it/s]				
438/499	0.206G	0.02031	0.01062	0.02231	2	320:
35% ###5	14/40 [00:02<00:04,	5.48it/s]				
438/499	0.206G	0.02031	0.01062	0.02231	2	320:
38% ###7	15/40 [00:02<00:04,	5.30it/s]				
438/499	0.206G	0.02021	0.0107	0.02223	4	320:
38% ###7	15/40 [00:02<00:04,	5.30it/s]				
438/499	0.206G	0.02021	0.0107	0.02223	4	320:
40% ####	16/40 [00:02<00:04,	5.31it/s]				
438/499	0.206G	0.01973	0.01067	0.02184	2	320:
40% ####	16/40 [00:03<00:04,	5.31it/s]				
438/499	0.206G	0.01973	0.01067	0.02184	2	320:
42% ####2	17/40 [00:03<00:04,	5.43it/s]				

438/499	0.206G	0.01917	0.01043	0.02157	2	320:
42% #####2	17/40 [00:03<00:04,	5.43it/s]				
438/499	0.206G	0.01917	0.01043	0.02157	2	320:
45% #####5	18/40 [00:03<00:04,	5.40it/s]				
438/499	0.206G	0.01905	0.01037	0.02119	2	320:
45% #####5	18/40 [00:03<00:04,	5.40it/s]				
438/499	0.206G	0.01905	0.01037	0.02119	2	320:
48% #####7	19/40 [00:03<00:03,	5.52it/s]				
438/499	0.206G	0.01882	0.01007	0.02078	1	320:
48% #####7	19/40 [00:03<00:03,	5.52it/s]				
438/499	0.206G	0.01882	0.01007	0.02078	1	320:
50% #####	20/40 [00:03<00:03,	5.18it/s]				
438/499	0.206G	0.01818	0.009712	0.02048	1	320:
50% #####	20/40 [00:03<00:03,	5.18it/s]				
438/499	0.206G	0.01818	0.009712	0.02048	1	320:
52% #####2	21/40 [00:03<00:03,	5.36it/s]				
438/499	0.206G	0.01779	0.009598	0.02043	2	320:
52% #####2	21/40 [00:03<00:03,	5.36it/s]				
438/499	0.206G	0.01779	0.009598	0.02043	2	320:
55% #####5	22/40 [00:03<00:03,	5.34it/s]				
438/499	0.206G	0.01745	0.009409	0.02017	1	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
438/499	0.206G	0.01745	0.009409	0.02017	1	320:
57% #####7	23/40 [00:04<00:03,	5.47it/s]				
438/499	0.206G	0.0175	0.009243	0.02002	2	320:
57% #####7	23/40 [00:04<00:03,	5.47it/s]				
438/499	0.206G	0.0175	0.009243	0.02002	2	320:
60% #####	24/40 [00:04<00:02,	5.57it/s]				
438/499	0.206G	0.018	0.009223	0.01978	2	320:
60% #####	24/40 [00:04<00:02,	5.57it/s]				
438/499	0.206G	0.018	0.009223	0.01978	2	320:
62% #####2	25/40 [00:04<00:02,	5.64it/s]				
438/499	0.206G	0.01767	0.009079	0.01952	2	320:
62% #####2	25/40 [00:04<00:02,	5.64it/s]				
438/499	0.206G	0.01767	0.009079	0.01952	2	320:
65% #####5	26/40 [00:04<00:02,	5.68it/s]				
438/499	0.206G	0.01906	0.008913	0.01944	2	320:
65% #####5	26/40 [00:04<00:02,	5.68it/s]				
438/499	0.206G	0.01906	0.008913	0.01944	2	320:
68% #####7	27/40 [00:04<00:02,	5.72it/s]				
438/499	0.206G	0.01875	0.008767	0.01926	2	320:
68% #####7	27/40 [00:05<00:02,	5.72it/s]				
438/499	0.206G	0.01875	0.008767	0.01926	2	320:
70% #####	28/40 [00:05<00:02,	5.74it/s]				
438/499	0.206G	0.01904	0.008936	0.01922	4	320:
70% #####	28/40 [00:05<00:02,	5.74it/s]				
438/499	0.206G	0.01904	0.008936	0.01922	4	320:
72% #####2	29/40 [00:05<00:01,	5.75it/s]				

438/499	0.206G	0.01885	0.008748	0.01908	1	320:
72% #####2	29/40 [00:05<00:01,	5.75it/s]				
438/499	0.206G	0.01885	0.008748	0.01908	1	320:
75% #####5	30/40 [00:05<00:01,	5.76it/s]				
438/499	0.206G	0.01949	0.008691	0.01961	2	320:
75% #####5	30/40 [00:05<00:01,	5.76it/s]				
438/499	0.206G	0.01949	0.008691	0.01961	2	320:
78% #####7	31/40 [00:05<00:01,	5.62it/s]				
438/499	0.206G	0.0192	0.008623	0.01945	2	320:
78% #####7	31/40 [00:05<00:01,	5.62it/s]				
438/499	0.206G	0.0192	0.008623	0.01945	2	320:
80% #####	32/40 [00:05<00:01,	5.69it/s]				
438/499	0.206G	0.01941	0.008553	0.01932	2	320:
80% #####	32/40 [00:05<00:01,	5.69it/s]				
438/499	0.206G	0.01941	0.008553	0.01932	2	320:
82% #####2	33/40 [00:05<00:01,	5.58it/s]				
438/499	0.206G	0.01908	0.008416	0.01931	1	320:
82% #####2	33/40 [00:06<00:01,	5.58it/s]				
438/499	0.206G	0.01908	0.008416	0.01931	1	320:
85% #####5	34/40 [00:06<00:01,	5.65it/s]				
438/499	0.206G	0.01892	0.008286	0.01915	1	320:
85% #####5	34/40 [00:06<00:01,	5.65it/s]				
438/499	0.206G	0.01892	0.008286	0.01915	1	320:
88% #####7	35/40 [00:06<00:00,	5.67it/s]				
438/499	0.206G	0.01886	0.008225	0.01904	1	320:
88% #####7	35/40 [00:06<00:00,	5.67it/s]				
438/499	0.206G	0.01886	0.008225	0.01904	1	320:
90% #####	36/40 [00:06<00:00,	5.71it/s]				
438/499	0.206G	0.01963	0.008358	0.019	4	320:
90% #####	36/40 [00:06<00:00,	5.71it/s]				
438/499	0.206G	0.01963	0.008358	0.019	4	320:
92% #####2	37/40 [00:06<00:00,	5.75it/s]				
438/499	0.206G	0.01952	0.008332	0.01899	2	320:
92% #####2	37/40 [00:06<00:00,	5.75it/s]				
438/499	0.206G	0.01952	0.008332	0.01899	2	320:
95% #####5	38/40 [00:06<00:00,	5.75it/s]				
438/499	0.206G	0.01922	0.008221	0.01901	1	320:
95% #####5	38/40 [00:06<00:00,	5.75it/s]				
438/499	0.206G	0.01922	0.008221	0.01901	1	320:
98% #####7	39/40 [00:06<00:00,	5.77it/s]				
438/499	0.206G	0.019	0.008098	0.0189	1	320:
98% #####7	39/40 [00:07<00:00,	5.77it/s]				
438/499	0.206G	0.019	0.008098	0.0189	1	320:
100% #####	40/40 [00:07<00:00,	5.94it/s]				
438/499	0.206G	0.019	0.008098	0.0189	1	320:
100% #####	40/40 [00:07<00:00,	5.64it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:01, 17.84it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 16.71it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 14.66it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 15.16it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 14.77it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 14.58it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 15.00it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:01<00:00, 15.30it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 15.42it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 15.62it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 15.35it/s]			
		all	40 40	0.982	0.988	0.995
0.808						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
439/499	0.206G	0.02264	0.0153	0.02439	4	320:
0%						
439/499	0.206G	0.02264	0.0153	0.02439	4	320:
2% 2						
439/499	0.206G	0.01539	0.009607	0.02056	1	320:
2% 2						
439/499	0.206G	0.01539	0.009607	0.02056	1	320:
5% 5						
439/499	0.206G	0.02119	0.008396	0.02026	2	320:
5% 5						
439/499	0.206G	0.02119	0.008396	0.02026	2	320:
8% 7						
439/499	0.206G	0.02215	0.01116	0.02019	4	320:
8% 7						
439/499	0.206G	0.02215	0.01116	0.02019	4	320:
10% #						
439/499	0.206G	0.01919	0.009489	0.02	1	320:
10% #						
439/499	0.206G	0.01919	0.009489	0.02	1	320:

12% #2	5/40 [00:00<00:06,	5.05it/s]				
439/499	0.206G	0.02074	0.01091	0.0207	4	320:
12% #2	5/40 [00:01<00:06,	5.05it/s]				
439/499	0.206G	0.02074	0.01091	0.0207	4	320:
15% #5	6/40 [00:01<00:06,	5.00it/s]				
439/499	0.206G	0.02547	0.01055	0.02053	3	320:
15% #5	6/40 [00:01<00:06,	5.00it/s]				
439/499	0.206G	0.02547	0.01055	0.02053	3	320:
18% #7	7/40 [00:01<00:06,	4.98it/s]				
439/499	0.206G	0.02482	0.01077	0.02038	4	320:
18% #7	7/40 [00:01<00:06,	4.98it/s]				
439/499	0.206G	0.02482	0.01077	0.02038	4	320:
20% ##	8/40 [00:01<00:06,	4.83it/s]				
439/499	0.206G	0.02521	0.01054	0.02088	2	320:
20% ##	8/40 [00:01<00:06,	4.83it/s]				
439/499	0.206G	0.02521	0.01054	0.02088	2	320:
22% ##2	9/40 [00:01<00:06,	4.97it/s]				
439/499	0.206G	0.02752	0.0106	0.02037	3	320:
22% ##2	9/40 [00:02<00:06,	4.97it/s]				
439/499	0.206G	0.02752	0.0106	0.02037	3	320:
25% ##5	10/40 [00:02<00:06,	4.96it/s]				
439/499	0.206G	0.02566	0.009865	0.02051	1	320:
25% ##5	10/40 [00:02<00:06,	4.96it/s]				
439/499	0.206G	0.02566	0.009865	0.02051	1	320:
28% ##7	11/40 [00:02<00:05,	5.05it/s]				
439/499	0.206G	0.02689	0.009639	0.021	2	320:
28% ##7	11/40 [00:02<00:05,	5.05it/s]				
439/499	0.206G	0.02689	0.009639	0.021	2	320:
30% ###	12/40 [00:02<00:05,	5.14it/s]				
439/499	0.206G	0.02554	0.00916	0.02029	1	320:
30% ###	12/40 [00:02<00:05,	5.14it/s]				
439/499	0.206G	0.02554	0.00916	0.02029	1	320:
32% ###2	13/40 [00:02<00:05,	5.25it/s]				
439/499	0.206G	0.027	0.009016	0.02021	2	320:
32% ###2	13/40 [00:02<00:05,	5.25it/s]				
439/499	0.206G	0.027	0.009016	0.02021	2	320:
35% ###5	14/40 [00:02<00:04,	5.20it/s]				
439/499	0.206G	0.02726	0.009476	0.021	3	320:
35% ###5	14/40 [00:02<00:04,	5.20it/s]				
439/499	0.206G	0.02726	0.009476	0.021	3	320:
38% ###7	15/40 [00:02<00:04,	5.24it/s]				
439/499	0.206G	0.02644	0.009135	0.02058	1	320:
38% ###7	15/40 [00:03<00:04,	5.24it/s]				
439/499	0.206G	0.02644	0.009135	0.02058	1	320:
40% ####	16/40 [00:03<00:04,	5.25it/s]				
439/499	0.206G	0.0254	0.008906	0.02025	2	320:
40% ####	16/40 [00:03<00:04,	5.25it/s]				
439/499	0.206G	0.0254	0.008906	0.02025	2	320:

42% ####2	17/40 [00:03<00:04,	5.27it/s]				
439/499	0.206G	0.0251	0.008995	0.02014	4	320:
42% ####2	17/40 [00:03<00:04,	5.27it/s]				
439/499	0.206G	0.0251	0.008995	0.02014	4	320:
45% ####5	18/40 [00:03<00:04,	5.43it/s]				
439/499	0.206G	0.02611	0.009128	0.02001	2	320:
45% ####5	18/40 [00:03<00:04,	5.43it/s]				
439/499	0.206G	0.02611	0.009128	0.02001	2	320:
48% ####7	19/40 [00:03<00:03,	5.39it/s]				
439/499	0.206G	0.02548	0.008898	0.01988	1	320:
48% ####7	19/40 [00:03<00:03,	5.39it/s]				
439/499	0.206G	0.02548	0.008898	0.01988	1	320:
50% #####	20/40 [00:03<00:03,	5.24it/s]				
439/499	0.206G	0.02489	0.008645	0.01967	1	320:
50% #####	20/40 [00:04<00:03,	5.24it/s]				
439/499	0.206G	0.02489	0.008645	0.01967	1	320:
52% ####2	21/40 [00:04<00:03,	5.54it/s]				
439/499	0.206G	0.02517	0.008552	0.01989	2	320:
52% ####2	21/40 [00:04<00:03,	5.54it/s]				
439/499	0.206G	0.02517	0.008552	0.01989	2	320:
55% ####5	22/40 [00:04<00:03,	5.45it/s]				
439/499	0.206G	0.02511	0.008971	0.01988	4	320:
55% ####5	22/40 [00:04<00:03,	5.45it/s]				
439/499	0.206G	0.02511	0.008971	0.01988	4	320:
57% ####7	23/40 [00:04<00:03,	5.41it/s]				
439/499	0.206G	0.02447	0.00878	0.01961	1	320:
57% ####7	23/40 [00:04<00:03,	5.41it/s]				
439/499	0.206G	0.02447	0.00878	0.01961	1	320:
60% #####	24/40 [00:04<00:02,	5.53it/s]				
439/499	0.206G	0.02421	0.008918	0.01963	4	320:
60% #####	24/40 [00:04<00:02,	5.53it/s]				
439/499	0.206G	0.02421	0.008918	0.01963	4	320:
62% ####2	25/40 [00:04<00:02,	5.48it/s]				
439/499	0.206G	0.02392	0.009039	0.02009	4	320:
62% ####2	25/40 [00:04<00:02,	5.48it/s]				
439/499	0.206G	0.02392	0.009039	0.02009	4	320:
65% ####5	26/40 [00:04<00:02,	5.43it/s]				
439/499	0.206G	0.02376	0.00923	0.02021	4	320:
65% ####5	26/40 [00:05<00:02,	5.43it/s]				
439/499	0.206G	0.02376	0.00923	0.02021	4	320:
68% ####7	27/40 [00:05<00:02,	5.55it/s]				
439/499	0.206G	0.02365	0.00916	0.02034	2	320:
68% ####7	27/40 [00:05<00:02,	5.55it/s]				
439/499	0.206G	0.02365	0.00916	0.02034	2	320:
70% #####	28/40 [00:05<00:02,	5.45it/s]				
439/499	0.206G	0.02327	0.00896	0.02025	1	320:
70% #####	28/40 [00:05<00:02,	5.45it/s]				
439/499	0.206G	0.02327	0.00896	0.02025	1	320:

72%	#####2		29/40	[00:05<00:02,	5.42it/s]				
	439/499		0.206G	0.0233	0.008887	0.02128	2	320:	
72%	#####2		29/40	[00:05<00:02,	5.42it/s]				
	439/499		0.206G	0.0233	0.008887	0.02128	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.53it/s]				
	439/499		0.206G	0.02279	0.00872	0.02102	1	320:	
75%	#####5		30/40	[00:05<00:01,	5.53it/s]				
	439/499		0.206G	0.02279	0.00872	0.02102	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.45it/s]				
	439/499		0.206G	0.02228	0.008544	0.02094	1	320:	
78%	#####7		31/40	[00:06<00:01,	5.45it/s]				
	439/499		0.206G	0.02228	0.008544	0.02094	1	320:	
80%	#####		32/40	[00:06<00:01,	5.41it/s]				
	439/499		0.206G	0.02238	0.008529	0.02116	2	320:	
80%	#####		32/40	[00:06<00:01,	5.41it/s]				
	439/499		0.206G	0.02238	0.008529	0.02116	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.17it/s]				
	439/499		0.206G	0.02216	0.008385	0.02097	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.17it/s]				
	439/499		0.206G	0.02216	0.008385	0.02097	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.43it/s]				
	439/499		0.206G	0.0219	0.008278	0.02085	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.43it/s]				
	439/499		0.206G	0.0219	0.008278	0.02085	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.54it/s]				
	439/499		0.206G	0.02177	0.008178	0.02066	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.54it/s]				
	439/499		0.206G	0.02177	0.008178	0.02066	1	320:	
90%	#####		36/40	[00:06<00:00,	5.60it/s]				
	439/499		0.206G	0.0213	0.008047	0.02059	1	320:	
90%	#####		36/40	[00:06<00:00,	5.60it/s]				
	439/499		0.206G	0.0213	0.008047	0.02059	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.65it/s]				
	439/499		0.206G	0.02214	0.007959	0.02123	2	320:	
92%	#####2		37/40	[00:07<00:00,	5.65it/s]				
	439/499		0.206G	0.02214	0.007959	0.02123	2	320:	
95%	#####5		38/40	[00:07<00:00,	5.41it/s]				
	439/499		0.206G	0.02271	0.007929	0.02107	2	320:	
95%	#####5		38/40	[00:07<00:00,	5.41it/s]				
	439/499		0.206G	0.02271	0.007929	0.02107	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.41it/s]				
	439/499		0.206G	0.02265	0.007818	0.02095	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.41it/s]				
	439/499		0.206G	0.02265	0.007818	0.02095	1	320:	
100%	#####		40/40	[00:07<00:00,	5.51it/s]				
	439/499		0.206G	0.02265	0.007818	0.02095	1	320:	
100%	#####		40/40	[00:07<00:00,	5.32it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 16.08it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 16.03it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 16.81it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 16.51it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 15.61it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 16.42it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		15/20	[00:00<00:00, 17.35it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:01<00:00, 16.94it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 17.31it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.99it/s]			
	all	40	40	0.982	0.988	0.995

0.808

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
440/499	0.206G	0.03264	0.009068	0.02244	3	320:
0%		0/40	[00:00<?, ?it/s]			
440/499	0.206G	0.03264	0.009068	0.02244	3	320:
2% 2		1/40	[00:00<00:07, 4.91it/s]			
440/499	0.206G	0.02132	0.0059	0.02009	1	320:
2% 2		1/40	[00:00<00:07, 4.91it/s]			
440/499	0.206G	0.02132	0.0059	0.02009	1	320:
5% 5		2/40	[00:00<00:06, 5.69it/s]			
440/499	0.206G	0.03177	0.005542	0.01988	2	320:
5% 5		2/40	[00:00<00:06, 5.69it/s]			
440/499	0.206G	0.03177	0.005542	0.01988	2	320:
8% 7		3/40	[00:00<00:06, 5.74it/s]			
440/499	0.206G	0.02757	0.00538	0.02	2	320:
8% 7		3/40	[00:00<00:06, 5.74it/s]			
440/499	0.206G	0.02757	0.00538	0.02	2	320:
10% #		4/40	[00:00<00:06, 5.39it/s]			
440/499	0.206G	0.02426	0.004813	0.01991	1	320:
10% #		4/40	[00:00<00:06, 5.39it/s]			
440/499	0.206G	0.02426	0.004813	0.01991	1	320:
12% #2		5/40	[00:00<00:06, 5.53it/s]			

440/499	0.206G	0.02327	0.004652	0.01881	1	320:
12% #2	5/40 [00:01<00:06,	5.53it/s]				
440/499	0.206G	0.02327	0.004652	0.01881	1	320:
15% #5	6/40 [00:01<00:06,	5.60it/s]				
440/499	0.206G	0.02692	0.005082	0.01936	3	320:
15% #5	6/40 [00:01<00:06,	5.60it/s]				
440/499	0.206G	0.02692	0.005082	0.01936	3	320:
18% #7	7/40 [00:01<00:05,	5.67it/s]				
440/499	0.206G	0.02887	0.005198	0.01912	2	320:
18% #7	7/40 [00:01<00:05,	5.67it/s]				
440/499	0.206G	0.02887	0.005198	0.01912	2	320:
20% ##	8/40 [00:01<00:05,	5.72it/s]				
440/499	0.206G	0.02674	0.00503	0.01893	1	320:
20% ##	8/40 [00:01<00:05,	5.72it/s]				
440/499	0.206G	0.02674	0.00503	0.01893	1	320:
22% ##2	9/40 [00:01<00:05,	5.74it/s]				
440/499	0.206G	0.02652	0.005493	0.0185	2	320:
22% ##2	9/40 [00:01<00:05,	5.74it/s]				
440/499	0.206G	0.02652	0.005493	0.0185	2	320:
25% ##5	10/40 [00:01<00:05,	5.61it/s]				
440/499	0.206G	0.0257	0.006136	0.0191	4	320:
25% ##5	10/40 [00:01<00:05,	5.61it/s]				
440/499	0.206G	0.0257	0.006136	0.0191	4	320:
28% ##7	11/40 [00:01<00:05,	5.36it/s]				
440/499	0.206G	0.02443	0.006058	0.01851	1	320:
28% ##7	11/40 [00:02<00:05,	5.36it/s]				
440/499	0.206G	0.02443	0.006058	0.01851	1	320:
30% ###	12/40 [00:02<00:05,	5.48it/s]				
440/499	0.206G	0.02459	0.007068	0.01872	4	320:
30% ###	12/40 [00:02<00:05,	5.48it/s]				
440/499	0.206G	0.02459	0.007068	0.01872	4	320:
32% ###2	13/40 [00:02<00:04,	5.44it/s]				
440/499	0.206G	0.02503	0.007496	0.01859	2	320:
32% ###2	13/40 [00:02<00:04,	5.44it/s]				
440/499	0.206G	0.02503	0.007496	0.01859	2	320:
35% ###5	14/40 [00:02<00:04,	5.53it/s]				
440/499	0.206G	0.02434	0.007154	0.01802	1	320:
35% ###5	14/40 [00:02<00:04,	5.53it/s]				
440/499	0.206G	0.02434	0.007154	0.01802	1	320:
38% ###7	15/40 [00:02<00:04,	5.62it/s]				
440/499	0.206G	0.02583	0.007167	0.01827	2	320:
38% ###7	15/40 [00:02<00:04,	5.62it/s]				
440/499	0.206G	0.02583	0.007167	0.01827	2	320:
40% ####	16/40 [00:02<00:04,	5.53it/s]				
440/499	0.206G	0.02514	0.006973	0.01807	1	320:
40% ####	16/40 [00:03<00:04,	5.53it/s]				
440/499	0.206G	0.02514	0.006973	0.01807	1	320:
42% ####2	17/40 [00:03<00:04,	5.48it/s]				

440/499	0.206G	0.0247	0.007221	0.01837	4	320:
42% #####2	17/40 [00:03<00:04,	5.48it/s]				
440/499	0.206G	0.0247	0.007221	0.01837	4	320:
45% #####5	18/40 [00:03<00:04,	5.41it/s]				
440/499	0.206G	0.0258	0.007212	0.01811	2	320:
45% #####5	18/40 [00:03<00:04,	5.41it/s]				
440/499	0.206G	0.0258	0.007212	0.01811	2	320:
48% #####7	19/40 [00:03<00:03,	5.38it/s]				
440/499	0.206G	0.0255	0.007575	0.01845	4	320:
48% #####7	19/40 [00:03<00:03,	5.38it/s]				
440/499	0.206G	0.0255	0.007575	0.01845	4	320:
50% #####	20/40 [00:03<00:03,	5.35it/s]				
440/499	0.206G	0.02562	0.008062	0.01842	4	320:
50% #####	20/40 [00:03<00:03,	5.35it/s]				
440/499	0.206G	0.02562	0.008062	0.01842	4	320:
52% #####2	21/40 [00:03<00:03,	5.34it/s]				
440/499	0.206G	0.0248	0.007904	0.01833	1	320:
52% #####2	21/40 [00:04<00:03,	5.34it/s]				
440/499	0.206G	0.0248	0.007904	0.01833	1	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
440/499	0.206G	0.02459	0.007856	0.01818	2	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
440/499	0.206G	0.02459	0.007856	0.01818	2	320:
57% #####7	23/40 [00:04<00:03,	5.47it/s]				
440/499	0.206G	0.02411	0.007838	0.01801	1	320:
57% #####7	23/40 [00:04<00:03,	5.47it/s]				
440/499	0.206G	0.02411	0.007838	0.01801	1	320:
60% #####	24/40 [00:04<00:02,	5.57it/s]				
440/499	0.206G	0.02356	0.008105	0.01766	1	320:
60% #####	24/40 [00:04<00:02,	5.57it/s]				
440/499	0.206G	0.02356	0.008105	0.01766	1	320:
62% #####2	25/40 [00:04<00:02,	5.64it/s]				
440/499	0.206G	0.02303	0.007955	0.01749	1	320:
62% #####2	25/40 [00:04<00:02,	5.64it/s]				
440/499	0.206G	0.02303	0.007955	0.01749	1	320:
65% #####5	26/40 [00:04<00:02,	5.67it/s]				
440/499	0.206G	0.02259	0.007816	0.01736	1	320:
65% #####5	26/40 [00:04<00:02,	5.67it/s]				
440/499	0.206G	0.02259	0.007816	0.01736	1	320:
68% #####7	27/40 [00:04<00:02,	5.72it/s]				
440/499	0.206G	0.02214	0.007776	0.01722	2	320:
68% #####7	27/40 [00:05<00:02,	5.72it/s]				
440/499	0.206G	0.02214	0.007776	0.01722	2	320:
70% #####	28/40 [00:05<00:02,	5.75it/s]				
440/499	0.206G	0.02218	0.008008	0.0172	4	320:
70% #####	28/40 [00:05<00:02,	5.75it/s]				
440/499	0.206G	0.02218	0.008008	0.0172	4	320:
72% #####2	29/40 [00:05<00:02,	5.45it/s]				

440/499	0.206G	0.02177	0.007879	0.01716	1	320:
72% #####2	29/40 [00:05<00:02,	5.45it/s]				
440/499	0.206G	0.02177	0.007879	0.01716	1	320:
75% #####5	30/40 [00:05<00:01,	5.55it/s]				
440/499	0.206G	0.02217	0.008308	0.0173	4	320:
75% #####5	30/40 [00:05<00:01,	5.55it/s]				
440/499	0.206G	0.02217	0.008308	0.0173	4	320:
78% #####7	31/40 [00:05<00:01,	5.63it/s]				
440/499	0.206G	0.02185	0.008253	0.01719	2	320:
78% #####7	31/40 [00:05<00:01,	5.63it/s]				
440/499	0.206G	0.02185	0.008253	0.01719	2	320:
80% #####	32/40 [00:05<00:01,	5.39it/s]				
440/499	0.206G	0.02185	0.008404	0.01734	3	320:
80% #####	32/40 [00:06<00:01,	5.39it/s]				
440/499	0.206G	0.02185	0.008404	0.01734	3	320:
82% #####2	33/40 [00:06<00:01,	5.24it/s]				
440/499	0.206G	0.02221	0.008737	0.01752	4	320:
82% #####2	33/40 [00:06<00:01,	5.24it/s]				
440/499	0.206G	0.02221	0.008737	0.01752	4	320:
85% #####5	34/40 [00:06<00:01,	5.13it/s]				
440/499	0.206G	0.02194	0.008675	0.01745	2	320:
85% #####5	34/40 [00:06<00:01,	5.13it/s]				
440/499	0.206G	0.02194	0.008675	0.01745	2	320:
88% #####7	35/40 [00:06<00:00,	5.07it/s]				
440/499	0.206G	0.02167	0.008598	0.01734	2	320:
88% #####7	35/40 [00:06<00:00,	5.07it/s]				
440/499	0.206G	0.02167	0.008598	0.01734	2	320:
90% #####	36/40 [00:06<00:00,	5.02it/s]				
440/499	0.206G	0.0217	0.008641	0.01756	2	320:
90% #####	36/40 [00:06<00:00,	5.02it/s]				
440/499	0.206G	0.0217	0.008641	0.01756	2	320:
92% #####2	37/40 [00:06<00:00,	4.98it/s]				
440/499	0.206G	0.02155	0.008614	0.01758	2	320:
92% #####2	37/40 [00:07<00:00,	4.98it/s]				
440/499	0.206G	0.02155	0.008614	0.01758	2	320:
95% #####5	38/40 [00:07<00:00,	4.96it/s]				
440/499	0.206G	0.02148	0.008717	0.01782	4	320:
95% #####5	38/40 [00:07<00:00,	4.96it/s]				
440/499	0.206G	0.02148	0.008717	0.01782	4	320:
98% #####7	39/40 [00:07<00:00,	4.95it/s]				
440/499	0.206G	0.02134	0.008694	0.01777	1	320:
98% #####7	39/40 [00:07<00:00,	4.95it/s]				
440/499	0.206G	0.02134	0.008694	0.01777	1	320:
100% #####	40/40 [00:07<00:00,	4.91it/s]				
440/499	0.206G	0.02134	0.008694	0.01777	1	320:
100% #####	40/40 [00:07<00:00,	5.38it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:01, 16.00it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 16.00it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 14.62it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 13.60it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 14.98it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 15.31it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 14.57it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:01<00:00, 15.31it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 16.13it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 16.07it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 15.38it/s]			
		all	40 40	0.975	0.975	0.989
0.807						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
441/499	0.206G	0.03141	0.005773	0.03418	2	320:
0%						
441/499	0.206G	0.03141	0.005773	0.03418	2	320:
2% 2						
441/499	0.206G	0.02604	0.0121	0.02954	4	320:
2% 2						
441/499	0.206G	0.02604	0.0121	0.02954	4	320:
5% 5						
441/499	0.206G	0.02159	0.009749	0.02583	1	320:
5% 5						
441/499	0.206G	0.02159	0.009749	0.02583	1	320:
8% 7						
441/499	0.206G	0.02617	0.01006	0.02501	4	320:
8% 7						
441/499	0.206G	0.02617	0.01006	0.02501	4	320:
10% #						
441/499	0.206G	0.02965	0.009727	0.02594	2	320:
10% #						
441/499	0.206G	0.02965	0.009727	0.02594	2	320:

12% #2	5/40 [00:00<00:06,	5.58it/s]				
441/499	0.206G	0.02669	0.008666	0.02348	1	320:
12% #2	5/40 [00:01<00:06,	5.58it/s]				
441/499	0.206G	0.02669	0.008666	0.02348	1	320:
15% #5	6/40 [00:01<00:05,	5.80it/s]				
441/499	0.206G	0.02483	0.008197	0.02264	2	320:
15% #5	6/40 [00:01<00:05,	5.80it/s]				
441/499	0.206G	0.02483	0.008197	0.02264	2	320:
18% #7	7/40 [00:01<00:05,	5.81it/s]				
441/499	0.206G	0.02576	0.00791	0.02405	2	320:
18% #7	7/40 [00:01<00:05,	5.81it/s]				
441/499	0.206G	0.02576	0.00791	0.02405	2	320:
20% ##	8/40 [00:01<00:05,	5.47it/s]				
441/499	0.206G	0.02763	0.008873	0.02361	4	320:
20% ##	8/40 [00:01<00:05,	5.47it/s]				
441/499	0.206G	0.02763	0.008873	0.02361	4	320:
22% ##2	9/40 [00:01<00:05,	5.43it/s]				
441/499	0.206G	0.02597	0.008632	0.02292	2	320:
22% ##2	9/40 [00:01<00:05,	5.43it/s]				
441/499	0.206G	0.02597	0.008632	0.02292	2	320:
25% ##5	10/40 [00:01<00:05,	5.40it/s]				
441/499	0.206G	0.02457	0.00825	0.02203	1	320:
25% ##5	10/40 [00:01<00:05,	5.40it/s]				
441/499	0.206G	0.02457	0.00825	0.02203	1	320:
28% ##7	11/40 [00:01<00:05,	5.50it/s]				
441/499	0.206G	0.02313	0.007758	0.02158	1	320:
28% ##7	11/40 [00:02<00:05,	5.50it/s]				
441/499	0.206G	0.02313	0.007758	0.02158	1	320:
30% ###	12/40 [00:02<00:04,	5.75it/s]				
441/499	0.206G	0.02251	0.007809	0.02154	2	320:
30% ###	12/40 [00:02<00:04,	5.75it/s]				
441/499	0.206G	0.02251	0.007809	0.02154	2	320:
32% ###2	13/40 [00:02<00:04,	5.62it/s]				
441/499	0.206G	0.02478	0.008076	0.02161	4	320:
32% ###2	13/40 [00:02<00:04,	5.62it/s]				
441/499	0.206G	0.02478	0.008076	0.02161	4	320:
35% ###5	14/40 [00:02<00:04,	5.50it/s]				
441/499	0.206G	0.0239	0.00798	0.02152	2	320:
35% ###5	14/40 [00:02<00:04,	5.50it/s]				
441/499	0.206G	0.0239	0.00798	0.02152	2	320:
38% ###7	15/40 [00:02<00:04,	5.74it/s]				
441/499	0.206G	0.02298	0.007718	0.02136	1	320:
38% ###7	15/40 [00:02<00:04,	5.74it/s]				
441/499	0.206G	0.02298	0.007718	0.02136	1	320:
40% ####	16/40 [00:02<00:04,	5.77it/s]				
441/499	0.206G	0.02238	0.007414	0.02101	1	320:
40% ####	16/40 [00:03<00:04,	5.77it/s]				
441/499	0.206G	0.02238	0.007414	0.02101	1	320:

42% ####2	17/40 [00:03<00:03, 5.78it/s]					
441/499	0.206G 0.02274 0.007418 0.02111	2	320:			
42% ####2	17/40 [00:03<00:03, 5.78it/s]					
441/499	0.206G 0.02274 0.007418 0.02111	2	320:			
45% ####5	18/40 [00:03<00:03, 5.79it/s]					
441/499	0.206G 0.02227 0.007309 0.02087	1	320:			
45% ####5	18/40 [00:03<00:03, 5.79it/s]					
441/499	0.206G 0.02227 0.007309 0.02087	1	320:			
48% ####7	19/40 [00:03<00:03, 5.80it/s]					
441/499	0.206G 0.02331 0.007894 0.02088	3	320:			
48% ####7	19/40 [00:03<00:03, 5.80it/s]					
441/499	0.206G 0.02331 0.007894 0.02088	3	320:			
50% #####	20/40 [00:03<00:03, 5.69it/s]					
441/499	0.206G 0.02318 0.00799 0.02056	2	320:			
50% #####	20/40 [00:03<00:03, 5.69it/s]					
441/499	0.206G 0.02318 0.00799 0.02056	2	320:			
52% ####2	21/40 [00:03<00:03, 5.81it/s]					
441/499	0.206G 0.02368 0.008291 0.02069	3	320:			
52% ####2	21/40 [00:03<00:03, 5.81it/s]					
441/499	0.206G 0.02368 0.008291 0.02069	3	320:			
55% ####5	22/40 [00:03<00:03, 5.66it/s]					
441/499	0.206G 0.02314 0.008105 0.02007	1	320:			
55% ####5	22/40 [00:04<00:03, 5.66it/s]					
441/499	0.206G 0.02314 0.008105 0.02007	1	320:			
57% ####7	23/40 [00:04<00:02, 5.79it/s]					
441/499	0.206G 0.02283 0.007971 0.0198	1	320:			
57% ####7	23/40 [00:04<00:02, 5.79it/s]					
441/499	0.206G 0.02283 0.007971 0.0198	1	320:			
60% #####	24/40 [00:04<00:02, 6.01it/s]					
441/499	0.206G 0.02309 0.008253 0.01993	4	320:			
60% #####	24/40 [00:04<00:02, 6.01it/s]					
441/499	0.206G 0.02309 0.008253 0.01993	4	320:			
62% ####2	25/40 [00:04<00:02, 5.95it/s]					
441/499	0.206G 0.02257 0.008246 0.01969	4	320:			
62% ####2	25/40 [00:04<00:02, 5.95it/s]					
441/499	0.206G 0.02257 0.008246 0.01969	4	320:			
65% ####5	26/40 [00:04<00:02, 5.73it/s]					
441/499	0.206G 0.02233 0.008464 0.01971	4	320:			
65% ####5	26/40 [00:04<00:02, 5.73it/s]					
441/499	0.206G 0.02233 0.008464 0.01971	4	320:			
68% ####7	27/40 [00:04<00:02, 5.62it/s]					
441/499	0.206G 0.02193 0.008539 0.01965	3	320:			
68% ####7	27/40 [00:04<00:02, 5.62it/s]					
441/499	0.206G 0.02193 0.008539 0.01965	3	320:			
70% #####	28/40 [00:04<00:02, 5.26it/s]					
441/499	0.206G 0.02166 0.008424 0.0195	1	320:			
70% #####	28/40 [00:05<00:02, 5.26it/s]					
441/499	0.206G 0.02166 0.008424 0.0195	1	320:			

72%	#####2		29/40	[00:05<00:02,	5.43it/s]					
	441/499		0.206G	0.02129	0.008314	0.01931	1	320:		
72%	#####2		29/40	[00:05<00:02,	5.43it/s]					
	441/499		0.206G	0.02129	0.008314	0.01931	1	320:		
75%	#####5		30/40	[00:05<00:01,	5.51it/s]					
	441/499		0.206G	0.02179	0.008297	0.01944	3	320:		
75%	#####5		30/40	[00:05<00:01,	5.51it/s]					
	441/499		0.206G	0.02179	0.008297	0.01944	3	320:		
78%	#####7		31/40	[00:05<00:01,	5.45it/s]					
	441/499		0.206G	0.02142	0.008165	0.01934	1	320:		
78%	#####7		31/40	[00:05<00:01,	5.45it/s]					
	441/499		0.206G	0.02142	0.008165	0.01934	1	320:		
80%	#####		32/40	[00:05<00:01,	5.41it/s]					
	441/499		0.206G	0.0221	0.008398	0.01976	2	320:		
80%	#####		32/40	[00:05<00:01,	5.41it/s]					
	441/499		0.206G	0.0221	0.008398	0.01976	2	320:		
82%	#####2		33/40	[00:05<00:01,	5.52it/s]					
	441/499		0.206G	0.02198	0.008372	0.0199	2	320:		
82%	#####2		33/40	[00:06<00:01,	5.52it/s]					
	441/499		0.206G	0.02198	0.008372	0.0199	2	320:		
85%	#####5		34/40	[00:06<00:01,	5.76it/s]					
	441/499		0.206G	0.02171	0.008217	0.01975	1	320:		
85%	#####5		34/40	[00:06<00:01,	5.76it/s]					
	441/499		0.206G	0.02171	0.008217	0.01975	1	320:		
88%	#####7		35/40	[00:06<00:00,	5.61it/s]					
	441/499		0.206G	0.02197	0.008319	0.02	4	320:		
88%	#####7		35/40	[00:06<00:00,	5.61it/s]					
	441/499		0.206G	0.02197	0.008319	0.02	4	320:		
90%	#####		36/40	[00:06<00:00,	5.38it/s]					
	441/499		0.206G	0.0216	0.00817	0.01984	1	320:		
90%	#####		36/40	[00:06<00:00,	5.38it/s]					
	441/499		0.206G	0.0216	0.00817	0.01984	1	320:		
92%	#####2		37/40	[00:06<00:00,	5.51it/s]					
	441/499		0.206G	0.02178	0.008512	0.01988	4	320:		
92%	#####2		37/40	[00:06<00:00,	5.51it/s]					
	441/499		0.206G	0.02178	0.008512	0.01988	4	320:		
95%	#####5		38/40	[00:06<00:00,	5.58it/s]					
	441/499		0.206G	0.0215	0.008491	0.01974	2	320:		
95%	#####5		38/40	[00:06<00:00,	5.58it/s]					
	441/499		0.206G	0.0215	0.008491	0.01974	2	320:		
98%	#####7		39/40	[00:06<00:00,	5.50it/s]					
	441/499		0.206G	0.0215	0.008661	0.01986	4	320:		
98%	#####7		39/40	[00:07<00:00,	5.50it/s]					
	441/499		0.206G	0.0215	0.008661	0.01986	4	320:		
100%	#####		40/40	[00:07<00:00,	5.44it/s]					
	441/499		0.206G	0.0215	0.008661	0.01986	4	320:		
100%	#####		40/40	[00:07<00:00,	5.61it/s]					

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 17.87it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 18.10it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 18.19it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 17.26it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 17.61it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 17.90it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 18.03it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 17.33it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 18.04it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 17.73it/s]			
	all	40	40	0.978	0.975	0.988

0.809

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
442/499	0.206G	0.04056	0.009625	0.02011	3	320:
0%		0/40	[00:00<?, ?it/s]			
442/499	0.206G	0.04056	0.009625	0.02011	3	320:
2% 2		1/40	[00:00<00:06, 5.82it/s]			
442/499	0.206G	0.02621	0.006535	0.01703	1	320:
2% 2		1/40	[00:00<00:06, 5.82it/s]			
442/499	0.206G	0.02621	0.006535	0.01703	1	320:
5% 5		2/40	[00:00<00:06, 5.77it/s]			
442/499	0.206G	0.02096	0.007216	0.01586	2	320:
5% 5		2/40	[00:00<00:06, 5.77it/s]			
442/499	0.206G	0.02096	0.007216	0.01586	2	320:
8% 7		3/40	[00:00<00:06, 5.79it/s]			
442/499	0.206G	0.02555	0.007672	0.01985	2	320:
8% 7		3/40	[00:00<00:06, 5.79it/s]			
442/499	0.206G	0.02555	0.007672	0.01985	2	320:
10% #		4/40	[00:00<00:06, 5.42it/s]			
442/499	0.206G	0.03201	0.007419	0.01987	2	320:
10% #		4/40	[00:00<00:06, 5.42it/s]			
442/499	0.206G	0.03201	0.007419	0.01987	2	320:
12% #2		5/40	[00:00<00:06, 5.37it/s]			

442/499	0.206G	0.03042	0.007546	0.02012	2	320:
12% #2	5/40 [00:01<00:06,	5.37it/s]				
442/499	0.206G	0.03042	0.007546	0.02012	2	320:
15% #5	6/40 [00:01<00:06,	5.51it/s]				
442/499	0.206G	0.02803	0.007824	0.02059	2	320:
15% #5	6/40 [00:01<00:06,	5.51it/s]				
442/499	0.206G	0.02803	0.007824	0.02059	2	320:
18% #7	7/40 [00:01<00:05,	5.61it/s]				
442/499	0.206G	0.02598	0.0073	0.01997	1	320:
18% #7	7/40 [00:01<00:05,	5.61it/s]				
442/499	0.206G	0.02598	0.0073	0.01997	1	320:
20% ##	8/40 [00:01<00:05,	5.65it/s]				
442/499	0.206G	0.02464	0.007447	0.01998	2	320:
20% ##	8/40 [00:01<00:05,	5.65it/s]				
442/499	0.206G	0.02464	0.007447	0.01998	2	320:
22% ##2	9/40 [00:01<00:05,	5.70it/s]				
442/499	0.206G	0.02521	0.008273	0.02024	4	320:
22% ##2	9/40 [00:01<00:05,	5.70it/s]				
442/499	0.206G	0.02521	0.008273	0.02024	4	320:
25% ##5	10/40 [00:01<00:05,	5.58it/s]				
442/499	0.206G	0.02371	0.008139	0.02002	2	320:
25% ##5	10/40 [00:01<00:05,	5.58it/s]				
442/499	0.206G	0.02371	0.008139	0.02002	2	320:
28% ##7	11/40 [00:01<00:05,	5.48it/s]				
442/499	0.206G	0.02322	0.00777	0.01951	1	320:
28% ##7	11/40 [00:02<00:05,	5.48it/s]				
442/499	0.206G	0.02322	0.00777	0.01951	1	320:
30% ###	12/40 [00:02<00:04,	5.73it/s]				
442/499	0.206G	0.02231	0.007535	0.01891	1	320:
30% ###	12/40 [00:02<00:04,	5.73it/s]				
442/499	0.206G	0.02231	0.007535	0.01891	1	320:
32% ###2	13/40 [00:02<00:04,	5.61it/s]				
442/499	0.206G	0.0214	0.007402	0.01866	1	320:
32% ###2	13/40 [00:02<00:04,	5.61it/s]				
442/499	0.206G	0.0214	0.007402	0.01866	1	320:
35% ###5	14/40 [00:02<00:04,	5.66it/s]				
442/499	0.206G	0.0208	0.00734	0.01859	2	320:
35% ###5	14/40 [00:02<00:04,	5.66it/s]				
442/499	0.206G	0.0208	0.00734	0.01859	2	320:
38% ###7	15/40 [00:02<00:04,	5.87it/s]				
442/499	0.206G	0.01975	0.007096	0.01826	1	320:
38% ###7	15/40 [00:02<00:04,	5.87it/s]				
442/499	0.206G	0.01975	0.007096	0.01826	1	320:
40% ####	16/40 [00:02<00:04,	5.69it/s]				
442/499	0.206G	0.01935	0.006881	0.01808	1	320:
40% ####	16/40 [00:03<00:04,	5.69it/s]				
442/499	0.206G	0.01935	0.006881	0.01808	1	320:
42% ####2	17/40 [00:03<00:04,	5.71it/s]				

442/499	0.206G	0.02065	0.007108	0.01815	3	320:
42% #####2	17/40 [00:03<00:04,	5.71it/s]				
442/499	0.206G	0.02065	0.007108	0.01815	3	320:
45% #####5	18/40 [00:03<00:03,	5.59it/s]				
442/499	0.206G	0.02133	0.00764	0.01843	4	320:
45% #####5	18/40 [00:03<00:03,	5.59it/s]				
442/499	0.206G	0.02133	0.00764	0.01843	4	320:
48% #####7	19/40 [00:03<00:03,	5.36it/s]				
442/499	0.206G	0.02171	0.007814	0.01842	2	320:
48% #####7	19/40 [00:03<00:03,	5.36it/s]				
442/499	0.206G	0.02171	0.007814	0.01842	2	320:
50% #####	20/40 [00:03<00:03,	5.35it/s]				
442/499	0.206G	0.02156	0.007768	0.01839	2	320:
50% #####	20/40 [00:03<00:03,	5.35it/s]				
442/499	0.206G	0.02156	0.007768	0.01839	2	320:
52% #####2	21/40 [00:03<00:03,	5.63it/s]				
442/499	0.206G	0.0224	0.00775	0.01896	2	320:
52% #####2	21/40 [00:03<00:03,	5.63it/s]				
442/499	0.206G	0.0224	0.00775	0.01896	2	320:
55% #####5	22/40 [00:03<00:03,	5.40it/s]				
442/499	0.206G	0.02177	0.007588	0.01896	1	320:
55% #####5	22/40 [00:04<00:03,	5.40it/s]				
442/499	0.206G	0.02177	0.007588	0.01896	1	320:
57% #####7	23/40 [00:04<00:03,	5.49it/s]				
442/499	0.206G	0.02157	0.007752	0.01887	4	320:
57% #####7	23/40 [00:04<00:03,	5.49it/s]				
442/499	0.206G	0.02157	0.007752	0.01887	4	320:
60% #####	24/40 [00:04<00:03,	5.18it/s]				
442/499	0.206G	0.02131	0.007813	0.01909	4	320:
60% #####	24/40 [00:04<00:03,	5.18it/s]				
442/499	0.206G	0.02131	0.007813	0.01909	4	320:
62% #####2	25/40 [00:04<00:02,	5.08it/s]				
442/499	0.206G	0.02149	0.008163	0.01937	4	320:
62% #####2	25/40 [00:04<00:02,	5.08it/s]				
442/499	0.206G	0.02149	0.008163	0.01937	4	320:
65% #####5	26/40 [00:04<00:02,	5.03it/s]				
442/499	0.206G	0.0211	0.008034	0.01928	1	320:
65% #####5	26/40 [00:04<00:02,	5.03it/s]				
442/499	0.206G	0.0211	0.008034	0.01928	1	320:
68% #####7	27/40 [00:04<00:02,	4.89it/s]				
442/499	0.206G	0.02132	0.008348	0.01953	4	320:
68% #####7	27/40 [00:05<00:02,	4.89it/s]				
442/499	0.206G	0.02132	0.008348	0.01953	4	320:
70% #####	28/40 [00:05<00:02,	4.88it/s]				
442/499	0.206G	0.02132	0.008502	0.01944	4	320:
70% #####	28/40 [00:05<00:02,	4.88it/s]				
442/499	0.206G	0.02132	0.008502	0.01944	4	320:
72% #####2	29/40 [00:05<00:02,	4.78it/s]				

442/499	0.206G	0.02114	0.008666	0.01959	4	320:
72% #####2	29/40 [00:05<00:02,	4.78it/s]				
442/499	0.206G	0.02114	0.008666	0.01959	4	320:
75% #####5	30/40 [00:05<00:02,	4.81it/s]				
442/499	0.206G	0.02068	0.008512	0.01931	1	320:
75% #####5	30/40 [00:05<00:02,	4.81it/s]				
442/499	0.206G	0.02068	0.008512	0.01931	1	320:
78% #####7	31/40 [00:05<00:01,	4.96it/s]				
442/499	0.206G	0.02039	0.008523	0.01915	4	320:
78% #####7	31/40 [00:05<00:01,	4.96it/s]				
442/499	0.206G	0.02039	0.008523	0.01915	4	320:
80% #####	32/40 [00:05<00:01,	5.06it/s]				
442/499	0.206G	0.02038	0.008511	0.01906	2	320:
80% #####	32/40 [00:06<00:01,	5.06it/s]				
442/499	0.206G	0.02038	0.008511	0.01906	2	320:
82% #####2	33/40 [00:06<00:01,	5.01it/s]				
442/499	0.206G	0.02017	0.008402	0.01885	1	320:
82% #####2	33/40 [00:06<00:01,	5.01it/s]				
442/499	0.206G	0.02017	0.008402	0.01885	1	320:
85% #####5	34/40 [00:06<00:01,	4.87it/s]				
442/499	0.206G	0.02068	0.008405	0.01901	2	320:
85% #####5	34/40 [00:06<00:01,	4.87it/s]				
442/499	0.206G	0.02068	0.008405	0.01901	2	320:
88% #####7	35/40 [00:06<00:01,	4.77it/s]				
442/499	0.206G	0.02032	0.008252	0.01886	1	320:
88% #####7	35/40 [00:06<00:01,	4.77it/s]				
442/499	0.206G	0.02032	0.008252	0.01886	1	320:
90% #####	36/40 [00:06<00:00,	4.93it/s]				
442/499	0.206G	0.02011	0.008351	0.01888	2	320:
90% #####	36/40 [00:06<00:00,	4.93it/s]				
442/499	0.206G	0.02011	0.008351	0.01888	2	320:
92% #####2	37/40 [00:06<00:00,	5.04it/s]				
442/499	0.206G	0.01975	0.008334	0.01879	2	320:
92% #####2	37/40 [00:07<00:00,	5.04it/s]				
442/499	0.206G	0.01975	0.008334	0.01879	2	320:
95% #####5	38/40 [00:07<00:00,	4.88it/s]				
442/499	0.206G	0.01951	0.008329	0.01883	2	320:
95% #####5	38/40 [00:07<00:00,	4.88it/s]				
442/499	0.206G	0.01951	0.008329	0.01883	2	320:
98% #####7	39/40 [00:07<00:00,	5.12it/s]				
442/499	0.206G	0.01933	0.008479	0.01885	2	320:
98% #####7	39/40 [00:07<00:00,	5.12it/s]				
442/499	0.206G	0.01933	0.008479	0.01885	2	320:
100% #####	40/40 [00:07<00:00,	5.19it/s]				
442/499	0.206G	0.01933	0.008479	0.01885	2	320:
100% #####	40/40 [00:07<00:00,	5.28it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:00, 18.08it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	20% ##		4/20 [00:00<00:00, 18.18it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	30% ###		6/20 [00:00<00:00, 16.13it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	40% ####		8/20 [00:00<00:00, 15.32it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	50% #####		10/20 [00:00<00:00, 16.13it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	60% #####		12/20 [00:00<00:00, 16.08it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	70% #####		14/20 [00:00<00:00, 16.74it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	80% #####		16/20 [00:00<00:00, 17.20it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	90% #####		18/20 [00:01<00:00, 17.52it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 16.30it/s]			
		Class	Images Instances	P	R	mAP50
mAP50-95:	100% #####		20/20 [00:01<00:00, 16.54it/s]			
		all	40 40	0.978	0.975	0.988
0.809						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%						
443/499	0.206G	0.008112	0.0104	0.0174	2	320:
0%						
443/499	0.206G	0.008112	0.0104	0.0174	2	320:
2% 2						
443/499	0.206G	0.01897	0.008935	0.01737	4	320:
2% 2						
443/499	0.206G	0.01897	0.008935	0.01737	4	320:
5% 5						
443/499	0.206G	0.01539	0.009311	0.01685	4	320:
5% 5						
443/499	0.206G	0.01539	0.009311	0.01685	4	320:
8% 7						
443/499	0.206G	0.02327	0.009378	0.01984	3	320:
8% 7						
443/499	0.206G	0.02327	0.009378	0.01984	3	320:
10% #						
443/499	0.206G	0.02082	0.008104	0.01892	1	320:
10% #						
443/499	0.206G	0.02082	0.008104	0.01892	1	320:

12% #2	5/40 [00:00<00:06,	5.49it/s]				
443/499	0.206G	0.01952	0.007788	0.01867	2	320:
12% #2	5/40 [00:01<00:06,	5.49it/s]				
443/499	0.206G	0.01952	0.007788	0.01867	2	320:
15% #5	6/40 [00:01<00:05,	5.77it/s]				
443/499	0.206G	0.01774	0.00714	0.01794	1	320:
15% #5	6/40 [00:01<00:05,	5.77it/s]				
443/499	0.206G	0.01774	0.00714	0.01794	1	320:
18% #7	7/40 [00:01<00:05,	5.78it/s]				
443/499	0.206G	0.01767	0.007723	0.01777	2	320:
18% #7	7/40 [00:01<00:05,	5.78it/s]				
443/499	0.206G	0.01767	0.007723	0.01777	2	320:
20% ##	8/40 [00:01<00:05,	5.79it/s]				
443/499	0.206G	0.01714	0.008176	0.01767	4	320:
20% ##	8/40 [00:01<00:05,	5.79it/s]				
443/499	0.206G	0.01714	0.008176	0.01767	4	320:
22% ##2	9/40 [00:01<00:05,	5.49it/s]				
443/499	0.206G	0.01638	0.008137	0.01745	2	320:
22% ##2	9/40 [00:01<00:05,	5.49it/s]				
443/499	0.206G	0.01638	0.008137	0.01745	2	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
443/499	0.206G	0.01688	0.008608	0.01741	4	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
443/499	0.206G	0.01688	0.008608	0.01741	4	320:
28% ##7	11/40 [00:01<00:05,	5.59it/s]				
443/499	0.206G	0.01617	0.008194	0.01699	1	320:
28% ##7	11/40 [00:02<00:05,	5.59it/s]				
443/499	0.206G	0.01617	0.008194	0.01699	1	320:
30% ###	12/40 [00:02<00:05,	5.37it/s]				
443/499	0.206G	0.01671	0.008284	0.01891	2	320:
30% ###	12/40 [00:02<00:05,	5.37it/s]				
443/499	0.206G	0.01671	0.008284	0.01891	2	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
443/499	0.206G	0.01674	0.008181	0.01899	2	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
443/499	0.206G	0.01674	0.008181	0.01899	2	320:
35% ###5	14/40 [00:02<00:04,	5.48it/s]				
443/499	0.206G	0.0168	0.008085	0.01877	1	320:
35% ###5	14/40 [00:02<00:04,	5.48it/s]				
443/499	0.206G	0.0168	0.008085	0.01877	1	320:
38% ###7	15/40 [00:02<00:04,	5.58it/s]				
443/499	0.206G	0.01636	0.007953	0.01861	2	320:
38% ###7	15/40 [00:02<00:04,	5.58it/s]				
443/499	0.206G	0.01636	0.007953	0.01861	2	320:
40% ####	16/40 [00:02<00:04,	5.62it/s]				
443/499	0.206G	0.01637	0.007663	0.01849	1	320:
40% ####	16/40 [00:03<00:04,	5.62it/s]				
443/499	0.206G	0.01637	0.007663	0.01849	1	320:

42% ####2	17/40 [00:03<00:04,	5.67it/s]				
443/499	0.206G	0.01844	0.007879	0.01861	2	320:
42% ####2	17/40 [00:03<00:04,	5.67it/s]				
443/499	0.206G	0.01844	0.007879	0.01861	2	320:
45% ####5	18/40 [00:03<00:03,	5.57it/s]				
443/499	0.206G	0.01834	0.007906	0.01838	2	320:
45% ####5	18/40 [00:03<00:03,	5.57it/s]				
443/499	0.206G	0.01834	0.007906	0.01838	2	320:
48% ####7	19/40 [00:03<00:03,	5.65it/s]				
443/499	0.206G	0.01967	0.008231	0.0185	4	320:
48% ####7	19/40 [00:03<00:03,	5.65it/s]				
443/499	0.206G	0.01967	0.008231	0.0185	4	320:
50% #####	20/40 [00:03<00:03,	5.55it/s]				
443/499	0.206G	0.01902	0.00797	0.01831	1	320:
50% #####	20/40 [00:03<00:03,	5.55it/s]				
443/499	0.206G	0.01902	0.00797	0.01831	1	320:
52% ####2	21/40 [00:03<00:03,	5.48it/s]				
443/499	0.206G	0.01845	0.007807	0.01801	1	320:
52% ####2	21/40 [00:03<00:03,	5.48it/s]				
443/499	0.206G	0.01845	0.007807	0.01801	1	320:
55% ####5	22/40 [00:03<00:03,	5.71it/s]				
443/499	0.206G	0.01856	0.00815	0.01841	4	320:
55% ####5	22/40 [00:04<00:03,	5.71it/s]				
443/499	0.206G	0.01856	0.00815	0.01841	4	320:
57% ####7	23/40 [00:04<00:03,	5.59it/s]				
443/499	0.206G	0.01882	0.00845	0.01866	4	320:
57% ####7	23/40 [00:04<00:03,	5.59it/s]				
443/499	0.206G	0.01882	0.00845	0.01866	4	320:
60% #####	24/40 [00:04<00:02,	5.51it/s]				
443/499	0.206G	0.01944	0.008551	0.01938	2	320:
60% #####	24/40 [00:04<00:02,	5.51it/s]				
443/499	0.206G	0.01944	0.008551	0.01938	2	320:
62% ####2	25/40 [00:04<00:02,	5.43it/s]				
443/499	0.206G	0.01921	0.00837	0.01918	1	320:
62% ####2	25/40 [00:04<00:02,	5.43it/s]				
443/499	0.206G	0.01921	0.00837	0.01918	1	320:
65% ####5	26/40 [00:04<00:02,	5.54it/s]				
443/499	0.206G	0.01927	0.008532	0.01907	4	320:
65% ####5	26/40 [00:04<00:02,	5.54it/s]				
443/499	0.206G	0.01927	0.008532	0.01907	4	320:
68% ####7	27/40 [00:04<00:02,	5.48it/s]				
443/499	0.206G	0.01953	0.008478	0.01924	2	320:
68% ####7	27/40 [00:05<00:02,	5.48it/s]				
443/499	0.206G	0.01953	0.008478	0.01924	2	320:
70% #####	28/40 [00:05<00:02,	5.42it/s]				
443/499	0.206G	0.01914	0.008405	0.01913	2	320:
70% #####	28/40 [00:05<00:02,	5.42it/s]				
443/499	0.206G	0.01914	0.008405	0.01913	2	320:

72%	#####2		29/40	[00:05<00:02,	5.39it/s]				
	443/499		0.206G	0.02028	0.008308	0.01915	2	320:	
72%	#####2		29/40	[00:05<00:02,	5.39it/s]				
	443/499		0.206G	0.02028	0.008308	0.01915	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.36it/s]				
	443/499		0.206G	0.02138	0.008364	0.01909	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.36it/s]				
	443/499		0.206G	0.02138	0.008364	0.01909	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.35it/s]				
	443/499		0.206G	0.02182	0.008319	0.01901	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.35it/s]				
	443/499		0.206G	0.02182	0.008319	0.01901	2	320:	
80%	#####		32/40	[00:05<00:01,	5.34it/s]				
	443/499		0.206G	0.02261	0.008235	0.01898	2	320:	
80%	#####		32/40	[00:05<00:01,	5.34it/s]				
	443/499		0.206G	0.02261	0.008235	0.01898	2	320:	
82%	#####2		33/40	[00:05<00:01,	5.46it/s]				
	443/499		0.206G	0.02228	0.008084	0.01885	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.46it/s]				
	443/499		0.206G	0.02228	0.008084	0.01885	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.56it/s]				
	443/499		0.206G	0.02237	0.008224	0.01886	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.56it/s]				
	443/499		0.206G	0.02237	0.008224	0.01886	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.63it/s]				
	443/499		0.206G	0.02219	0.008119	0.0192	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.63it/s]				
	443/499		0.206G	0.02219	0.008119	0.0192	1	320:	
90%	#####		36/40	[00:06<00:00,	5.67it/s]				
	443/499		0.206G	0.02173	0.008001	0.01912	1	320:	
90%	#####		36/40	[00:06<00:00,	5.67it/s]				
	443/499		0.206G	0.02173	0.008001	0.01912	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.73it/s]				
	443/499		0.206G	0.02142	0.007908	0.01894	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.73it/s]				
	443/499		0.206G	0.02142	0.007908	0.01894	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.61it/s]				
	443/499		0.206G	0.02112	0.007789	0.01883	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.61it/s]				
	443/499		0.206G	0.02112	0.007789	0.01883	1	320:	
98%	#####7		39/40	[00:06<00:00,	5.82it/s]				
	443/499		0.206G	0.02091	0.007728	0.01881	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.82it/s]				
	443/499		0.206G	0.02091	0.007728	0.01881	2	320:	
100%	#####		40/40	[00:07<00:00,	5.50it/s]				
	443/499		0.206G	0.02091	0.007728	0.01881	2	320:	
100%	#####		40/40	[00:07<00:00,	5.56it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 16.00it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 17.26it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 16.29it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 17.18it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 55% #####5		11/20	[00:00<00:00, 18.05it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 65% #####5		13/20	[00:00<00:00, 18.12it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		15/20	[00:00<00:00, 17.43it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:00<00:00, 16.93it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 16.64it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 17.24it/s]			
	all	40	40	0.97	0.972	0.989
0.805						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
444/499	0.206G	0.01397	0.003674	0.02288	1	320:
0%		0/40	[00:00<?, ?it/s]			
444/499	0.206G	0.01397	0.003674	0.02288	1	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
444/499	0.206G	0.01561	0.009258	0.02768	4	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
444/499	0.206G	0.01561	0.009258	0.02768	4	320:
5% 5		2/40	[00:00<00:06, 6.04it/s]			
444/499	0.206G	0.0199	0.008701	0.02864	2	320:
5% 5		2/40	[00:00<00:06, 6.04it/s]			
444/499	0.206G	0.0199	0.008701	0.02864	2	320:
8% 7		3/40	[00:00<00:07, 5.26it/s]			
444/499	0.206G	0.02108	0.01005	0.02714	4	320:
8% 7		3/40	[00:00<00:07, 5.26it/s]			
444/499	0.206G	0.02108	0.01005	0.02714	4	320:
10% #		4/40	[00:00<00:06, 5.29it/s]			
444/499	0.206G	0.01828	0.008605	0.02458	1	320:
10% #		4/40	[00:00<00:06, 5.29it/s]			
444/499	0.206G	0.01828	0.008605	0.02458	1	320:
12% #2		5/40	[00:00<00:06, 5.41it/s]			

444/499	0.206G	0.01741	0.00819	0.02341	2	320:
12% #2	5/40 [00:01<00:06,	5.41it/s]				
444/499	0.206G	0.01741	0.00819	0.02341	2	320:
15% #5	6/40 [00:01<00:06,	5.57it/s]				
444/499	0.206G	0.01604	0.007555	0.02213	1	320:
15% #5	6/40 [00:01<00:06,	5.57it/s]				
444/499	0.206G	0.01604	0.007555	0.02213	1	320:
18% #7	7/40 [00:01<00:05,	5.82it/s]				
444/499	0.206G	0.01479	0.00697	0.02094	1	320:
18% #7	7/40 [00:01<00:05,	5.82it/s]				
444/499	0.206G	0.01479	0.00697	0.02094	1	320:
20% ##	8/40 [00:01<00:05,	5.80it/s]				
444/499	0.206G	0.01543	0.007875	0.02076	4	320:
20% ##	8/40 [00:01<00:05,	5.80it/s]				
444/499	0.206G	0.01543	0.007875	0.02076	4	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
444/499	0.206G	0.01712	0.008555	0.02186	4	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
444/499	0.206G	0.01712	0.008555	0.02186	4	320:
25% ##5	10/40 [00:01<00:05,	5.54it/s]				
444/499	0.206G	0.01638	0.008198	0.02134	2	320:
25% ##5	10/40 [00:01<00:05,	5.54it/s]				
444/499	0.206G	0.01638	0.008198	0.02134	2	320:
28% ##7	11/40 [00:01<00:05,	5.58it/s]				
444/499	0.206G	0.01615	0.007805	0.02064	1	320:
28% ##7	11/40 [00:02<00:05,	5.58it/s]				
444/499	0.206G	0.01615	0.007805	0.02064	1	320:
30% ###	12/40 [00:02<00:04,	5.67it/s]				
444/499	0.206G	0.01671	0.00868	0.02069	4	320:
30% ###	12/40 [00:02<00:04,	5.67it/s]				
444/499	0.206G	0.01671	0.00868	0.02069	4	320:
32% ###2	13/40 [00:02<00:04,	5.42it/s]				
444/499	0.206G	0.01627	0.008459	0.02017	1	320:
32% ###2	13/40 [00:02<00:04,	5.42it/s]				
444/499	0.206G	0.01627	0.008459	0.02017	1	320:
35% ###5	14/40 [00:02<00:04,	5.38it/s]				
444/499	0.206G	0.01565	0.008069	0.01957	1	320:
35% ###5	14/40 [00:02<00:04,	5.38it/s]				
444/499	0.206G	0.01565	0.008069	0.01957	1	320:
38% ###7	15/40 [00:02<00:04,	5.23it/s]				
444/499	0.206G	0.01619	0.008215	0.01939	3	320:
38% ###7	15/40 [00:02<00:04,	5.23it/s]				
444/499	0.206G	0.01619	0.008215	0.01939	3	320:
40% ####	16/40 [00:02<00:04,	5.01it/s]				
444/499	0.206G	0.01753	0.008154	0.01962	2	320:
40% ####	16/40 [00:03<00:04,	5.01it/s]				
444/499	0.206G	0.01753	0.008154	0.01962	2	320:
42% ####2	17/40 [00:03<00:04,	4.98it/s]				

444/499	0.206G	0.01768	0.008574	0.01973	4	320:
42% #####2	17/40 [00:03<00:04,	4.98it/s]				
444/499	0.206G	0.01768	0.008574	0.01973	4	320:
45% #####5	18/40 [00:03<00:04,	4.96it/s]				
444/499	0.206G	0.01734	0.008266	0.01947	1	320:
45% #####5	18/40 [00:03<00:04,	4.96it/s]				
444/499	0.206G	0.01734	0.008266	0.01947	1	320:
48% #####7	19/40 [00:03<00:04,	4.86it/s]				
444/499	0.206G	0.01953	0.008033	0.02041	2	320:
48% #####7	19/40 [00:03<00:04,	4.86it/s]				
444/499	0.206G	0.01953	0.008033	0.02041	2	320:
50% #####	20/40 [00:03<00:04,	4.85it/s]				
444/499	0.206G	0.01956	0.008338	0.02065	4	320:
50% #####	20/40 [00:03<00:04,	4.85it/s]				
444/499	0.206G	0.01956	0.008338	0.02065	4	320:
52% #####2	21/40 [00:03<00:03,	4.76it/s]				
444/499	0.206G	0.01951	0.008155	0.02043	2	320:
52% #####2	21/40 [00:04<00:03,	4.76it/s]				
444/499	0.206G	0.01951	0.008155	0.02043	2	320:
55% #####5	22/40 [00:04<00:03,	4.90it/s]				
444/499	0.206G	0.01866	0.007931	0.01955	0	320:
55% #####5	22/40 [00:04<00:03,	4.90it/s]				
444/499	0.206G	0.01866	0.007931	0.01955	0	320:
57% #####7	23/40 [00:04<00:03,	5.27it/s]				
444/499	0.206G	0.01906	0.007975	0.01947	2	320:
57% #####7	23/40 [00:04<00:03,	5.27it/s]				
444/499	0.206G	0.01906	0.007975	0.01947	2	320:
60% #####	24/40 [00:04<00:03,	5.16it/s]				
444/499	0.206G	0.01863	0.007811	0.0193	1	320:
60% #####	24/40 [00:04<00:03,	5.16it/s]				
444/499	0.206G	0.01863	0.007811	0.0193	1	320:
62% #####2	25/40 [00:04<00:02,	5.08it/s]				
444/499	0.206G	0.01854	0.007684	0.01906	1	320:
62% #####2	25/40 [00:04<00:02,	5.08it/s]				
444/499	0.206G	0.01854	0.007684	0.01906	1	320:
65% #####5	26/40 [00:04<00:02,	5.15it/s]				
444/499	0.206G	0.01897	0.007575	0.01883	1	320:
65% #####5	26/40 [00:05<00:02,	5.15it/s]				
444/499	0.206G	0.01897	0.007575	0.01883	1	320:
68% #####7	27/40 [00:05<00:02,	5.06it/s]				
444/499	0.206G	0.01861	0.007404	0.01861	1	320:
68% #####7	27/40 [00:05<00:02,	5.06it/s]				
444/499	0.206G	0.01861	0.007404	0.01861	1	320:
70% #####	28/40 [00:05<00:02,	5.14it/s]				
444/499	0.206G	0.01834	0.007331	0.01851	2	320:
70% #####	28/40 [00:05<00:02,	5.14it/s]				
444/499	0.206G	0.01834	0.007331	0.01851	2	320:
72% #####2	29/40 [00:05<00:02,	5.47it/s]				

444/499	0.206G	0.01809	0.007358	0.01835	2	320:
72% #####2	29/40 [00:05<00:02,	5.47it/s]				
444/499	0.206G	0.01809	0.007358	0.01835	2	320:
75% #####5	30/40 [00:05<00:01,	5.29it/s]				
444/499	0.206G	0.0185	0.007707	0.01842	4	320:
75% #####5	30/40 [00:05<00:01,	5.29it/s]				
444/499	0.206G	0.0185	0.007707	0.01842	4	320:
78% #####7	31/40 [00:05<00:01,	5.30it/s]				
444/499	0.206G	0.0191	0.008039	0.0185	4	320:
78% #####7	31/40 [00:06<00:01,	5.30it/s]				
444/499	0.206G	0.0191	0.008039	0.0185	4	320:
80% #####	32/40 [00:06<00:01,	5.45it/s]				
444/499	0.206G	0.01885	0.007926	0.0183	1	320:
80% #####	32/40 [00:06<00:01,	5.45it/s]				
444/499	0.206G	0.01885	0.007926	0.0183	1	320:
82% #####2	33/40 [00:06<00:01,	5.53it/s]				
444/499	0.206G	0.0195	0.008025	0.01844	4	320:
82% #####2	33/40 [00:06<00:01,	5.53it/s]				
444/499	0.206G	0.0195	0.008025	0.01844	4	320:
85% #####5	34/40 [00:06<00:01,	5.61it/s]				
444/499	0.206G	0.01933	0.007987	0.01846	2	320:
85% #####5	34/40 [00:06<00:01,	5.61it/s]				
444/499	0.206G	0.01933	0.007987	0.01846	2	320:
88% #####7	35/40 [00:06<00:00,	5.52it/s]				
444/499	0.206G	0.01934	0.007901	0.01833	1	320:
88% #####7	35/40 [00:06<00:00,	5.52it/s]				
444/499	0.206G	0.01934	0.007901	0.01833	1	320:
90% #####	36/40 [00:06<00:00,	5.18it/s]				
444/499	0.206G	0.01939	0.008025	0.01852	4	320:
90% #####	36/40 [00:06<00:00,	5.18it/s]				
444/499	0.206G	0.01939	0.008025	0.01852	4	320:
92% #####2	37/40 [00:06<00:00,	5.36it/s]				
444/499	0.206G	0.01952	0.008207	0.01865	4	320:
92% #####2	37/40 [00:07<00:00,	5.36it/s]				
444/499	0.206G	0.01952	0.008207	0.01865	4	320:
95% #####5	38/40 [00:07<00:00,	5.35it/s]				
444/499	0.206G	0.01926	0.008078	0.01864	1	320:
95% #####5	38/40 [00:07<00:00,	5.35it/s]				
444/499	0.206G	0.01926	0.008078	0.01864	1	320:
98% #####7	39/40 [00:07<00:00,	5.46it/s]				
444/499	0.206G	0.01904	0.00802	0.0185	2	320:
98% #####7	39/40 [00:07<00:00,	5.46it/s]				
444/499	0.206G	0.01904	0.00802	0.0185	2	320:
100% #####	40/40 [00:07<00:00,	5.57it/s]				
444/499	0.206G	0.01904	0.00802	0.0185	2	320:
100% #####	40/40 [00:07<00:00,	5.33it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:01, 15.99it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20 [00:00<00:01, 14.76it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20 [00:00<00:00, 15.25it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20 [00:00<00:00, 15.54it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20 [00:00<00:00, 16.43it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	65% #####5	13/20 [00:00<00:00, 17.01it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	15/20 [00:00<00:00, 17.17it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20 [00:01<00:00, 17.48it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20 [00:01<00:00, 16.37it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.57it/s]				
	all	40	40	0.966	0.975	0.992
0.813						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
445/499	0.206G	0.01705	0.01219	0.01906	4	320:
0%	0/40 [00:00<?, ?it/s]					
445/499	0.206G	0.01705	0.01219	0.01906	4	320:
2% 2	1/40 [00:00<00:06, 5.82it/s]					
445/499	0.206G	0.01333	0.007744	0.01507	1	320:
2% 2	1/40 [00:00<00:06, 5.82it/s]					
445/499	0.206G	0.01333	0.007744	0.01507	1	320:
5% 5	2/40 [00:00<00:06, 5.79it/s]					
445/499	0.206G	0.01974	0.009318	0.01756	4	320:
5% 5	2/40 [00:00<00:06, 5.79it/s]					
445/499	0.206G	0.01974	0.009318	0.01756	4	320:
8% 7	3/40 [00:00<00:06, 5.79it/s]					
445/499	0.206G	0.01701	0.007732	0.01816	1	320:
8% 7	3/40 [00:00<00:06, 5.79it/s]					
445/499	0.206G	0.01701	0.007732	0.01816	1	320:
10% #	4/40 [00:00<00:06, 5.80it/s]					
445/499	0.206G	0.02217	0.008165	0.0203	2	320:
10% #	4/40 [00:00<00:06, 5.80it/s]					
445/499	0.206G	0.02217	0.008165	0.0203	2	320:
12% #2	5/40 [00:00<00:06, 5.66it/s]					
445/499	0.206G	0.02369	0.00935	0.02145	4	320:

12% #2	5/40 [00:01<00:06,	5.66it/s]				
445/499	0.206G	0.02369	0.00935	0.02145	4	320:
15% #5	6/40 [00:01<00:05,	5.67it/s]				
445/499	0.206G	0.02031	0.008311	0.01839	0	320:
15% #5	6/40 [00:01<00:05,	5.67it/s]				
445/499	0.206G	0.02031	0.008311	0.01839	0	320:
18% #7	7/40 [00:01<00:05,	6.07it/s]				
445/499	0.206G	0.0188	0.007778	0.01763	1	320:
18% #7	7/40 [00:01<00:05,	6.07it/s]				
445/499	0.206G	0.0188	0.007778	0.01763	1	320:
20% ##	8/40 [00:01<00:05,	5.97it/s]				
445/499	0.206G	0.01799	0.007213	0.01775	1	320:
20% ##	8/40 [00:01<00:05,	5.97it/s]				
445/499	0.206G	0.01799	0.007213	0.01775	1	320:
22% ##2	9/40 [00:01<00:05,	5.91it/s]				
445/499	0.206G	0.01798	0.007868	0.01766	4	320:
22% ##2	9/40 [00:01<00:05,	5.91it/s]				
445/499	0.206G	0.01798	0.007868	0.01766	4	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
445/499	0.206G	0.01881	0.007821	0.01884	2	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
445/499	0.206G	0.01881	0.007821	0.01884	2	320:
28% ##7	11/40 [00:01<00:05,	5.58it/s]				
445/499	0.206G	0.01839	0.007467	0.01912	1	320:
28% ##7	11/40 [00:02<00:05,	5.58it/s]				
445/499	0.206G	0.01839	0.007467	0.01912	1	320:
30% ###	12/40 [00:02<00:05,	5.51it/s]				
445/499	0.206G	0.02089	0.00759	0.01876	2	320:
30% ###	12/40 [00:02<00:05,	5.51it/s]				
445/499	0.206G	0.02089	0.00759	0.01876	2	320:
32% ###2	13/40 [00:02<00:04,	5.60it/s]				
445/499	0.206G	0.02059	0.00751	0.01841	1	320:
32% ###2	13/40 [00:02<00:04,	5.60it/s]				
445/499	0.206G	0.02059	0.00751	0.01841	1	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
445/499	0.206G	0.01987	0.007225	0.01791	1	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
445/499	0.206G	0.01987	0.007225	0.01791	1	320:
38% ###7	15/40 [00:02<00:04,	5.70it/s]				
445/499	0.206G	0.01915	0.00697	0.01777	1	320:
38% ###7	15/40 [00:02<00:04,	5.70it/s]				
445/499	0.206G	0.01915	0.00697	0.01777	1	320:
40% ####	16/40 [00:02<00:04,	5.72it/s]				
445/499	0.206G	0.0217	0.006866	0.01798	2	320:
40% ####	16/40 [00:02<00:04,	5.72it/s]				
445/499	0.206G	0.0217	0.006866	0.01798	2	320:
42% ####2	17/40 [00:02<00:04,	5.62it/s]				
445/499	0.206G	0.02131	0.006671	0.01817	1	320:

42% ####2	17/40 [00:03<00:04,	5.62it/s]				
445/499	0.206G	0.02131	0.006671	0.01817	1	320:
45% ####5	18/40 [00:03<00:03,	5.80it/s]				
445/499	0.206G	0.02101	0.006951	0.01835	4	320:
45% ####5	18/40 [00:03<00:03,	5.80it/s]				
445/499	0.206G	0.02101	0.006951	0.01835	4	320:
48% ####7	19/40 [00:03<00:03,	5.65it/s]				
445/499	0.206G	0.02111	0.007313	0.01837	4	320:
48% ####7	19/40 [00:03<00:03,	5.65it/s]				
445/499	0.206G	0.02111	0.007313	0.01837	4	320:
50% #####	20/40 [00:03<00:03,	5.50it/s]				
445/499	0.206G	0.02113	0.007536	0.01852	4	320:
50% #####	20/40 [00:03<00:03,	5.50it/s]				
445/499	0.206G	0.02113	0.007536	0.01852	4	320:
52% #####2	21/40 [00:03<00:03,	5.63it/s]				
445/499	0.206G	0.02049	0.00732	0.01827	1	320:
52% #####2	21/40 [00:03<00:03,	5.63it/s]				
445/499	0.206G	0.02049	0.00732	0.01827	1	320:
55% #####5	22/40 [00:03<00:03,	5.68it/s]				
445/499	0.206G	0.02009	0.007181	0.01811	1	320:
55% #####5	22/40 [00:04<00:03,	5.68it/s]				
445/499	0.206G	0.02009	0.007181	0.01811	1	320:
57% #####7	23/40 [00:04<00:03,	5.57it/s]				
445/499	0.206G	0.02023	0.007602	0.01814	4	320:
57% #####7	23/40 [00:04<00:03,	5.57it/s]				
445/499	0.206G	0.02023	0.007602	0.01814	4	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
445/499	0.206G	0.02059	0.007654	0.018	2	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
445/499	0.206G	0.02059	0.007654	0.018	2	320:
62% #####2	25/40 [00:04<00:02,	5.54it/s]				
445/499	0.206G	0.02047	0.007516	0.01809	1	320:
62% #####2	25/40 [00:04<00:02,	5.54it/s]				
445/499	0.206G	0.02047	0.007516	0.01809	1	320:
65% #####5	26/40 [00:04<00:02,	5.47it/s]				
445/499	0.206G	0.02024	0.007748	0.01882	4	320:
65% #####5	26/40 [00:04<00:02,	5.47it/s]				
445/499	0.206G	0.02024	0.007748	0.01882	4	320:
68% #####7	27/40 [00:04<00:02,	5.57it/s]				
445/499	0.206G	0.0206	0.007737	0.01885	2	320:
68% #####7	27/40 [00:04<00:02,	5.57it/s]				
445/499	0.206G	0.0206	0.007737	0.01885	2	320:
70% #####	28/40 [00:04<00:02,	5.50it/s]				
445/499	0.206G	0.02019	0.007636	0.01871	1	320:
70% #####	28/40 [00:05<00:02,	5.50it/s]				
445/499	0.206G	0.02019	0.007636	0.01871	1	320:
72% #####2	29/40 [00:05<00:01,	5.71it/s]				
445/499	0.206G	0.01997	0.007485	0.01862	1	320:

72%	#####2		29/40	[00:05<00:01,	5.71it/s]					
	445/499		0.206G	0.01997	0.007485	0.01862	1	320:		
75%	#####5		30/40	[00:05<00:01,	5.78it/s]					
	445/499		0.206G	0.01968	0.007449	0.0185	1	320:		
75%	#####5		30/40	[00:05<00:01,	5.78it/s]					
	445/499		0.206G	0.01968	0.007449	0.0185	1	320:		
78%	#####7		31/40	[00:05<00:01,	5.63it/s]					
	445/499		0.206G	0.01968	0.007677	0.0187	4	320:		
78%	#####7		31/40	[00:05<00:01,	5.63it/s]					
	445/499		0.206G	0.01968	0.007677	0.0187	4	320:		
80%	#####		32/40	[00:05<00:01,	5.64it/s]					
	445/499		0.206G	0.01949	0.00788	0.01864	4	320:		
80%	#####		32/40	[00:05<00:01,	5.64it/s]					
	445/499		0.206G	0.01949	0.00788	0.01864	4	320:		
82%	#####2		33/40	[00:05<00:01,	5.54it/s]					
	445/499		0.206G	0.01933	0.007862	0.01863	2	320:		
82%	#####2		33/40	[00:05<00:01,	5.54it/s]					
	445/499		0.206G	0.01933	0.007862	0.01863	2	320:		
85%	#####5		34/40	[00:05<00:01,	5.77it/s]					
	445/499		0.206G	0.01909	0.007731	0.01849	1	320:		
85%	#####5		34/40	[00:06<00:01,	5.77it/s]					
	445/499		0.206G	0.01909	0.007731	0.01849	1	320:		
88%	#####7		35/40	[00:06<00:00,	5.62it/s]					
	445/499		0.206G	0.0195	0.007927	0.01864	4	320:		
88%	#####7		35/40	[00:06<00:00,	5.62it/s]					
	445/499		0.206G	0.0195	0.007927	0.01864	4	320:		
90%	#####		36/40	[00:06<00:00,	5.67it/s]					
	445/499		0.206G	0.01957	0.00817	0.0186	4	320:		
90%	#####		36/40	[00:06<00:00,	5.67it/s]					
	445/499		0.206G	0.01957	0.00817	0.0186	4	320:		
92%	#####2		37/40	[00:06<00:00,	5.72it/s]					
	445/499		0.206G	0.01924	0.008024	0.01841	1	320:		
92%	#####2		37/40	[00:06<00:00,	5.72it/s]					
	445/499		0.206G	0.01924	0.008024	0.01841	1	320:		
95%	#####5		38/40	[00:06<00:00,	5.62it/s]					
	445/499		0.206G	0.01971	0.007988	0.01837	3	320:		
95%	#####5		38/40	[00:06<00:00,	5.62it/s]					
	445/499		0.206G	0.01971	0.007988	0.01837	3	320:		
98%	#####7		39/40	[00:06<00:00,	5.63it/s]					
	445/499		0.206G	0.0196	0.007916	0.01838	2	320:		
98%	#####7		39/40	[00:07<00:00,	5.63it/s]					
	445/499		0.206G	0.0196	0.007916	0.01838	2	320:		
100%	#####		40/40	[00:07<00:00,	5.84it/s]					
	445/499		0.206G	0.0196	0.007916	0.01838	2	320:		
100%	#####		40/40	[00:07<00:00,	5.68it/s]					

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 13.09it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 25% ##5		5/20	[00:00<00:00, 16.50it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 35% ###5		7/20	[00:00<00:00, 17.16it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 45% ####5		9/20	[00:00<00:00, 17.55it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 55% #####5		11/20	[00:00<00:00, 17.79it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 65% #####5		13/20	[00:00<00:00, 17.78it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		15/20	[00:00<00:00, 16.47it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:01<00:00, 16.99it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 16.65it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 17.01it/s]			
	all	40	40	0.966	0.975	0.992

0.813

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
446/499	0.206G	0.05408	0.01158	0.01989	3	320:
0%	0/40	[00:00<?, ?it/s]				
446/499	0.206G	0.05408	0.01158	0.01989	3	320:
2% 2	1/40	[00:00<00:06, 5.82it/s]				
446/499	0.206G	0.03389	0.009461	0.01756	2	320:
2% 2	1/40	[00:00<00:06, 5.82it/s]				
446/499	0.206G	0.03389	0.009461	0.01756	2	320:
5% 5	2/40	[00:00<00:06, 5.80it/s]				
446/499	0.206G	0.02663	0.008309	0.01751	2	320:
5% 5	2/40	[00:00<00:06, 5.80it/s]				
446/499	0.206G	0.02663	0.008309	0.01751	2	320:
8% 7	3/40	[00:00<00:06, 5.58it/s]				
446/499	0.206G	0.02373	0.007058	0.01672	1	320:
8% 7	3/40	[00:00<00:06, 5.58it/s]				
446/499	0.206G	0.02373	0.007058	0.01672	1	320:
10% #	4/40	[00:00<00:06, 5.48it/s]				
446/499	0.206G	0.02374	0.008661	0.0168	4	320:
10% #	4/40	[00:00<00:06, 5.48it/s]				
446/499	0.206G	0.02374	0.008661	0.0168	4	320:
12% #2	5/40	[00:00<00:06, 5.08it/s]				
446/499	0.206G	0.02208	0.008692	0.01643	2	320:
12% #2	5/40	[00:01<00:06, 5.08it/s]				

446/499	0.206G	0.02208	0.008692	0.01643	2	320:
15% #5	6/40 [00:01<00:06,	5.03it/s]				
446/499	0.206G	0.02226	0.008544	0.02152	2	320:
15% #5	6/40 [00:01<00:06,	5.03it/s]				
446/499	0.206G	0.02226	0.008544	0.02152	2	320:
18% #7	7/40 [00:01<00:06,	5.12it/s]				
446/499	0.206G	0.02114	0.008422	0.02053	2	320:
18% #7	7/40 [00:01<00:06,	5.12it/s]				
446/499	0.206G	0.02114	0.008422	0.02053	2	320:
20% ##	8/40 [00:01<00:06,	5.05it/s]				
446/499	0.206G	0.02053	0.007923	0.0198	1	320:
20% ##	8/40 [00:01<00:06,	5.05it/s]				
446/499	0.206G	0.02053	0.007923	0.0198	1	320:
22% ##2	9/40 [00:01<00:06,	4.89it/s]				
446/499	0.206G	0.02052	0.008416	0.01977	4	320:
22% ##2	9/40 [00:01<00:06,	4.89it/s]				
446/499	0.206G	0.02052	0.008416	0.01977	4	320:
25% ##5	10/40 [00:01<00:06,	4.89it/s]				
446/499	0.206G	0.01992	0.007886	0.01951	1	320:
25% ##5	10/40 [00:02<00:06,	4.89it/s]				
446/499	0.206G	0.01992	0.007886	0.01951	1	320:
28% ##7	11/40 [00:02<00:05,	4.90it/s]				
446/499	0.206G	0.02065	0.007875	0.01964	2	320:
28% ##7	11/40 [00:02<00:05,	4.90it/s]				
446/499	0.206G	0.02065	0.007875	0.01964	2	320:
30% ###	12/40 [00:02<00:05,	4.83it/s]				
446/499	0.206G	0.02069	0.008359	0.0198	4	320:
30% ###	12/40 [00:02<00:05,	4.83it/s]				
446/499	0.206G	0.02069	0.008359	0.0198	4	320:
32% ###2	13/40 [00:02<00:05,	4.92it/s]				
446/499	0.206G	0.01979	0.00801	0.01965	1	320:
32% ###2	13/40 [00:02<00:05,	4.92it/s]				
446/499	0.206G	0.01979	0.00801	0.01965	1	320:
35% ###5	14/40 [00:02<00:05,	4.92it/s]				
446/499	0.206G	0.01923	0.00769	0.01936	1	320:
35% ###5	14/40 [00:02<00:05,	4.92it/s]				
446/499	0.206G	0.01923	0.00769	0.01936	1	320:
38% ###7	15/40 [00:02<00:05,	4.90it/s]				
446/499	0.206G	0.01842	0.007394	0.01908	1	320:
38% ###7	15/40 [00:03<00:05,	4.90it/s]				
446/499	0.206G	0.01842	0.007394	0.01908	1	320:
40% ####	16/40 [00:03<00:04,	4.91it/s]				
446/499	0.206G	0.01814	0.007321	0.01898	1	320:
40% ####	16/40 [00:03<00:04,	4.91it/s]				
446/499	0.206G	0.01814	0.007321	0.01898	1	320:
42% ####2	17/40 [00:03<00:04,	5.15it/s]				
446/499	0.206G	0.02019	0.007411	0.01897	3	320:
42% ####2	17/40 [00:03<00:04,	5.15it/s]				

446/499	0.206G	0.02019	0.007411	0.01897	3	320:
45% #####5	18/40 [00:03<00:04,	5.07it/s]				
446/499	0.206G	0.01988	0.007209	0.01875	1	320:
45% #####5	18/40 [00:03<00:04,	5.07it/s]				
446/499	0.206G	0.01988	0.007209	0.01875	1	320:
48% #####7	19/40 [00:03<00:03,	5.27it/s]				
446/499	0.206G	0.01986	0.007604	0.01866	4	320:
48% #####7	19/40 [00:03<00:03,	5.27it/s]				
446/499	0.206G	0.01986	0.007604	0.01866	4	320:
50% #####	20/40 [00:03<00:04,	4.92it/s]				
446/499	0.206G	0.01982	0.0076	0.0188	2	320:
50% #####	20/40 [00:04<00:04,	4.92it/s]				
446/499	0.206G	0.01982	0.0076	0.0188	2	320:
52% #####2	21/40 [00:04<00:03,	5.16it/s]				
446/499	0.206G	0.02033	0.007767	0.0191	4	320:
52% #####2	21/40 [00:04<00:03,	5.16it/s]				
446/499	0.206G	0.02033	0.007767	0.0191	4	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
446/499	0.206G	0.02099	0.007758	0.01896	2	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
446/499	0.206G	0.02099	0.007758	0.01896	2	320:
57% #####7	23/40 [00:04<00:03,	5.31it/s]				
446/499	0.206G	0.02056	0.007714	0.01885	2	320:
57% #####7	23/40 [00:04<00:03,	5.31it/s]				
446/499	0.206G	0.02056	0.007714	0.01885	2	320:
60% #####	24/40 [00:04<00:02,	5.59it/s]				
446/499	0.206G	0.02134	0.008095	0.01922	4	320:
60% #####	24/40 [00:04<00:02,	5.59it/s]				
446/499	0.206G	0.02134	0.008095	0.01922	4	320:
62% #####2	25/40 [00:04<00:02,	5.51it/s]				
446/499	0.206G	0.02118	0.008104	0.01905	1	320:
62% #####2	25/40 [00:05<00:02,	5.51it/s]				
446/499	0.206G	0.02118	0.008104	0.01905	1	320:
65% #####5	26/40 [00:05<00:02,	5.48it/s]				
446/499	0.206G	0.02095	0.008344	0.01902	4	320:
65% #####5	26/40 [00:05<00:02,	5.48it/s]				
446/499	0.206G	0.02095	0.008344	0.01902	4	320:
68% #####7	27/40 [00:05<00:02,	5.27it/s]				
446/499	0.206G	0.0209	0.008226	0.01885	1	320:
68% #####7	27/40 [00:05<00:02,	5.27it/s]				
446/499	0.206G	0.0209	0.008226	0.01885	1	320:
70% #####	28/40 [00:05<00:02,	5.42it/s]				
446/499	0.206G	0.02121	0.008236	0.01905	2	320:
70% #####	28/40 [00:05<00:02,	5.42it/s]				
446/499	0.206G	0.02121	0.008236	0.01905	2	320:
72% #####2	29/40 [00:05<00:01,	5.52it/s]				
446/499	0.206G	0.02093	0.008158	0.01895	2	320:
72% #####2	29/40 [00:05<00:01,	5.52it/s]				

446/499	0.206G	0.02093	0.008158	0.01895	2	320:
75% #####5	30/40 [00:05<00:01,	5.46it/s]				
446/499	0.206G	0.02111	0.008454	0.01913	4	320:
75% #####5	30/40 [00:05<00:01,	5.46it/s]				
446/499	0.206G	0.02111	0.008454	0.01913	4	320:
78% #####7	31/40 [00:05<00:01,	5.42it/s]				
446/499	0.206G	0.02078	0.008277	0.01899	1	320:
78% #####7	31/40 [00:06<00:01,	5.42it/s]				
446/499	0.206G	0.02078	0.008277	0.01899	1	320:
80% #####	32/40 [00:06<00:01,	5.38it/s]				
446/499	0.206G	0.02045	0.008204	0.01887	1	320:
80% #####	32/40 [00:06<00:01,	5.38it/s]				
446/499	0.206G	0.02045	0.008204	0.01887	1	320:
82% #####2	33/40 [00:06<00:01,	5.65it/s]				
446/499	0.206G	0.0201	0.00807	0.01889	1	320:
82% #####2	33/40 [00:06<00:01,	5.65it/s]				
446/499	0.206G	0.0201	0.00807	0.01889	1	320:
85% #####5	34/40 [00:06<00:01,	5.70it/s]				
446/499	0.206G	0.02015	0.008317	0.01887	4	320:
85% #####5	34/40 [00:06<00:01,	5.70it/s]				
446/499	0.206G	0.02015	0.008317	0.01887	4	320:
88% #####7	35/40 [00:06<00:00,	5.72it/s]				
446/499	0.206G	0.02073	0.008343	0.0188	2	320:
88% #####7	35/40 [00:06<00:00,	5.72it/s]				
446/499	0.206G	0.02073	0.008343	0.0188	2	320:
90% #####	36/40 [00:06<00:00,	5.46it/s]				
446/499	0.206G	0.02041	0.008232	0.01876	1	320:
90% #####	36/40 [00:07<00:00,	5.46it/s]				
446/499	0.206G	0.02041	0.008232	0.01876	1	320:
92% #####2	37/40 [00:07<00:00,	5.57it/s]				
446/499	0.206G	0.02088	0.008308	0.01881	3	320:
92% #####2	37/40 [00:07<00:00,	5.57it/s]				
446/499	0.206G	0.02088	0.008308	0.01881	3	320:
95% #####5	38/40 [00:07<00:00,	5.57it/s]				
446/499	0.206G	0.02097	0.008445	0.01881	4	320:
95% #####5	38/40 [00:07<00:00,	5.57it/s]				
446/499	0.206G	0.02097	0.008445	0.01881	4	320:
98% #####7	39/40 [00:07<00:00,	5.64it/s]				
446/499	0.206G	0.02131	0.008475	0.01933	2	320:
98% #####7	39/40 [00:07<00:00,	5.64it/s]				
446/499	0.206G	0.02131	0.008475	0.01933	2	320:
100% #####	40/40 [00:07<00:00,	5.41it/s]				
446/499	0.206G	0.02131	0.008475	0.01933	2	320:
100% #####	40/40 [00:07<00:00,	5.28it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	10% #	2/20 [00:00<00:00, 18.64it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	20% ##	4/20 [00:00<00:01, 14.68it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 16.13it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 16.92it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 15.08it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 16.03it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	75% #####5	15/20 [00:00<00:00, 17.23it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	85% #####5	17/20 [00:01<00:00, 16.86it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5	19/20 [00:01<00:00, 16.90it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.80it/s]					
	all	40	40	0.961	0.963	0.991	
0.809							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
447/499	0.206G	0.02144	0.01817	0.02769	4	320:
0%	0/40 [00:00<?, ?it/s]					
447/499	0.206G	0.02144	0.01817	0.02769	4	320:
2% 2	1/40 [00:00<00:06, 5.82it/s]					
447/499	0.206G	0.01545	0.01099	0.02415	1	320:
2% 2	1/40 [00:00<00:06, 5.82it/s]					
447/499	0.206G	0.01545	0.01099	0.02415	1	320:
5% 5	2/40 [00:00<00:06, 6.15it/s]					
447/499	0.206G	0.0103	0.007493	0.0161	0	320:
5% 5	2/40 [00:00<00:06, 6.15it/s]					
447/499	0.206G	0.0103	0.007493	0.0161	0	320:
8% 7	3/40 [00:00<00:05, 6.55it/s]					
447/499	0.206G	0.01315	0.007406	0.01718	2	320:
8% 7	3/40 [00:00<00:05, 6.55it/s]					
447/499	0.206G	0.01315	0.007406	0.01718	2	320:
10% #	4/40 [00:00<00:05, 6.01it/s]					
447/499	0.206G	0.01557	0.00897	0.01827	4	320:
10% #	4/40 [00:00<00:05, 6.01it/s]					
447/499	0.206G	0.01557	0.00897	0.01827	4	320:
12% #2	5/40 [00:00<00:06, 5.72it/s]					
447/499	0.206G	0.0148	0.009445	0.01747	2	320:
12% #2	5/40 [00:01<00:06, 5.72it/s]					
447/499	0.206G	0.0148	0.009445	0.01747	2	320:

15% #5	6/40 [00:01<00:05,	5.75it/s]				
447/499	0.206G	0.01548	0.009754	0.01752	4	320:
15% #5	6/40 [00:01<00:05,	5.75it/s]				
447/499	0.206G	0.01548	0.009754	0.01752	4	320:
18% #7	7/40 [00:01<00:05,	5.59it/s]				
447/499	0.206G	0.01355	0.008761	0.01533	0	320:
18% #7	7/40 [00:01<00:05,	5.59it/s]				
447/499	0.206G	0.01355	0.008761	0.01533	0	320:
20% ##	8/40 [00:01<00:05,	6.00it/s]				
447/499	0.206G	0.01295	0.008148	0.01642	1	320:
20% ##	8/40 [00:01<00:05,	6.00it/s]				
447/499	0.206G	0.01295	0.008148	0.01642	1	320:
22% ##2	9/40 [00:01<00:05,	5.94it/s]				
447/499	0.206G	0.01308	0.007712	0.01609	1	320:
22% ##2	9/40 [00:01<00:05,	5.94it/s]				
447/499	0.206G	0.01308	0.007712	0.01609	1	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
447/499	0.206G	0.01277	0.007562	0.01597	2	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
447/499	0.206G	0.01277	0.007562	0.01597	2	320:
28% ##7	11/40 [00:01<00:05,	5.74it/s]				
447/499	0.206G	0.01264	0.00729	0.01624	1	320:
28% ##7	11/40 [00:02<00:05,	5.74it/s]				
447/499	0.206G	0.01264	0.00729	0.01624	1	320:
30% ###	12/40 [00:02<00:04,	5.76it/s]				
447/499	0.206G	0.01287	0.008066	0.01695	4	320:
30% ###	12/40 [00:02<00:04,	5.76it/s]				
447/499	0.206G	0.01287	0.008066	0.01695	4	320:
32% ###2	13/40 [00:02<00:04,	5.78it/s]				
447/499	0.206G	0.01531	0.007934	0.01697	2	320:
32% ###2	13/40 [00:02<00:04,	5.78it/s]				
447/499	0.206G	0.01531	0.007934	0.01697	2	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
447/499	0.206G	0.01596	0.008215	0.01735	3	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
447/499	0.206G	0.01596	0.008215	0.01735	3	320:
38% ###7	15/40 [00:02<00:04,	5.68it/s]				
447/499	0.206G	0.01704	0.008572	0.01826	4	320:
38% ###7	15/40 [00:02<00:04,	5.68it/s]				
447/499	0.206G	0.01704	0.008572	0.01826	4	320:
40% ####	16/40 [00:02<00:04,	5.56it/s]				
447/499	0.206G	0.01676	0.008455	0.01831	2	320:
40% ####	16/40 [00:02<00:04,	5.56it/s]				
447/499	0.206G	0.01676	0.008455	0.01831	2	320:
42% ####2	17/40 [00:02<00:04,	5.65it/s]				
447/499	0.206G	0.01622	0.008304	0.0182	1	320:
42% ####2	17/40 [00:03<00:04,	5.65it/s]				
447/499	0.206G	0.01622	0.008304	0.0182	1	320:

45% #####5	18/40 [00:03<00:03,	5.69it/s]				
447/499	0.206G	0.0162	0.008146	0.01802	1	320:
45% #####5	18/40 [00:03<00:03,	5.69it/s]				
447/499	0.206G	0.0162	0.008146	0.01802	1	320:
48% #####7	19/40 [00:03<00:03,	5.71it/s]				
447/499	0.206G	0.01604	0.008005	0.01807	1	320:
48% #####7	19/40 [00:03<00:03,	5.71it/s]				
447/499	0.206G	0.01604	0.008005	0.01807	1	320:
50% #####	20/40 [00:03<00:03,	5.74it/s]				
447/499	0.206G	0.0157	0.007932	0.01793	2	320:
50% #####	20/40 [00:03<00:03,	5.74it/s]				
447/499	0.206G	0.0157	0.007932	0.01793	2	320:
52% #####2	21/40 [00:03<00:03,	5.76it/s]				
447/499	0.206G	0.01587	0.008156	0.01845	4	320:
52% #####2	21/40 [00:03<00:03,	5.76it/s]				
447/499	0.206G	0.01587	0.008156	0.01845	4	320:
55% #####5	22/40 [00:03<00:03,	5.61it/s]				
447/499	0.206G	0.01621	0.008161	0.01883	2	320:
55% #####5	22/40 [00:03<00:03,	5.61it/s]				
447/499	0.206G	0.01621	0.008161	0.01883	2	320:
57% #####7	23/40 [00:03<00:02,	5.67it/s]				
447/499	0.206G	0.01643	0.008476	0.01914	4	320:
57% #####7	23/40 [00:04<00:02,	5.67it/s]				
447/499	0.206G	0.01643	0.008476	0.01914	4	320:
60% #####	24/40 [00:04<00:02,	5.42it/s]				
447/499	0.206G	0.01671	0.008796	0.01902	4	320:
60% #####	24/40 [00:04<00:02,	5.42it/s]				
447/499	0.206G	0.01671	0.008796	0.01902	4	320:
62% #####2	25/40 [00:04<00:02,	5.41it/s]				
447/499	0.206G	0.01645	0.008623	0.0189	1	320:
62% #####2	25/40 [00:04<00:02,	5.41it/s]				
447/499	0.206G	0.01645	0.008623	0.0189	1	320:
65% #####5	26/40 [00:04<00:02,	5.64it/s]				
447/499	0.206G	0.01702	0.008836	0.01888	4	320:
65% #####5	26/40 [00:04<00:02,	5.64it/s]				
447/499	0.206G	0.01702	0.008836	0.01888	4	320:
68% #####7	27/40 [00:04<00:02,	5.54it/s]				
447/499	0.206G	0.01709	0.008804	0.01871	2	320:
68% #####7	27/40 [00:04<00:02,	5.54it/s]				
447/499	0.206G	0.01709	0.008804	0.01871	2	320:
70% #####	28/40 [00:04<00:02,	5.32it/s]				
447/499	0.206G	0.01687	0.008731	0.0189	2	320:
70% #####	28/40 [00:05<00:02,	5.32it/s]				
447/499	0.206G	0.01687	0.008731	0.0189	2	320:
72% #####2	29/40 [00:05<00:02,	5.46it/s]				
447/499	0.206G	0.01697	0.008529	0.01861	1	320:
72% #####2	29/40 [00:05<00:02,	5.46it/s]				
447/499	0.206G	0.01697	0.008529	0.01861	1	320:

75% #####5		30/40	[00:05<00:01,	5.71it/s]			
447/499		0.206G	0.01717	0.008807	0.01862	4	320:
75% #####5		30/40	[00:05<00:01,	5.71it/s]			
447/499		0.206G	0.01717	0.008807	0.01862	4	320:
78% #####7		31/40	[00:05<00:01,	5.67it/s]			
447/499		0.206G	0.01825	0.008816	0.01856	2	320:
78% #####7		31/40	[00:05<00:01,	5.67it/s]			
447/499		0.206G	0.01825	0.008816	0.01856	2	320:
80% #####		32/40	[00:05<00:01,	5.35it/s]			
447/499		0.206G	0.01798	0.008653	0.01843	1	320:
80% #####		32/40	[00:05<00:01,	5.35it/s]			
447/499		0.206G	0.01798	0.008653	0.01843	1	320:
82% #####2		33/40	[00:05<00:01,	5.63it/s]			
447/499		0.206G	0.01766	0.008474	0.01841	1	320:
82% #####2		33/40	[00:05<00:01,	5.63it/s]			
447/499		0.206G	0.01766	0.008474	0.01841	1	320:
85% #####5		34/40	[00:05<00:01,	5.65it/s]			
447/499		0.206G	0.01764	0.008602	0.0184	4	320:
85% #####5		34/40	[00:06<00:01,	5.65it/s]			
447/499		0.206G	0.01764	0.008602	0.0184	4	320:
88% #####7		35/40	[00:06<00:00,	5.41it/s]			
447/499		0.206G	0.0174	0.008443	0.0182	1	320:
88% #####7		35/40	[00:06<00:00,	5.41it/s]			
447/499		0.206G	0.0174	0.008443	0.0182	1	320:
90% #####		36/40	[00:06<00:00,	5.39it/s]			
447/499		0.206G	0.0184	0.008473	0.01819	3	320:
90% #####		36/40	[00:06<00:00,	5.39it/s]			
447/499		0.206G	0.0184	0.008473	0.01819	3	320:
92% #####2		37/40	[00:06<00:00,	5.36it/s]			
447/499		0.206G	0.01814	0.008324	0.01807	1	320:
92% #####2		37/40	[00:06<00:00,	5.36it/s]			
447/499		0.206G	0.01814	0.008324	0.01807	1	320:
95% #####5		38/40	[00:06<00:00,	5.49it/s]			
447/499		0.206G	0.01875	0.008636	0.01829	4	320:
95% #####5		38/40	[00:06<00:00,	5.49it/s]			
447/499		0.206G	0.01875	0.008636	0.01829	4	320:
98% #####7		39/40	[00:06<00:00,	5.31it/s]			
447/499		0.206G	0.01855	0.008555	0.01822	2	320:
98% #####7		39/40	[00:07<00:00,	5.31it/s]			
447/499		0.206G	0.01855	0.008555	0.01822	2	320:
100% #####		40/40	[00:07<00:00,	5.30it/s]			
447/499		0.206G	0.01855	0.008555	0.01822	2	320:
100% #####		40/40	[00:07<00:00,	5.61it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:00, 18.20it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:01,	15.63it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	15.79it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	15.80it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	15.87it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	15.91it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	15.94it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	15.94it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	15.96it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	15.97it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	15.97it/s]		
	all	40	40	0.961	0.963	0.991
0.809						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
448/499	0.206G	0.009403	0.01078	0.01328	2	320:
0%	0/40	[00:00<?,	?it/s]			
448/499	0.206G	0.009403	0.01078	0.01328	2	320:
2% 2	1/40	[00:00<00:07,	4.92it/s]			
448/499	0.206G	0.01902	0.01299	0.01954	4	320:
2% 2	1/40	[00:00<00:07,	4.92it/s]			
448/499	0.206G	0.01902	0.01299	0.01954	4	320:
5% 5	2/40	[00:00<00:08,	4.69it/s]			
448/499	0.206G	0.01721	0.01097	0.01999	2	320:
5% 5	2/40	[00:00<00:08,	4.69it/s]			
448/499	0.206G	0.01721	0.01097	0.01999	2	320:
8% 7	3/40	[00:00<00:07,	4.79it/s]			
448/499	0.206G	0.01732	0.01002	0.01963	1	320:
8% 7	3/40	[00:00<00:07,	4.79it/s]			
448/499	0.206G	0.01732	0.01002	0.01963	1	320:
10% #	4/40	[00:00<00:08,	4.43it/s]			
448/499	0.206G	0.01615	0.009496	0.0184	2	320:
10% #	4/40	[00:01<00:08,	4.43it/s]			
448/499	0.206G	0.01615	0.009496	0.0184	2	320:
12% #2	5/40	[00:01<00:07,	4.71it/s]			
448/499	0.206G	0.01642	0.01056	0.01834	4	320:
12% #2	5/40	[00:01<00:07,	4.71it/s]			

448/499	0.206G	0.01642	0.01056	0.01834	4	320:
15% #5	6/40 [00:01<00:07,	4.66it/s]				
448/499	0.206G	0.01773	0.01086	0.01968	4	320:
15% #5	6/40 [00:01<00:07,	4.66it/s]				
448/499	0.206G	0.01773	0.01086	0.01968	4	320:
18% #7	7/40 [00:01<00:06,	4.85it/s]				
448/499	0.206G	0.01889	0.01138	0.02081	4	320:
18% #7	7/40 [00:01<00:06,	4.85it/s]				
448/499	0.206G	0.01889	0.01138	0.02081	4	320:
20% ##	8/40 [00:01<00:06,	5.00it/s]				
448/499	0.206G	0.01965	0.01146	0.02094	3	320:
20% ##	8/40 [00:01<00:06,	5.00it/s]				
448/499	0.206G	0.01965	0.01146	0.02094	3	320:
22% ##2	9/40 [00:01<00:05,	5.23it/s]				
448/499	0.206G	0.01892	0.01087	0.02105	1	320:
22% ##2	9/40 [00:02<00:05,	5.23it/s]				
448/499	0.206G	0.01892	0.01087	0.02105	1	320:
25% ##5	10/40 [00:02<00:05,	5.39it/s]				
448/499	0.206G	0.019	0.01063	0.0211	2	320:
25% ##5	10/40 [00:02<00:05,	5.39it/s]				
448/499	0.206G	0.019	0.01063	0.0211	2	320:
28% ##7	11/40 [00:02<00:05,	5.24it/s]				
448/499	0.206G	0.0194	0.01058	0.02107	4	320:
28% ##7	11/40 [00:02<00:05,	5.24it/s]				
448/499	0.206G	0.0194	0.01058	0.02107	4	320:
30% ###	12/40 [00:02<00:05,	5.40it/s]				
448/499	0.206G	0.01988	0.01092	0.02105	4	320:
30% ###	12/40 [00:02<00:05,	5.40it/s]				
448/499	0.206G	0.01988	0.01092	0.02105	4	320:
32% ###2	13/40 [00:02<00:05,	5.36it/s]				
448/499	0.206G	0.01916	0.01062	0.02048	2	320:
32% ###2	13/40 [00:02<00:05,	5.36it/s]				
448/499	0.206G	0.01916	0.01062	0.02048	2	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
448/499	0.206G	0.01909	0.01019	0.02022	1	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
448/499	0.206G	0.01909	0.01019	0.02022	1	320:
38% ###7	15/40 [00:02<00:04,	5.58it/s]				
448/499	0.206G	0.02123	0.01015	0.02161	2	320:
38% ###7	15/40 [00:03<00:04,	5.58it/s]				
448/499	0.206G	0.02123	0.01015	0.02161	2	320:
40% ####	16/40 [00:03<00:04,	5.35it/s]				
448/499	0.206G	0.02173	0.01067	0.02197	4	320:
40% ####	16/40 [00:03<00:04,	5.35it/s]				
448/499	0.206G	0.02173	0.01067	0.02197	4	320:
42% ####2	17/40 [00:03<00:04,	5.09it/s]				
448/499	0.206G	0.02101	0.01024	0.0215	1	320:
42% ####2	17/40 [00:03<00:04,	5.09it/s]				

448/499	0.206G	0.02101	0.01024	0.0215	1	320:
45% #####5	18/40 [00:03<00:04,	5.19it/s]				
448/499	0.206G	0.02205	0.01008	0.02143	2	320:
45% #####5	18/40 [00:03<00:04,	5.19it/s]				
448/499	0.206G	0.02205	0.01008	0.02143	2	320:
48% #####7	19/40 [00:03<00:03,	5.31it/s]				
448/499	0.206G	0.02147	0.009955	0.02105	1	320:
48% #####7	19/40 [00:03<00:03,	5.31it/s]				
448/499	0.206G	0.02147	0.009955	0.02105	1	320:
50% #####	20/40 [00:03<00:03,	5.32it/s]				
448/499	0.206G	0.02161	0.01034	0.02124	4	320:
50% #####	20/40 [00:04<00:03,	5.32it/s]				
448/499	0.206G	0.02161	0.01034	0.02124	4	320:
52% #####2	21/40 [00:04<00:03,	5.17it/s]				
448/499	0.206G	0.02163	0.01055	0.02122	4	320:
52% #####2	21/40 [00:04<00:03,	5.17it/s]				
448/499	0.206G	0.02163	0.01055	0.02122	4	320:
55% #####5	22/40 [00:04<00:03,	5.35it/s]				
448/499	0.206G	0.02248	0.01046	0.02138	2	320:
55% #####5	22/40 [00:04<00:03,	5.35it/s]				
448/499	0.206G	0.02248	0.01046	0.02138	2	320:
57% #####7	23/40 [00:04<00:03,	5.34it/s]				
448/499	0.206G	0.02183	0.01015	0.02097	1	320:
57% #####7	23/40 [00:04<00:03,	5.34it/s]				
448/499	0.206G	0.02183	0.01015	0.02097	1	320:
60% #####	24/40 [00:04<00:02,	5.48it/s]				
448/499	0.206G	0.0213	0.009908	0.02059	1	320:
60% #####	24/40 [00:04<00:02,	5.48it/s]				
448/499	0.206G	0.0213	0.009908	0.02059	1	320:
62% #####2	25/40 [00:04<00:02,	5.58it/s]				
448/499	0.206G	0.02071	0.009688	0.02034	1	320:
62% #####2	25/40 [00:05<00:02,	5.58it/s]				
448/499	0.206G	0.02071	0.009688	0.02034	1	320:
65% #####5	26/40 [00:05<00:02,	5.36it/s]				
448/499	0.206G	0.02034	0.009546	0.02012	2	320:
65% #####5	26/40 [00:05<00:02,	5.36it/s]				
448/499	0.206G	0.02034	0.009546	0.02012	2	320:
68% #####7	27/40 [00:05<00:02,	5.47it/s]				
448/499	0.206G	0.01994	0.00935	0.02008	1	320:
68% #####7	27/40 [00:05<00:02,	5.47it/s]				
448/499	0.206G	0.01994	0.00935	0.02008	1	320:
70% #####	28/40 [00:05<00:02,	5.57it/s]				
448/499	0.206G	0.01952	0.009261	0.0199	2	320:
70% #####	28/40 [00:05<00:02,	5.57it/s]				
448/499	0.206G	0.01952	0.009261	0.0199	2	320:
72% #####2	29/40 [00:05<00:02,	5.50it/s]				
448/499	0.206G	0.01922	0.009091	0.01973	1	320:
72% #####2	29/40 [00:05<00:02,	5.50it/s]				

448/499	0.206G	0.01922	0.009091	0.01973	1	320:
75% #####5	30/40 [00:05<00:01,	5.57it/s]				
448/499	0.206G	0.02033	0.008966	0.02058	2	320:
75% #####5	30/40 [00:05<00:01,	5.57it/s]				
448/499	0.206G	0.02033	0.008966	0.02058	2	320:
78% #####7	31/40 [00:05<00:01,	5.50it/s]				
448/499	0.206G	0.02027	0.009143	0.02062	4	320:
78% #####7	31/40 [00:06<00:01,	5.50it/s]				
448/499	0.206G	0.02027	0.009143	0.02062	4	320:
80% #####	32/40 [00:06<00:01,	5.44it/s]				
448/499	0.206G	0.01988	0.009053	0.02049	2	320:
80% #####	32/40 [00:06<00:01,	5.44it/s]				
448/499	0.206G	0.01988	0.009053	0.02049	2	320:
82% #####2	33/40 [00:06<00:01,	5.68it/s]				
448/499	0.206G	0.0203	0.009246	0.02052	4	320:
82% #####2	33/40 [00:06<00:01,	5.68it/s]				
448/499	0.206G	0.0203	0.009246	0.02052	4	320:
85% #####5	34/40 [00:06<00:01,	5.57it/s]				
448/499	0.206G	0.02094	0.009153	0.02039	2	320:
85% #####5	34/40 [00:06<00:01,	5.57it/s]				
448/499	0.206G	0.02094	0.009153	0.02039	2	320:
88% #####7	35/40 [00:06<00:00,	5.36it/s]				
448/499	0.206G	0.02136	0.009309	0.02048	3	320:
88% #####7	35/40 [00:06<00:00,	5.36it/s]				
448/499	0.206G	0.02136	0.009309	0.02048	3	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
448/499	0.206G	0.02126	0.009129	0.02024	1	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
448/499	0.206G	0.02126	0.009129	0.02024	1	320:
92% #####2	37/40 [00:06<00:00,	5.72it/s]				
448/499	0.206G	0.02131	0.009114	0.02031	3	320:
92% #####2	37/40 [00:07<00:00,	5.72it/s]				
448/499	0.206G	0.02131	0.009114	0.02031	3	320:
95% #####5	38/40 [00:07<00:00,	5.60it/s]				
448/499	0.206G	0.02179	0.009136	0.02023	2	320:
95% #####5	38/40 [00:07<00:00,	5.60it/s]				
448/499	0.206G	0.02179	0.009136	0.02023	2	320:
98% #####7	39/40 [00:07<00:00,	5.67it/s]				
448/499	0.206G	0.02159	0.009027	0.02006	1	320:
98% #####7	39/40 [00:07<00:00,	5.67it/s]				
448/499	0.206G	0.02159	0.009027	0.02006	1	320:
100% #####	40/40 [00:07<00:00,	5.71it/s]				
448/499	0.206G	0.02159	0.009027	0.02006	1	320:
100% #####	40/40 [00:07<00:00,	5.34it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	10% #	2/20 [00:00<00:01, 15.98it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	20% ##	4/20 [00:00<00:00, 16.17it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	35% ###5	7/20 [00:00<00:00, 17.43it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	45% ####5	9/20 [00:00<00:00, 17.72it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	55% #####5	11/20 [00:00<00:00, 17.90it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	65% #####5	13/20 [00:00<00:00, 17.91it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	75% #####5	15/20 [00:00<00:00, 18.09it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	85% #####5	17/20 [00:00<00:00, 18.13it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 18.53it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.95it/s]					
	all	40	40	0.961	0.952	0.991	
0.817							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
449/499	0.206G	0.009266	0.006802	0.01532	1	320:
0%	0/40 [00:00<?, ?it/s]					
449/499	0.206G	0.009266	0.006802	0.01532	1	320:
2% 2	1/40 [00:00<00:06, 6.42it/s]					
449/499	0.206G	0.02526	0.01048	0.01646	4	320:
2% 2	1/40 [00:00<00:06, 6.42it/s]					
449/499	0.206G	0.02526	0.01048	0.01646	4	320:
5% 5	2/40 [00:00<00:06, 6.01it/s]					
449/499	0.206G	0.02095	0.008191	0.01559	1	320:
5% 5	2/40 [00:00<00:06, 6.01it/s]					
449/499	0.206G	0.02095	0.008191	0.01559	1	320:
8% 7	3/40 [00:00<00:05, 6.18it/s]					
449/499	0.206G	0.01859	0.007143	0.01443	1	320:
8% 7	3/40 [00:00<00:05, 6.18it/s]					
449/499	0.206G	0.01859	0.007143	0.01443	1	320:
10% #	4/40 [00:00<00:06, 5.82it/s]					
449/499	0.206G	0.01764	0.007443	0.01471	2	320:
10% #	4/40 [00:00<00:06, 5.82it/s]					
449/499	0.206G	0.01764	0.007443	0.01471	2	320:
12% #2	5/40 [00:00<00:06, 5.82it/s]					
449/499	0.206G	0.01846	0.00817	0.01597	4	320:
12% #2	5/40 [00:01<00:06, 5.82it/s]					
449/499	0.206G	0.01846	0.00817	0.01597	4	320:

15% #5	6/40 [00:01<00:05,	5.82it/s]				
449/499	0.206G	0.01583	0.007115	0.01369	0	320:
15% #5	6/40 [00:01<00:05,	5.82it/s]				
449/499	0.206G	0.01583	0.007115	0.01369	0	320:
18% #7	7/40 [00:01<00:05,	5.99it/s]				
449/499	0.206G	0.01539	0.007218	0.01374	1	320:
18% #7	7/40 [00:01<00:05,	5.99it/s]				
449/499	0.206G	0.01539	0.007218	0.01374	1	320:
20% ##	8/40 [00:01<00:05,	5.91it/s]				
449/499	0.206G	0.01506	0.007369	0.0147	2	320:
20% ##	8/40 [00:01<00:05,	5.91it/s]				
449/499	0.206G	0.01506	0.007369	0.0147	2	320:
22% ##2	9/40 [00:01<00:05,	6.05it/s]				
449/499	0.206G	0.01439	0.006879	0.01459	1	320:
22% ##2	9/40 [00:01<00:05,	6.05it/s]				
449/499	0.206G	0.01439	0.006879	0.01459	1	320:
25% ##5	10/40 [00:01<00:05,	5.98it/s]				
449/499	0.206G	0.0175	0.006904	0.01478	2	320:
25% ##5	10/40 [00:01<00:05,	5.98it/s]				
449/499	0.206G	0.0175	0.006904	0.01478	2	320:
28% ##7	11/40 [00:01<00:04,	5.91it/s]				
449/499	0.206G	0.0195	0.007776	0.01495	3	320:
28% ##7	11/40 [00:02<00:04,	5.91it/s]				
449/499	0.206G	0.0195	0.007776	0.01495	3	320:
30% ###	12/40 [00:02<00:04,	5.72it/s]				
449/499	0.206G	0.02082	0.007609	0.0162	2	320:
30% ###	12/40 [00:02<00:04,	5.72it/s]				
449/499	0.206G	0.02082	0.007609	0.0162	2	320:
32% ###2	13/40 [00:02<00:04,	5.75it/s]				
449/499	0.206G	0.02029	0.007318	0.01612	1	320:
32% ###2	13/40 [00:02<00:04,	5.75it/s]				
449/499	0.206G	0.02029	0.007318	0.01612	1	320:
35% ###5	14/40 [00:02<00:04,	5.75it/s]				
449/499	0.206G	0.0214	0.007367	0.01609	3	320:
35% ###5	14/40 [00:02<00:04,	5.75it/s]				
449/499	0.206G	0.0214	0.007367	0.01609	3	320:
38% ###7	15/40 [00:02<00:04,	5.61it/s]				
449/499	0.206G	0.02057	0.007116	0.01614	1	320:
38% ###7	15/40 [00:02<00:04,	5.61it/s]				
449/499	0.206G	0.02057	0.007116	0.01614	1	320:
40% ####	16/40 [00:02<00:04,	5.83it/s]				
449/499	0.206G	0.02008	0.006887	0.01607	1	320:
40% ####	16/40 [00:02<00:04,	5.83it/s]				
449/499	0.206G	0.02008	0.006887	0.01607	1	320:
42% ####2	17/40 [00:02<00:03,	5.81it/s]				
449/499	0.206G	0.01935	0.006652	0.01597	1	320:
42% ####2	17/40 [00:03<00:03,	5.81it/s]				
449/499	0.206G	0.01935	0.006652	0.01597	1	320:

45% #####5	18/40 [00:03<00:03, 5.81it/s]					
449/499	0.206G 0.02024 0.007133 0.01647	4	320:			
45% #####5	18/40 [00:03<00:03, 5.81it/s]					
449/499	0.206G 0.02024 0.007133 0.01647	4	320:			
48% #####7	19/40 [00:03<00:03, 5.51it/s]					
449/499	0.206G 0.02162 0.007307 0.01654	3	320:			
48% #####7	19/40 [00:03<00:03, 5.51it/s]					
449/499	0.206G 0.02162 0.007307 0.01654	3	320:			
50% #####	20/40 [00:03<00:03, 5.45it/s]					
449/499	0.206G 0.02117 0.00712 0.01643	1	320:			
50% #####	20/40 [00:03<00:03, 5.45it/s]					
449/499	0.206G 0.02117 0.00712 0.01643	1	320:			
52% #####2	21/40 [00:03<00:03, 5.71it/s]					
449/499	0.206G 0.021 0.007538 0.01646	4	320:			
52% #####2	21/40 [00:03<00:03, 5.71it/s]					
449/499	0.206G 0.021 0.007538 0.01646	4	320:			
55% #####5	22/40 [00:03<00:03, 5.45it/s]					
449/499	0.206G 0.02072 0.007434 0.0165	2	320:			
55% #####5	22/40 [00:04<00:03, 5.45it/s]					
449/499	0.206G 0.02072 0.007434 0.0165	2	320:			
57% #####7	23/40 [00:04<00:03, 5.26it/s]					
449/499	0.206G 0.021 0.007425 0.01655	2	320:			
57% #####7	23/40 [00:04<00:03, 5.26it/s]					
449/499	0.206G 0.021 0.007425 0.01655	2	320:			
60% #####	24/40 [00:04<00:03, 5.15it/s]					
449/499	0.206G 0.02075 0.00768 0.01669	4	320:			
60% #####	24/40 [00:04<00:03, 5.15it/s]					
449/499	0.206G 0.02075 0.00768 0.01669	4	320:			
62% #####2	25/40 [00:04<00:02, 5.17it/s]					
449/499	0.206G 0.02113 0.007822 0.01686	2	320:			
62% #####2	25/40 [00:04<00:02, 5.17it/s]					
449/499	0.206G 0.02113 0.007822 0.01686	2	320:			
65% #####5	26/40 [00:04<00:02, 5.24it/s]					
449/499	0.206G 0.02112 0.008015 0.01687	4	320:			
65% #####5	26/40 [00:04<00:02, 5.24it/s]					
449/499	0.206G 0.02112 0.008015 0.01687	4	320:			
68% #####7	27/40 [00:04<00:02, 5.27it/s]					
449/499	0.206G 0.02085 0.008068 0.01675	2	320:			
68% #####7	27/40 [00:05<00:02, 5.27it/s]					
449/499	0.206G 0.02085 0.008068 0.01675	2	320:			
70% #####	28/40 [00:05<00:02, 5.14it/s]					
449/499	0.206G 0.02097 0.008202 0.0168	4	320:			
70% #####	28/40 [00:05<00:02, 5.14it/s]					
449/499	0.206G 0.02097 0.008202 0.0168	4	320:			
72% #####2	29/40 [00:05<00:02, 5.20it/s]					
449/499	0.206G 0.02056 0.00802 0.01668	1	320:			
72% #####2	29/40 [00:05<00:02, 5.20it/s]					
449/499	0.206G 0.02056 0.00802 0.01668	1	320:			

75%	#####5		30/40	[00:05<00:01,	5.51it/s]				
	449/499		0.206G	0.02103	0.008184	0.01681	4	320:	
75%	#####5		30/40	[00:05<00:01,	5.51it/s]				
	449/499		0.206G	0.02103	0.008184	0.01681	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.43it/s]				
	449/499		0.206G	0.02103	0.008461	0.01709	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.43it/s]				
	449/499		0.206G	0.02103	0.008461	0.01709	4	320:	
80%	#####		32/40	[00:05<00:01,	5.14it/s]				
	449/499		0.206G	0.02071	0.008322	0.01696	1	320:	
80%	#####		32/40	[00:05<00:01,	5.14it/s]				
	449/499		0.206G	0.02071	0.008322	0.01696	1	320:	
82%	#####2		33/40	[00:05<00:01,	5.20it/s]				
	449/499		0.206G	0.02077	0.008545	0.01709	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.20it/s]				
	449/499		0.206G	0.02077	0.008545	0.01709	4	320:	
85%	#####5		34/40	[00:06<00:01,	4.99it/s]				
	449/499		0.206G	0.02123	0.008529	0.0171	2	320:	
85%	#####5		34/40	[00:06<00:01,	4.99it/s]				
	449/499		0.206G	0.02123	0.008529	0.0171	2	320:	
88%	#####7		35/40	[00:06<00:01,	4.86it/s]				
	449/499		0.206G	0.02109	0.008418	0.01706	1	320:	
88%	#####7		35/40	[00:06<00:01,	4.86it/s]				
	449/499		0.206G	0.02109	0.008418	0.01706	1	320:	
90%	#####		36/40	[00:06<00:00,	4.99it/s]				
	449/499		0.206G	0.02094	0.008581	0.01736	4	320:	
90%	#####		36/40	[00:06<00:00,	4.99it/s]				
	449/499		0.206G	0.02094	0.008581	0.01736	4	320:	
92%	#####2		37/40	[00:06<00:00,	4.95it/s]				
	449/499		0.206G	0.02101	0.008519	0.01773	2	320:	
92%	#####2		37/40	[00:06<00:00,	4.95it/s]				
	449/499		0.206G	0.02101	0.008519	0.01773	2	320:	
95%	#####5		38/40	[00:06<00:00,	4.94it/s]				
	449/499		0.206G	0.02068	0.00845	0.01764	2	320:	
95%	#####5		38/40	[00:07<00:00,	4.94it/s]				
	449/499		0.206G	0.02068	0.00845	0.01764	2	320:	
98%	#####7		39/40	[00:07<00:00,	4.92it/s]				
	449/499		0.206G	0.02083	0.008695	0.0177	4	320:	
98%	#####7		39/40	[00:07<00:00,	4.92it/s]				
	449/499		0.206G	0.02083	0.008695	0.0177	4	320:	
100%	#####		40/40	[00:07<00:00,	4.70it/s]				
	449/499		0.206G	0.02083	0.008695	0.0177	4	320:	
100%	#####		40/40	[00:07<00:00,	5.39it/s]				

		Class	Images	Instances	P	R	mAP50
mAP50-95:	0%			0/20	[00:00<?, ?it/s]		
		Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #			2/20	[00:00<00:01, 14.22it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:01, 15.08it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:01, 13.95it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00, 14.68it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00, 15.13it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00, 15.38it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00, 14.98it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00, 15.89it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00, 14.72it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00, 15.20it/s]			
	all	40	40	0.964	0.969	0.992

0.811

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
450/499	0.206G	0.02121	0.01326	0.01868	4	320:
0%	0/40	[00:00<?, ?it/s]				
450/499	0.206G	0.02121	0.01326	0.01868	4	320:
2% 2	1/40	[00:00<00:06, 5.74it/s]				
450/499	0.206G	0.01581	0.008618	0.0168	1	320:
2% 2	1/40	[00:00<00:06, 5.74it/s]				
450/499	0.206G	0.01581	0.008618	0.0168	1	320:
5% 5	2/40	[00:00<00:06, 5.78it/s]				
450/499	0.206G	0.01648	0.0116	0.01842	4	320:
5% 5	2/40	[00:00<00:06, 5.78it/s]				
450/499	0.206G	0.01648	0.0116	0.01842	4	320:
8% 7	3/40	[00:00<00:06, 5.79it/s]				
450/499	0.206G	0.01398	0.01015	0.01669	1	320:
8% 7	3/40	[00:00<00:06, 5.79it/s]				
450/499	0.206G	0.01398	0.01015	0.01669	1	320:
10% #	4/40	[00:00<00:06, 5.84it/s]				
450/499	0.206G	0.01367	0.009646	0.01669	2	320:
10% #	4/40	[00:00<00:06, 5.84it/s]				
450/499	0.206G	0.01367	0.009646	0.01669	2	320:
12% #2	5/40	[00:00<00:05, 5.97it/s]				
450/499	0.206G	0.01463	0.009762	0.0165	2	320:
12% #2	5/40	[00:01<00:05, 5.97it/s]				
450/499	0.206G	0.01463	0.009762	0.0165	2	320:
15% #5	6/40	[00:01<00:05, 5.91it/s]				

450/499	0.206G	0.0141	0.009211	0.01612	1	320:
15% #5	6/40 [00:01<00:05,	5.91it/s]				
450/499	0.206G	0.0141	0.009211	0.01612	1	320:
18% #7	7/40 [00:01<00:05,	5.66it/s]				
450/499	0.206G	0.01477	0.008514	0.01604	1	320:
18% #7	7/40 [00:01<00:05,	5.66it/s]				
450/499	0.206G	0.01477	0.008514	0.01604	1	320:
20% ##	8/40 [00:01<00:05,	5.74it/s]				
450/499	0.206G	0.01554	0.008959	0.01637	4	320:
20% ##	8/40 [00:01<00:05,	5.74it/s]				
450/499	0.206G	0.01554	0.008959	0.01637	4	320:
22% ##2	9/40 [00:01<00:05,	5.76it/s]				
450/499	0.206G	0.01458	0.008414	0.01625	1	320:
22% ##2	9/40 [00:01<00:05,	5.76it/s]				
450/499	0.206G	0.01458	0.008414	0.01625	1	320:
25% ##5	10/40 [00:01<00:05,	5.65it/s]				
450/499	0.206G	0.01426	0.008325	0.01707	2	320:
25% ##5	10/40 [00:01<00:05,	5.65it/s]				
450/499	0.206G	0.01426	0.008325	0.01707	2	320:
28% ##7	11/40 [00:01<00:04,	5.80it/s]				
450/499	0.206G	0.01588	0.008396	0.01778	2	320:
28% ##7	11/40 [00:02<00:04,	5.80it/s]				
450/499	0.206G	0.01588	0.008396	0.01778	2	320:
30% ###	12/40 [00:02<00:04,	5.65it/s]				
450/499	0.206G	0.01585	0.008182	0.01765	2	320:
30% ###	12/40 [00:02<00:04,	5.65it/s]				
450/499	0.206G	0.01585	0.008182	0.01765	2	320:
32% ###2	13/40 [00:02<00:04,	5.72it/s]				
450/499	0.206G	0.01869	0.008021	0.01791	2	320:
32% ###2	13/40 [00:02<00:04,	5.72it/s]				
450/499	0.206G	0.01869	0.008021	0.01791	2	320:
35% ###5	14/40 [00:02<00:04,	5.72it/s]				
450/499	0.206G	0.01958	0.009003	0.01844	4	320:
35% ###5	14/40 [00:02<00:04,	5.72it/s]				
450/499	0.206G	0.01958	0.009003	0.01844	4	320:
38% ###7	15/40 [00:02<00:04,	5.60it/s]				
450/499	0.206G	0.02013	0.008898	0.01855	2	320:
38% ###7	15/40 [00:02<00:04,	5.60it/s]				
450/499	0.206G	0.02013	0.008898	0.01855	2	320:
40% ####	16/40 [00:02<00:04,	5.54it/s]				
450/499	0.206G	0.02041	0.008855	0.0186	2	320:
40% ####	16/40 [00:03<00:04,	5.54it/s]				
450/499	0.206G	0.02041	0.008855	0.0186	2	320:
42% ####2	17/40 [00:03<00:04,	5.40it/s]				
450/499	0.206G	0.02134	0.00871	0.01881	2	320:
42% ####2	17/40 [00:03<00:04,	5.40it/s]				
450/499	0.206G	0.02134	0.00871	0.01881	2	320:
45% ####5	18/40 [00:03<00:03,	5.56it/s]				

450/499	0.206G	0.0213	0.008666	0.01861	2	320:
45% #####5	18/40 [00:03<00:03,	5.56it/s]				
450/499	0.206G	0.0213	0.008666	0.01861	2	320:
48% #####7	19/40 [00:03<00:03,	5.47it/s]				
450/499	0.206G	0.0207	0.008565	0.01847	2	320:
48% #####7	19/40 [00:03<00:03,	5.47it/s]				
450/499	0.206G	0.0207	0.008565	0.01847	2	320:
50% #####	20/40 [00:03<00:03,	5.72it/s]				
450/499	0.206G	0.02195	0.00885	0.01863	4	320:
50% #####	20/40 [00:03<00:03,	5.72it/s]				
450/499	0.206G	0.02195	0.00885	0.01863	4	320:
52% #####2	21/40 [00:03<00:03,	5.60it/s]				
450/499	0.206G	0.02161	0.008674	0.01837	2	320:
52% #####2	21/40 [00:03<00:03,	5.60it/s]				
450/499	0.206G	0.02161	0.008674	0.01837	2	320:
55% #####5	22/40 [00:03<00:03,	5.50it/s]				
450/499	0.206G	0.02192	0.008752	0.01875	1	320:
55% #####5	22/40 [00:04<00:03,	5.50it/s]				
450/499	0.206G	0.02192	0.008752	0.01875	1	320:
57% #####7	23/40 [00:04<00:03,	5.31it/s]				
450/499	0.206G	0.02168	0.008943	0.01879	4	320:
57% #####7	23/40 [00:04<00:03,	5.31it/s]				
450/499	0.206G	0.02168	0.008943	0.01879	4	320:
60% #####	24/40 [00:04<00:02,	5.45it/s]				
450/499	0.206G	0.02233	0.008916	0.01906	3	320:
60% #####	24/40 [00:04<00:02,	5.45it/s]				
450/499	0.206G	0.02233	0.008916	0.01906	3	320:
62% #####2	25/40 [00:04<00:02,	5.39it/s]				
450/499	0.206G	0.02185	0.008684	0.01879	1	320:
62% #####2	25/40 [00:04<00:02,	5.39it/s]				
450/499	0.206G	0.02185	0.008684	0.01879	1	320:
65% #####5	26/40 [00:04<00:02,	5.51it/s]				
450/499	0.206G	0.02185	0.008991	0.01898	4	320:
65% #####5	26/40 [00:04<00:02,	5.51it/s]				
450/499	0.206G	0.02185	0.008991	0.01898	4	320:
68% #####7	27/40 [00:04<00:02,	5.46it/s]				
450/499	0.206G	0.02163	0.008943	0.01889	1	320:
68% #####7	27/40 [00:04<00:02,	5.46it/s]				
450/499	0.206G	0.02163	0.008943	0.01889	1	320:
70% #####	28/40 [00:04<00:02,	5.57it/s]				
450/499	0.206G	0.02172	0.00919	0.0188	4	320:
70% #####	28/40 [00:05<00:02,	5.57it/s]				
450/499	0.206G	0.02172	0.00919	0.0188	4	320:
72% #####2	29/40 [00:05<00:02,	5.36it/s]				
450/499	0.206G	0.02134	0.008982	0.01875	1	320:
72% #####2	29/40 [00:05<00:02,	5.36it/s]				
450/499	0.206G	0.02134	0.008982	0.01875	1	320:
75% #####5	30/40 [00:05<00:01,	5.63it/s]				

450/499	0.206G	0.02126	0.009158	0.01872	4	320:
75% #####5	30/40 [00:05<00:01,	5.63it/s]				
450/499	0.206G	0.02126	0.009158	0.01872	4	320:
78% #####7	31/40 [00:05<00:01,	5.51it/s]				
450/499	0.206G	0.02115	0.009321	0.01885	4	320:
78% #####7	31/40 [00:05<00:01,	5.51it/s]				
450/499	0.206G	0.02115	0.009321	0.01885	4	320:
80% #####	32/40 [00:05<00:01,	5.60it/s]				
450/499	0.206G	0.02173	0.009355	0.01948	3	320:
80% #####	32/40 [00:05<00:01,	5.60it/s]				
450/499	0.206G	0.02173	0.009355	0.01948	3	320:
82% #####2	33/40 [00:05<00:01,	5.67it/s]				
450/499	0.206G	0.02169	0.00951	0.01936	4	320:
82% #####2	33/40 [00:06<00:01,	5.67it/s]				
450/499	0.206G	0.02169	0.00951	0.01936	4	320:
85% #####5	34/40 [00:06<00:01,	5.54it/s]				
450/499	0.206G	0.02181	0.009682	0.01941	4	320:
85% #####5	34/40 [00:06<00:01,	5.54it/s]				
450/499	0.206G	0.02181	0.009682	0.01941	4	320:
88% #####7	35/40 [00:06<00:00,	5.62it/s]				
450/499	0.206G	0.02144	0.009536	0.01927	1	320:
88% #####7	35/40 [00:06<00:00,	5.62it/s]				
450/499	0.206G	0.02144	0.009536	0.01927	1	320:
90% #####	36/40 [00:06<00:00,	5.67it/s]				
450/499	0.206G	0.02118	0.009382	0.01912	1	320:
90% #####	36/40 [00:06<00:00,	5.67it/s]				
450/499	0.206G	0.02118	0.009382	0.01912	1	320:
92% #####2	37/40 [00:06<00:00,	5.70it/s]				
450/499	0.206G	0.02138	0.009444	0.01923	4	320:
92% #####2	37/40 [00:06<00:00,	5.70it/s]				
450/499	0.206G	0.02138	0.009444	0.01923	4	320:
95% #####5	38/40 [00:06<00:00,	5.59it/s]				
450/499	0.206G	0.02101	0.009277	0.0191	1	320:
95% #####5	38/40 [00:06<00:00,	5.59it/s]				
450/499	0.206G	0.02101	0.009277	0.0191	1	320:
98% #####7	39/40 [00:06<00:00,	5.66it/s]				
450/499	0.206G	0.0216	0.009225	0.01925	2	320:
98% #####7	39/40 [00:07<00:00,	5.66it/s]				
450/499	0.206G	0.0216	0.009225	0.01925	2	320:
100% #####	40/40 [00:07<00:00,	5.53it/s]				
450/499	0.206G	0.0216	0.009225	0.01925	2	320:
100% #####	40/40 [00:07<00:00,	5.60it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:00, 18.29it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 18.28it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 17.15it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 17.57it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.81it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.97it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 18.07it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 16.61it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5	19/20 [00:01<00:00, 17.44it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.71it/s]					
	all	40	40	0.964	0.969	0.992	
0.811							

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
451/499	0.206G	0.01327	0.008446	0.01571	2	320:	
0%		0/40 [00:00<?, ?it/s]					
451/499	0.206G	0.01327	0.008446	0.01571	2	320:	
2% 2		1/40 [00:00<00:06, 5.79it/s]					
451/499	0.206G	0.0182	0.006836	0.02442	2	320:	
2% 2		1/40 [00:00<00:06, 5.79it/s]					
451/499	0.206G	0.0182	0.006836	0.02442	2	320:	
5% 5		2/40 [00:00<00:06, 5.51it/s]					
451/499	0.206G	0.01965	0.00935	0.02706	3	320:	
5% 5		2/40 [00:00<00:06, 5.51it/s]					
451/499	0.206G	0.01965	0.00935	0.02706	3	320:	
8% 7		3/40 [00:00<00:06, 5.59it/s]					
451/499	0.206G	0.0205	0.00828	0.02378	1	320:	
8% 7		3/40 [00:00<00:06, 5.59it/s]					
451/499	0.206G	0.0205	0.00828	0.02378	1	320:	
10% #		4/40 [00:00<00:06, 5.71it/s]					
451/499	0.206G	0.01845	0.00728	0.02295	1	320:	
10% #		4/40 [00:00<00:06, 5.71it/s]					
451/499	0.206G	0.01845	0.00728	0.02295	1	320:	
12% #2		5/40 [00:00<00:05, 5.94it/s]					
451/499	0.206G	0.02046	0.008066	0.02353	4	320:	
12% #2		5/40 [00:01<00:05, 5.94it/s]					
451/499	0.206G	0.02046	0.008066	0.02353	4	320:	
15% #5		6/40 [00:01<00:05, 5.70it/s]					
451/499	0.206G	0.02115	0.008582	0.02354	4	320:	

15% #5	6/40 [00:01<00:05,	5.70it/s]				
451/499	0.206G	0.02115	0.008582	0.02354	4	320:
18% #7	7/40 [00:01<00:05,	5.74it/s]				
451/499	0.206G	0.02592	0.008122	0.02407	2	320:
18% #7	7/40 [00:01<00:05,	5.74it/s]				
451/499	0.206G	0.02592	0.008122	0.02407	2	320:
20% ##	8/40 [00:01<00:05,	5.61it/s]				
451/499	0.206G	0.02522	0.008908	0.02343	4	320:
20% ##	8/40 [00:01<00:05,	5.61it/s]				
451/499	0.206G	0.02522	0.008908	0.02343	4	320:
22% ##2	9/40 [00:01<00:05,	5.56it/s]				
451/499	0.206G	0.02388	0.008302	0.02223	1	320:
22% ##2	9/40 [00:01<00:05,	5.56it/s]				
451/499	0.206G	0.02388	0.008302	0.02223	1	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
451/499	0.206G	0.02255	0.008074	0.02146	1	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
451/499	0.206G	0.02255	0.008074	0.02146	1	320:
28% ##7	11/40 [00:01<00:05,	5.66it/s]				
451/499	0.206G	0.0221	0.00778	0.02087	1	320:
28% ##7	11/40 [00:02<00:05,	5.66it/s]				
451/499	0.206G	0.0221	0.00778	0.02087	1	320:
30% ###	12/40 [00:02<00:05,	5.40it/s]				
451/499	0.206G	0.02253	0.007858	0.02065	2	320:
30% ###	12/40 [00:02<00:05,	5.40it/s]				
451/499	0.206G	0.02253	0.007858	0.02065	2	320:
32% ###2	13/40 [00:02<00:04,	5.51it/s]				
451/499	0.206G	0.02346	0.007831	0.02034	2	320:
32% ###2	13/40 [00:02<00:04,	5.51it/s]				
451/499	0.206G	0.02346	0.007831	0.02034	2	320:
35% ###5	14/40 [00:02<00:04,	5.45it/s]				
451/499	0.206G	0.02269	0.007714	0.01984	2	320:
35% ###5	14/40 [00:02<00:04,	5.45it/s]				
451/499	0.206G	0.02269	0.007714	0.01984	2	320:
38% ###7	15/40 [00:02<00:04,	5.54it/s]				
451/499	0.206G	0.02202	0.007648	0.01989	2	320:
38% ###7	15/40 [00:02<00:04,	5.54it/s]				
451/499	0.206G	0.02202	0.007648	0.01989	2	320:
40% ####	16/40 [00:02<00:04,	5.62it/s]				
451/499	0.206G	0.0218	0.007452	0.01958	1	320:
40% ####	16/40 [00:03<00:04,	5.62it/s]				
451/499	0.206G	0.0218	0.007452	0.01958	1	320:
42% ####2	17/40 [00:03<00:04,	5.53it/s]				
451/499	0.206G	0.02233	0.00773	0.02008	4	320:
42% ####2	17/40 [00:03<00:04,	5.53it/s]				
451/499	0.206G	0.02233	0.00773	0.02008	4	320:
45% ####5	18/40 [00:03<00:03,	5.58it/s]				
451/499	0.206G	0.02169	0.007526	0.01968	1	320:

45% #####5	18/40 [00:03<00:03,	5.58it/s]				
451/499	0.206G	0.02169	0.007526	0.01968	1	320:
48% #####7	19/40 [00:03<00:03,	5.65it/s]				
451/499	0.206G	0.02106	0.00745	0.01938	2	320:
48% #####7	19/40 [00:03<00:03,	5.65it/s]				
451/499	0.206G	0.02106	0.00745	0.01938	2	320:
50% #####	20/40 [00:03<00:03,	5.70it/s]				
451/499	0.206G	0.02093	0.00766	0.01939	4	320:
50% #####	20/40 [00:03<00:03,	5.70it/s]				
451/499	0.206G	0.02093	0.00766	0.01939	4	320:
52% #####2	21/40 [00:03<00:03,	5.58it/s]				
451/499	0.206G	0.02059	0.007704	0.01923	2	320:
52% #####2	21/40 [00:03<00:03,	5.58it/s]				
451/499	0.206G	0.02059	0.007704	0.01923	2	320:
55% #####5	22/40 [00:03<00:03,	5.46it/s]				
451/499	0.206G	0.02211	0.00777	0.01921	2	320:
55% #####5	22/40 [00:04<00:03,	5.46it/s]				
451/499	0.206G	0.02211	0.00777	0.01921	2	320:
57% #####7	23/40 [00:04<00:03,	5.32it/s]				
451/499	0.206G	0.02194	0.008266	0.0191	4	320:
57% #####7	23/40 [00:04<00:03,	5.32it/s]				
451/499	0.206G	0.02194	0.008266	0.0191	4	320:
60% #####	24/40 [00:04<00:03,	5.08it/s]				
451/499	0.206G	0.02246	0.008237	0.0194	2	320:
60% #####	24/40 [00:04<00:03,	5.08it/s]				
451/499	0.206G	0.02246	0.008237	0.0194	2	320:
62% #####2	25/40 [00:04<00:02,	5.03it/s]				
451/499	0.206G	0.02313	0.008179	0.01931	2	320:
62% #####2	25/40 [00:04<00:02,	5.03it/s]				
451/499	0.206G	0.02313	0.008179	0.01931	2	320:
65% #####5	26/40 [00:04<00:02,	4.84it/s]				
451/499	0.206G	0.02317	0.008373	0.01935	4	320:
65% #####5	26/40 [00:04<00:02,	4.84it/s]				
451/499	0.206G	0.02317	0.008373	0.01935	4	320:
68% #####7	27/40 [00:04<00:02,	4.89it/s]				
451/499	0.206G	0.02361	0.008325	0.01916	2	320:
68% #####7	27/40 [00:05<00:02,	4.89it/s]				
451/499	0.206G	0.02361	0.008325	0.01916	2	320:
70% #####	28/40 [00:05<00:02,	4.90it/s]				
451/499	0.206G	0.02347	0.00856	0.01913	4	320:
70% #####	28/40 [00:05<00:02,	4.90it/s]				
451/499	0.206G	0.02347	0.00856	0.01913	4	320:
72% #####2	29/40 [00:05<00:02,	4.77it/s]				
451/499	0.206G	0.02364	0.008734	0.01911	4	320:
72% #####2	29/40 [00:05<00:02,	4.77it/s]				
451/499	0.206G	0.02364	0.008734	0.01911	4	320:
75% #####5	30/40 [00:05<00:02,	4.71it/s]				
451/499	0.206G	0.02391	0.008944	0.01952	4	320:

75%	#####5		30/40	[00:05<00:02,	4.71it/s]				
	451/499		0.206G	0.02391	0.008944	0.01952	4	320:	
78%	#####7		31/40	[00:05<00:01,	4.72it/s]				
	451/499		0.206G	0.02316	0.008872	0.01891	0	320:	
78%	#####7		31/40	[00:05<00:01,	4.72it/s]				
	451/499		0.206G	0.02316	0.008872	0.01891	0	320:	
80%	#####		32/40	[00:05<00:01,	5.18it/s]				
	451/499		0.206G	0.02285	0.008876	0.01879	2	320:	
80%	#####		32/40	[00:06<00:01,	5.18it/s]				
	451/499		0.206G	0.02285	0.008876	0.01879	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.22it/s]				
	451/499		0.206G	0.02252	0.008892	0.01865	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.22it/s]				
	451/499		0.206G	0.02252	0.008892	0.01865	1	320:	
85%	#####5		34/40	[00:06<00:01,	4.99it/s]				
	451/499		0.206G	0.0221	0.008729	0.01842	1	320:	
85%	#####5		34/40	[00:06<00:01,	4.99it/s]				
	451/499		0.206G	0.0221	0.008729	0.01842	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.08it/s]				
	451/499		0.206G	0.02184	0.008578	0.01828	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.08it/s]				
	451/499		0.206G	0.02184	0.008578	0.01828	1	320:	
90%	#####		36/40	[00:06<00:00,	5.15it/s]				
	451/499		0.206G	0.02222	0.008537	0.01822	2	320:	
90%	#####		36/40	[00:06<00:00,	5.15it/s]				
	451/499		0.206G	0.02222	0.008537	0.01822	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.22it/s]				
	451/499		0.206G	0.02216	0.008661	0.01831	4	320:	
92%	#####2		37/40	[00:07<00:00,	5.22it/s]				
	451/499		0.206G	0.02216	0.008661	0.01831	4	320:	
95%	#####5		38/40	[00:07<00:00,	5.38it/s]				
	451/499		0.206G	0.02232	0.009076	0.01859	4	320:	
95%	#####5		38/40	[00:07<00:00,	5.38it/s]				
	451/499		0.206G	0.02232	0.009076	0.01859	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.51it/s]				
	451/499		0.206G	0.02303	0.008984	0.0186	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.51it/s]				
	451/499		0.206G	0.02303	0.008984	0.0186	2	320:	
100%	#####		40/40	[00:07<00:00,	5.43it/s]				
	451/499		0.206G	0.02303	0.008984	0.0186	2	320:	
100%	#####		40/40	[00:07<00:00,	5.34it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 15.97it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:00, 17.25it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	17.71it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.84it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	17.33it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	17.65it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	17.07it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	17.44it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	17.65it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.10it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.24it/s]		
	all	40	40	0.955	0.929	0.994
0.816						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
452/499	0.206G	0.02492	0.01397	0.02227	4	320:
0%	0/40	[00:00<?,	?it/s]			
452/499	0.206G	0.02492	0.01397	0.02227	4	320:
2% 2	1/40	[00:00<00:06,	5.70it/s]			
452/499	0.206G	0.02183	0.01198	0.01825	2	320:
2% 2	1/40	[00:00<00:06,	5.70it/s]			
452/499	0.206G	0.02183	0.01198	0.01825	2	320:
5% 5	2/40	[00:00<00:06,	5.77it/s]			
452/499	0.206G	0.03273	0.01148	0.01822	3	320:
5% 5	2/40	[00:00<00:06,	5.77it/s]			
452/499	0.206G	0.03273	0.01148	0.01822	3	320:
8% 7	3/40	[00:00<00:06,	5.51it/s]			
452/499	0.206G	0.03155	0.01258	0.01948	4	320:
8% 7	3/40	[00:00<00:06,	5.51it/s]			
452/499	0.206G	0.03155	0.01258	0.01948	4	320:
10% #	4/40	[00:00<00:06,	5.67it/s]			
452/499	0.206G	0.03038	0.01167	0.02058	3	320:
10% #	4/40	[00:00<00:06,	5.67it/s]			
452/499	0.206G	0.03038	0.01167	0.02058	3	320:
12% #2	5/40	[00:00<00:06,	5.72it/s]			
452/499	0.206G	0.02693	0.01069	0.02048	2	320:
12% #2	5/40	[00:01<00:06,	5.72it/s]			
452/499	0.206G	0.02693	0.01069	0.02048	2	320:
15% #5	6/40	[00:01<00:06,	5.57it/s]			

452/499	0.206G	0.02554	0.01081	0.0203	4	320:
15% #5	6/40 [00:01<00:06,	5.57it/s]				
452/499	0.206G	0.02554	0.01081	0.0203	4	320:
18% #7	7/40 [00:01<00:05,	5.64it/s]				
452/499	0.206G	0.02356	0.009895	0.01963	1	320:
18% #7	7/40 [00:01<00:05,	5.64it/s]				
452/499	0.206G	0.02356	0.009895	0.01963	1	320:
20% ##	8/40 [00:01<00:05,	5.70it/s]				
452/499	0.206G	0.02367	0.01051	0.02059	4	320:
20% ##	8/40 [00:01<00:05,	5.70it/s]				
452/499	0.206G	0.02367	0.01051	0.02059	4	320:
22% ##2	9/40 [00:01<00:05,	5.56it/s]				
452/499	0.206G	0.02259	0.01031	0.02008	2	320:
22% ##2	9/40 [00:01<00:05,	5.56it/s]				
452/499	0.206G	0.02259	0.01031	0.02008	2	320:
25% ##5	10/40 [00:01<00:05,	5.63it/s]				
452/499	0.206G	0.02198	0.01006	0.01945	2	320:
25% ##5	10/40 [00:01<00:05,	5.63it/s]				
452/499	0.206G	0.02198	0.01006	0.01945	2	320:
28% ##7	11/40 [00:01<00:05,	5.54it/s]				
452/499	0.206G	0.0255	0.009746	0.01943	2	320:
28% ##7	11/40 [00:02<00:05,	5.54it/s]				
452/499	0.206G	0.0255	0.009746	0.01943	2	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
452/499	0.206G	0.02411	0.00923	0.0192	1	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
452/499	0.206G	0.02411	0.00923	0.0192	1	320:
32% ###2	13/40 [00:02<00:04,	5.42it/s]				
452/499	0.206G	0.0242	0.008953	0.01909	2	320:
32% ###2	13/40 [00:02<00:04,	5.42it/s]				
452/499	0.206G	0.0242	0.008953	0.01909	2	320:
35% ###5	14/40 [00:02<00:04,	5.53it/s]				
452/499	0.206G	0.02426	0.009774	0.01921	4	320:
35% ###5	14/40 [00:02<00:04,	5.53it/s]				
452/499	0.206G	0.02426	0.009774	0.01921	4	320:
38% ###7	15/40 [00:02<00:04,	5.45it/s]				
452/499	0.206G	0.02422	0.009821	0.01903	2	320:
38% ###7	15/40 [00:02<00:04,	5.45it/s]				
452/499	0.206G	0.02422	0.009821	0.01903	2	320:
40% ####	16/40 [00:02<00:04,	5.57it/s]				
452/499	0.206G	0.0247	0.0104	0.01963	4	320:
40% ####	16/40 [00:03<00:04,	5.57it/s]				
452/499	0.206G	0.0247	0.0104	0.01963	4	320:
42% ####2	17/40 [00:03<00:04,	5.36it/s]				
452/499	0.206G	0.02387	0.01016	0.01997	2	320:
42% ####2	17/40 [00:03<00:04,	5.36it/s]				
452/499	0.206G	0.02387	0.01016	0.01997	2	320:
45% ####5	18/40 [00:03<00:04,	5.49it/s]				

452/499	0.206G	0.02423	0.01011	0.01978	2	320:
45% #####5	18/40 [00:03<00:04,	5.49it/s]				
452/499	0.206G	0.02423	0.01011	0.01978	2	320:
48% #####7	19/40 [00:03<00:03,	5.44it/s]				
452/499	0.206G	0.02592	0.01002	0.01975	3	320:
48% #####7	19/40 [00:03<00:03,	5.44it/s]				
452/499	0.206G	0.02592	0.01002	0.01975	3	320:
50% #####	20/40 [00:03<00:03,	5.27it/s]				
452/499	0.206G	0.02625	0.009858	0.01955	2	320:
50% #####	20/40 [00:03<00:03,	5.27it/s]				
452/499	0.206G	0.02625	0.009858	0.01955	2	320:
52% #####2	21/40 [00:03<00:03,	5.40it/s]				
452/499	0.206G	0.02728	0.009846	0.01946	3	320:
52% #####2	21/40 [00:04<00:03,	5.40it/s]				
452/499	0.206G	0.02728	0.009846	0.01946	3	320:
55% #####5	22/40 [00:04<00:03,	5.25it/s]				
452/499	0.206G	0.02734	0.01	0.01936	4	320:
55% #####5	22/40 [00:04<00:03,	5.25it/s]				
452/499	0.206G	0.02734	0.01	0.01936	4	320:
57% #####7	23/40 [00:04<00:03,	5.27it/s]				
452/499	0.206G	0.02654	0.009681	0.01918	1	320:
57% #####7	23/40 [00:04<00:03,	5.27it/s]				
452/499	0.206G	0.02654	0.009681	0.01918	1	320:
60% #####	24/40 [00:04<00:02,	5.40it/s]				
452/499	0.206G	0.02598	0.009575	0.01903	2	320:
60% #####	24/40 [00:04<00:02,	5.40it/s]				
452/499	0.206G	0.02598	0.009575	0.01903	2	320:
62% #####2	25/40 [00:04<00:02,	5.56it/s]				
452/499	0.206G	0.02623	0.009434	0.01886	2	320:
62% #####2	25/40 [00:04<00:02,	5.56it/s]				
452/499	0.206G	0.02623	0.009434	0.01886	2	320:
65% #####5	26/40 [00:04<00:02,	5.63it/s]				
452/499	0.206G	0.02598	0.009263	0.01948	2	320:
65% #####5	26/40 [00:04<00:02,	5.63it/s]				
452/499	0.206G	0.02598	0.009263	0.01948	2	320:
68% #####7	27/40 [00:04<00:02,	5.31it/s]				
452/499	0.206G	0.02654	0.009557	0.01976	4	320:
68% #####7	27/40 [00:05<00:02,	5.31it/s]				
452/499	0.206G	0.02654	0.009557	0.01976	4	320:
70% #####	28/40 [00:05<00:02,	5.23it/s]				
452/499	0.206G	0.02617	0.009716	0.01969	4	320:
70% #####	28/40 [00:05<00:02,	5.23it/s]				
452/499	0.206G	0.02617	0.009716	0.01969	4	320:
72% #####2	29/40 [00:05<00:02,	5.39it/s]				
452/499	0.206G	0.02687	0.009594	0.0201	2	320:
72% #####2	29/40 [00:05<00:02,	5.39it/s]				
452/499	0.206G	0.02687	0.009594	0.0201	2	320:
75% #####5	30/40 [00:05<00:01,	5.36it/s]				

452/499	0.206G	0.02623	0.009388	0.01984	1	320:
75% #####5	30/40 [00:05<00:01,	5.36it/s]				
452/499	0.206G	0.02623	0.009388	0.01984	1	320:
78% #####7	31/40 [00:05<00:01,	5.49it/s]				
452/499	0.206G	0.02566	0.0092	0.01966	1	320:
78% #####7	31/40 [00:05<00:01,	5.49it/s]				
452/499	0.206G	0.02566	0.0092	0.01966	1	320:
80% #####	32/40 [00:05<00:01,	5.44it/s]				
452/499	0.206G	0.02532	0.00918	0.01961	2	320:
80% #####	32/40 [00:06<00:01,	5.44it/s]				
452/499	0.206G	0.02532	0.00918	0.01961	2	320:
82% #####2	33/40 [00:06<00:01,	5.41it/s]				
452/499	0.206G	0.02607	0.009448	0.01982	2	320:
82% #####2	33/40 [00:06<00:01,	5.41it/s]				
452/499	0.206G	0.02607	0.009448	0.01982	2	320:
85% #####5	34/40 [00:06<00:01,	5.52it/s]				
452/499	0.206G	0.02555	0.009346	0.01965	2	320:
85% #####5	34/40 [00:06<00:01,	5.52it/s]				
452/499	0.206G	0.02555	0.009346	0.01965	2	320:
88% #####7	35/40 [00:06<00:00,	5.51it/s]				
452/499	0.206G	0.02505	0.009179	0.01945	1	320:
88% #####7	35/40 [00:06<00:00,	5.51it/s]				
452/499	0.206G	0.02505	0.009179	0.01945	1	320:
90% #####	36/40 [00:06<00:00,	5.39it/s]				
452/499	0.206G	0.02481	0.009105	0.01936	2	320:
90% #####	36/40 [00:06<00:00,	5.39it/s]				
452/499	0.206G	0.02481	0.009105	0.01936	2	320:
92% #####2	37/40 [00:06<00:00,	5.51it/s]				
452/499	0.206G	0.02456	0.009066	0.01937	2	320:
92% #####2	37/40 [00:06<00:00,	5.51it/s]				
452/499	0.206G	0.02456	0.009066	0.01937	2	320:
95% #####5	38/40 [00:06<00:00,	5.47it/s]				
452/499	0.206G	0.02447	0.009052	0.0194	2	320:
95% #####5	38/40 [00:07<00:00,	5.47it/s]				
452/499	0.206G	0.02447	0.009052	0.0194	2	320:
98% #####7	39/40 [00:07<00:00,	5.52it/s]				
452/499	0.206G	0.02438	0.009184	0.01941	4	320:
98% #####7	39/40 [00:07<00:00,	5.52it/s]				
452/499	0.206G	0.02438	0.009184	0.01941	4	320:
100% #####	40/40 [00:07<00:00,	5.46it/s]				
452/499	0.206G	0.02438	0.009184	0.01941	4	320:
100% #####	40/40 [00:07<00:00,	5.47it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:00,	18.28it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 18.19it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 16.13it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 16.92it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.39it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.34it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 17.87it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 18.00it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 17.32it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.61it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.49it/s]					
	all	40	40	0.972	0.975	0.991	
0.79							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
453/499	0.206G	0.02767	0.01039	0.02102	4	320:
0%	0/40 [00:00<?, ?it/s]					
453/499	0.206G	0.02767	0.01039	0.02102	4	320:
2% 2	1/40 [00:00<00:06, 5.84it/s]					
453/499	0.206G	0.01776	0.00643	0.01706	1	320:
2% 2	1/40 [00:00<00:06, 5.84it/s]					
453/499	0.206G	0.01776	0.00643	0.01706	1	320:
5% 5	2/40 [00:00<00:06, 5.78it/s]					
453/499	0.206G	0.02296	0.01071	0.01847	4	320:
5% 5	2/40 [00:00<00:06, 5.78it/s]					
453/499	0.206G	0.02296	0.01071	0.01847	4	320:
8% 7	3/40 [00:00<00:06, 5.57it/s]					
453/499	0.206G	0.02693	0.01123	0.02101	4	320:
8% 7	3/40 [00:00<00:06, 5.57it/s]					
453/499	0.206G	0.02693	0.01123	0.02101	4	320:
10% #	4/40 [00:00<00:06, 5.47it/s]					
453/499	0.206G	0.02566	0.01165	0.02027	4	320:
10% #	4/40 [00:00<00:06, 5.47it/s]					
453/499	0.206G	0.02566	0.01165	0.02027	4	320:
12% #2	5/40 [00:00<00:06, 5.57it/s]					
453/499	0.206G	0.02608	0.01102	0.01948	2	320:
12% #2	5/40 [00:01<00:06, 5.57it/s]					
453/499	0.206G	0.02608	0.01102	0.01948	2	320:

15% #5	6/40 [00:01<00:06,	5.33it/s]				
453/499	0.206G	0.02566	0.01119	0.01971	4	320:
15% #5	6/40 [00:01<00:06,	5.33it/s]				
453/499	0.206G	0.02566	0.01119	0.01971	4	320:
18% #7	7/40 [00:01<00:06,	5.48it/s]				
453/499	0.206G	0.02376	0.01116	0.01899	4	320:
18% #7	7/40 [00:01<00:06,	5.48it/s]				
453/499	0.206G	0.02376	0.01116	0.01899	4	320:
20% ##	8/40 [00:01<00:05,	5.56it/s]				
453/499	0.206G	0.02263	0.01051	0.01877	1	320:
20% ##	8/40 [00:01<00:05,	5.56it/s]				
453/499	0.206G	0.02263	0.01051	0.01877	1	320:
22% ##2	9/40 [00:01<00:05,	5.80it/s]				
453/499	0.206G	0.02156	0.01004	0.01957	2	320:
22% ##2	9/40 [00:01<00:05,	5.80it/s]				
453/499	0.206G	0.02156	0.01004	0.01957	2	320:
25% ##5	10/40 [00:01<00:05,	5.81it/s]				
453/499	0.206G	0.02111	0.01011	0.0194	2	320:
25% ##5	10/40 [00:01<00:05,	5.81it/s]				
453/499	0.206G	0.02111	0.01011	0.0194	2	320:
28% ##7	11/40 [00:01<00:05,	5.79it/s]				
453/499	0.206G	0.02165	0.01057	0.02018	4	320:
28% ##7	11/40 [00:02<00:05,	5.79it/s]				
453/499	0.206G	0.02165	0.01057	0.02018	4	320:
30% ###	12/40 [00:02<00:05,	5.49it/s]				
453/499	0.206G	0.0225	0.01028	0.01978	2	320:
30% ###	12/40 [00:02<00:05,	5.49it/s]				
453/499	0.206G	0.0225	0.01028	0.01978	2	320:
32% ###2	13/40 [00:02<00:05,	5.29it/s]				
453/499	0.206G	0.02377	0.01015	0.02111	2	320:
32% ###2	13/40 [00:02<00:05,	5.29it/s]				
453/499	0.206G	0.02377	0.01015	0.02111	2	320:
35% ###5	14/40 [00:02<00:05,	5.07it/s]				
453/499	0.206G	0.02332	0.009965	0.02069	2	320:
35% ###5	14/40 [00:02<00:05,	5.07it/s]				
453/499	0.206G	0.02332	0.009965	0.02069	2	320:
38% ###7	15/40 [00:02<00:04,	5.02it/s]				
453/499	0.206G	0.02322	0.01029	0.02043	4	320:
38% ###7	15/40 [00:02<00:04,	5.02it/s]				
453/499	0.206G	0.02322	0.01029	0.02043	4	320:
40% ####	16/40 [00:02<00:04,	4.98it/s]				
453/499	0.206G	0.02304	0.0103	0.02024	2	320:
40% ####	16/40 [00:03<00:04,	4.98it/s]				
453/499	0.206G	0.02304	0.0103	0.02024	2	320:
42% ####2	17/40 [00:03<00:04,	5.08it/s]				
453/499	0.206G	0.02251	0.01007	0.0199	2	320:
42% ####2	17/40 [00:03<00:04,	5.08it/s]				
453/499	0.206G	0.02251	0.01007	0.0199	2	320:

45% #####5	18/40 [00:03<00:04, 4.80it/s]						
453/499	0.206G 0.02183 0.009729 0.01948	1	320:				
45% #####5	18/40 [00:03<00:04, 4.80it/s]						
453/499	0.206G 0.02183 0.009729 0.01948	1	320:				
48% #####7	19/40 [00:03<00:04, 4.92it/s]						
453/499	0.206G 0.02129 0.009586 0.01925	2	320:				
48% #####7	19/40 [00:03<00:04, 4.92it/s]						
453/499	0.206G 0.02129 0.009586 0.01925	2	320:				
50% #####	20/40 [00:03<00:04, 4.92it/s]						
453/499	0.206G 0.02108 0.009766 0.01932	4	320:				
50% #####	20/40 [00:04<00:04, 4.92it/s]						
453/499	0.206G 0.02108 0.009766 0.01932	4	320:				
52% #####2	21/40 [00:04<00:03, 4.91it/s]						
453/499	0.206G 0.02133 0.009804 0.0195	4	320:				
52% #####2	21/40 [00:04<00:03, 4.91it/s]						
453/499	0.206G 0.02133 0.009804 0.0195	4	320:				
55% #####5	22/40 [00:04<00:03, 4.80it/s]						
453/499	0.206G 0.02107 0.009687 0.0193	2	320:				
55% #####5	22/40 [00:04<00:03, 4.80it/s]						
453/499	0.206G 0.02107 0.009687 0.0193	2	320:				
57% #####7	23/40 [00:04<00:03, 4.95it/s]						
453/499	0.206G 0.02123 0.009805 0.01956	4	320:				
57% #####7	23/40 [00:04<00:03, 4.95it/s]						
453/499	0.206G 0.02123 0.009805 0.01956	4	320:				
60% #####	24/40 [00:04<00:03, 4.82it/s]						
453/499	0.206G 0.02071 0.009559 0.01963	1	320:				
60% #####	24/40 [00:04<00:03, 4.82it/s]						
453/499	0.206G 0.02071 0.009559 0.01963	1	320:				
62% #####2	25/40 [00:04<00:03, 4.97it/s]						
453/499	0.206G 0.02073 0.009734 0.01958	4	320:				
62% #####2	25/40 [00:05<00:03, 4.97it/s]						
453/499	0.206G 0.02073 0.009734 0.01958	4	320:				
65% #####5	26/40 [00:05<00:02, 4.97it/s]						
453/499	0.206G 0.0214 0.009823 0.02001	4	320:				
65% #####5	26/40 [00:05<00:02, 4.97it/s]						
453/499	0.206G 0.0214 0.009823 0.02001	4	320:				
68% #####7	27/40 [00:05<00:02, 4.94it/s]						
453/499	0.206G 0.02141 0.01002 0.01986	2	320:				
68% #####7	27/40 [00:05<00:02, 4.94it/s]						
453/499	0.206G 0.02141 0.01002 0.01986	2	320:				
70% #####	28/40 [00:05<00:02, 5.17it/s]						
453/499	0.206G 0.02124 0.009961 0.01979	2	320:				
70% #####	28/40 [00:05<00:02, 5.17it/s]						
453/499	0.206G 0.02124 0.009961 0.01979	2	320:				
72% #####2	29/40 [00:05<00:02, 5.22it/s]						
453/499	0.206G 0.02134 0.009924 0.02001	2	320:				
72% #####2	29/40 [00:05<00:02, 5.22it/s]						
453/499	0.206G 0.02134 0.009924 0.02001	2	320:				

75% #####5		30/40	[00:05<00:01,	5.37it/s]			
453/499		0.206G	0.02121	0.009842	0.02024	2	320:
75% #####5		30/40	[00:05<00:01,	5.37it/s]			
453/499		0.206G	0.02121	0.009842	0.02024	2	320:
78% #####7		31/40	[00:05<00:01,	5.49it/s]			
453/499		0.206G	0.02099	0.009767	0.02009	1	320:
78% #####7		31/40	[00:06<00:01,	5.49it/s]			
453/499		0.206G	0.02099	0.009767	0.02009	1	320:
80% #####		32/40	[00:06<00:01,	5.50it/s]			
453/499		0.206G	0.02066	0.00972	0.01994	2	320:
80% #####		32/40	[00:06<00:01,	5.50it/s]			
453/499		0.206G	0.02066	0.00972	0.01994	2	320:
82% #####2		33/40	[00:06<00:01,	5.50it/s]			
453/499		0.206G	0.02005	0.009498	0.01935	0	320:
82% #####2		33/40	[00:06<00:01,	5.50it/s]			
453/499		0.206G	0.02005	0.009498	0.01935	0	320:
85% #####5		34/40	[00:06<00:01,	5.89it/s]			
453/499		0.206G	0.01977	0.009316	0.01946	1	320:
85% #####5		34/40	[00:06<00:01,	5.89it/s]			
453/499		0.206G	0.01977	0.009316	0.01946	1	320:
88% #####7		35/40	[00:06<00:00,	5.80it/s]			
453/499		0.206G	0.01974	0.009313	0.0194	3	320:
88% #####7		35/40	[00:06<00:00,	5.80it/s]			
453/499		0.206G	0.01974	0.009313	0.0194	3	320:
90% #####		36/40	[00:06<00:00,	5.86it/s]			
453/499		0.206G	0.01962	0.009271	0.01933	2	320:
90% #####		36/40	[00:06<00:00,	5.86it/s]			
453/499		0.206G	0.01962	0.009271	0.01933	2	320:
92% #####2		37/40	[00:06<00:00,	5.69it/s]			
453/499		0.206G	0.01942	0.009177	0.01933	2	320:
92% #####2		37/40	[00:07<00:00,	5.69it/s]			
453/499		0.206G	0.01942	0.009177	0.01933	2	320:
95% #####5		38/40	[00:07<00:00,	5.70it/s]			
453/499		0.206G	0.01926	0.009189	0.01932	2	320:
95% #####5		38/40	[00:07<00:00,	5.70it/s]			
453/499		0.206G	0.01926	0.009189	0.01932	2	320:
98% #####7		39/40	[00:07<00:00,	5.75it/s]			
453/499		0.206G	0.01921	0.00911	0.01921	1	320:
98% #####7		39/40	[00:07<00:00,	5.75it/s]			
453/499		0.206G	0.01921	0.00911	0.01921	1	320:
100% #####		40/40	[00:07<00:00,	5.93it/s]			
453/499		0.206G	0.01921	0.00911	0.01921	1	320:
100% #####		40/40	[00:07<00:00,	5.36it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:00, 18.28it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00,	18.21it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	18.24it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	15.62it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.04it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	16.16it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	16.78it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	16.53it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.01it/s]		
	all	40	40	0.972	0.975	0.991

0.79

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
454/499	0.206G	0.00983	0.00399	0.01128	1	320:
0%	0/40	[00:00<?, ?it/s]				
454/499	0.206G	0.00983	0.00399	0.01128	1	320:
2% 2	1/40	[00:00<00:06,	6.44it/s]			
454/499	0.206G	0.009654	0.004511	0.01233	1	320:
2% 2	1/40	[00:00<00:06,	6.44it/s]			
454/499	0.206G	0.009654	0.004511	0.01233	1	320:
5% 5	2/40	[00:00<00:05,	6.34it/s]			
454/499	0.206G	0.01511	0.007337	0.01362	4	320:
5% 5	2/40	[00:00<00:05,	6.34it/s]			
454/499	0.206G	0.01511	0.007337	0.01362	4	320:
8% 7	3/40	[00:00<00:06,	5.60it/s]			
454/499	0.206G	0.01476	0.006489	0.01381	1	320:
8% 7	3/40	[00:00<00:06,	5.60it/s]			
454/499	0.206G	0.01476	0.006489	0.01381	1	320:
10% #	4/40	[00:00<00:06,	5.57it/s]			
454/499	0.206G	0.01739	0.008917	0.01633	4	320:
10% #	4/40	[00:00<00:06,	5.57it/s]			
454/499	0.206G	0.01739	0.008917	0.01633	4	320:
12% #2	5/40	[00:00<00:06,	5.74it/s]			
454/499	0.206G	0.01842	0.01044	0.01719	4	320:
12% #2	5/40	[00:01<00:06,	5.74it/s]			
454/499	0.206G	0.01842	0.01044	0.01719	4	320:
15% #5	6/40	[00:01<00:06,	5.43it/s]			

454/499	0.206G	0.01851	0.00981	0.01704	2	320:
15% #5	6/40 [00:01<00:06,	5.43it/s]				
454/499	0.206G	0.01851	0.00981	0.01704	2	320:
18% #7	7/40 [00:01<00:06,	5.40it/s]				
454/499	0.206G	0.01997	0.01109	0.01799	4	320:
18% #7	7/40 [00:01<00:06,	5.40it/s]				
454/499	0.206G	0.01997	0.01109	0.01799	4	320:
20% ##	8/40 [00:01<00:05,	5.53it/s]				
454/499	0.206G	0.01886	0.01026	0.01726	1	320:
20% ##	8/40 [00:01<00:05,	5.53it/s]				
454/499	0.206G	0.01886	0.01026	0.01726	1	320:
22% ##2	9/40 [00:01<00:05,	5.57it/s]				
454/499	0.206G	0.02174	0.01038	0.01867	2	320:
22% ##2	9/40 [00:01<00:05,	5.57it/s]				
454/499	0.206G	0.02174	0.01038	0.01867	2	320:
25% ##5	10/40 [00:01<00:05,	5.52it/s]				
454/499	0.206G	0.02072	0.009707	0.01852	1	320:
25% ##5	10/40 [00:01<00:05,	5.52it/s]				
454/499	0.206G	0.02072	0.009707	0.01852	1	320:
28% ##7	11/40 [00:01<00:05,	5.61it/s]				
454/499	0.206G	0.01982	0.00914	0.01821	1	320:
28% ##7	11/40 [00:02<00:05,	5.61it/s]				
454/499	0.206G	0.01982	0.00914	0.01821	1	320:
30% ###	12/40 [00:02<00:05,	5.52it/s]				
454/499	0.206G	0.02048	0.009177	0.01827	2	320:
30% ###	12/40 [00:02<00:05,	5.52it/s]				
454/499	0.206G	0.02048	0.009177	0.01827	2	320:
32% ###2	13/40 [00:02<00:04,	5.58it/s]				
454/499	0.206G	0.02155	0.009092	0.01895	2	320:
32% ###2	13/40 [00:02<00:04,	5.58it/s]				
454/499	0.206G	0.02155	0.009092	0.01895	2	320:
35% ###5	14/40 [00:02<00:04,	5.23it/s]				
454/499	0.206G	0.02113	0.009277	0.01929	4	320:
35% ###5	14/40 [00:02<00:04,	5.23it/s]				
454/499	0.206G	0.02113	0.009277	0.01929	4	320:
38% ###7	15/40 [00:02<00:04,	5.13it/s]				
454/499	0.206G	0.0207	0.009105	0.01899	2	320:
38% ###7	15/40 [00:02<00:04,	5.13it/s]				
454/499	0.206G	0.0207	0.009105	0.01899	2	320:
40% ####	16/40 [00:02<00:04,	5.31it/s]				
454/499	0.206G	0.01999	0.008735	0.01914	1	320:
40% ####	16/40 [00:03<00:04,	5.31it/s]				
454/499	0.206G	0.01999	0.008735	0.01914	1	320:
42% ####2	17/40 [00:03<00:04,	5.45it/s]				
454/499	0.206G	0.02003	0.00864	0.01892	2	320:
42% ####2	17/40 [00:03<00:04,	5.45it/s]				
454/499	0.206G	0.02003	0.00864	0.01892	2	320:
45% ####5	18/40 [00:03<00:04,	5.42it/s]				

454/499	0.206G	0.02021	0.008876	0.01912	4	320:
45% #####5	18/40 [00:03<00:04,	5.42it/s]				
454/499	0.206G	0.02021	0.008876	0.01912	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
454/499	0.206G	0.01995	0.008894	0.01918	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
454/499	0.206G	0.01995	0.008894	0.01918	4	320:
50% #####	20/40 [00:03<00:03,	5.19it/s]				
454/499	0.206G	0.01945	0.008728	0.01898	2	320:
50% #####	20/40 [00:03<00:03,	5.19it/s]				
454/499	0.206G	0.01945	0.008728	0.01898	2	320:
52% #####2	21/40 [00:03<00:03,	5.24it/s]				
454/499	0.206G	0.02004	0.008819	0.019	4	320:
52% #####2	21/40 [00:04<00:03,	5.24it/s]				
454/499	0.206G	0.02004	0.008819	0.019	4	320:
55% #####5	22/40 [00:04<00:03,	5.26it/s]				
454/499	0.206G	0.01997	0.008757	0.01879	2	320:
55% #####5	22/40 [00:04<00:03,	5.26it/s]				
454/499	0.206G	0.01997	0.008757	0.01879	2	320:
57% #####7	23/40 [00:04<00:03,	5.28it/s]				
454/499	0.206G	0.01984	0.008521	0.01897	1	320:
57% #####7	23/40 [00:04<00:03,	5.28it/s]				
454/499	0.206G	0.01984	0.008521	0.01897	1	320:
60% #####	24/40 [00:04<00:02,	5.46it/s]				
454/499	0.206G	0.01935	0.008433	0.01876	2	320:
60% #####	24/40 [00:04<00:02,	5.46it/s]				
454/499	0.206G	0.01935	0.008433	0.01876	2	320:
62% #####2	25/40 [00:04<00:02,	5.66it/s]				
454/499	0.206G	0.02017	0.008347	0.01891	2	320:
62% #####2	25/40 [00:04<00:02,	5.66it/s]				
454/499	0.206G	0.02017	0.008347	0.01891	2	320:
65% #####5	26/40 [00:04<00:02,	5.56it/s]				
454/499	0.206G	0.0198	0.008335	0.01872	2	320:
65% #####5	26/40 [00:04<00:02,	5.56it/s]				
454/499	0.206G	0.0198	0.008335	0.01872	2	320:
68% #####7	27/40 [00:04<00:02,	5.38it/s]				
454/499	0.206G	0.0193	0.008174	0.01853	1	320:
68% #####7	27/40 [00:05<00:02,	5.38it/s]				
454/499	0.206G	0.0193	0.008174	0.01853	1	320:
70% #####	28/40 [00:05<00:02,	5.45it/s]				
454/499	0.206G	0.02082	0.008194	0.01857	2	320:
70% #####	28/40 [00:05<00:02,	5.45it/s]				
454/499	0.206G	0.02082	0.008194	0.01857	2	320:
72% #####2	29/40 [00:05<00:02,	5.41it/s]				
454/499	0.206G	0.02108	0.008669	0.01892	4	320:
72% #####2	29/40 [00:05<00:02,	5.41it/s]				
454/499	0.206G	0.02108	0.008669	0.01892	4	320:
75% #####5	30/40 [00:05<00:01,	5.37it/s]				

	454/499	0.206G	0.02171	0.00877	0.01893	4	320:
75% #####5	30/40	[00:05<00:01,	5.37it/s]				
	454/499	0.206G	0.02171	0.00877	0.01893	4	320:
78% #####7	31/40	[00:05<00:01,	5.45it/s]				
	454/499	0.206G	0.02134	0.00866	0.01881	2	320:
78% #####7	31/40	[00:05<00:01,	5.45it/s]				
	454/499	0.206G	0.02134	0.00866	0.01881	2	320:
80% #####	32/40	[00:05<00:01,	5.60it/s]				
	454/499	0.206G	0.02145	0.008679	0.01885	2	320:
80% #####	32/40	[00:06<00:01,	5.60it/s]				
	454/499	0.206G	0.02145	0.008679	0.01885	2	320:
82% #####2	33/40	[00:06<00:01,	5.66it/s]				
	454/499	0.206G	0.02221	0.008772	0.01943	2	320:
82% #####2	33/40	[00:06<00:01,	5.66it/s]				
	454/499	0.206G	0.02221	0.008772	0.01943	2	320:
85% #####5	34/40	[00:06<00:01,	5.70it/s]				
	454/499	0.206G	0.02296	0.008708	0.01989	2	320:
85% #####5	34/40	[00:06<00:01,	5.70it/s]				
	454/499	0.206G	0.02296	0.008708	0.01989	2	320:
88% #####7	35/40	[00:06<00:00,	5.59it/s]				
	454/499	0.206G	0.02289	0.008918	0.01999	4	320:
88% #####7	35/40	[00:06<00:00,	5.59it/s]				
	454/499	0.206G	0.02289	0.008918	0.01999	4	320:
90% #####	36/40	[00:06<00:00,	5.65it/s]				
	454/499	0.206G	0.02265	0.008791	0.01983	1	320:
90% #####	36/40	[00:06<00:00,	5.65it/s]				
	454/499	0.206G	0.02265	0.008791	0.01983	1	320:
92% #####2	37/40	[00:06<00:00,	5.70it/s]				
	454/499	0.206G	0.023	0.008757	0.0198	2	320:
92% #####2	37/40	[00:06<00:00,	5.70it/s]				
	454/499	0.206G	0.023	0.008757	0.0198	2	320:
95% #####5	38/40	[00:06<00:00,	5.73it/s]				
	454/499	0.206G	0.02263	0.008618	0.01959	1	320:
95% #####5	38/40	[00:07<00:00,	5.73it/s]				
	454/499	0.206G	0.02263	0.008618	0.01959	1	320:
98% #####7	39/40	[00:07<00:00,	5.74it/s]				
	454/499	0.206G	0.02309	0.008745	0.01976	3	320:
98% #####7	39/40	[00:07<00:00,	5.74it/s]				
	454/499	0.206G	0.02309	0.008745	0.01976	3	320:
100% #####	40/40	[00:07<00:00,	5.77it/s]				
	454/499	0.206G	0.02309	0.008745	0.01976	3	320:
100% #####	40/40	[00:07<00:00,	5.52it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20	[00:00<00:01, 16.08it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 17.31it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20 [00:00<00:00, 17.51it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20 [00:00<00:00, 16.82it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.32it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20 [00:00<00:00, 16.85it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	15/20 [00:00<00:00, 16.41it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20 [00:01<00:00, 16.29it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.28it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.98it/s]				
	all	40	40	0.98	0.975	0.991
0.787						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
455/499	0.206G	0.0216	0.01413	0.02029	4	320:
0%	0/40 [00:00<?, ?it/s]					
455/499	0.206G	0.0216	0.01413	0.02029	4	320:
2% 2	1/40 [00:00<00:07, 5.33it/s]					
455/499	0.206G	0.01662	0.008568	0.0168	1	320:
2% 2	1/40 [00:00<00:07, 5.33it/s]					
455/499	0.206G	0.01662	0.008568	0.0168	1	320:
5% 5	2/40 [00:00<00:07, 5.17it/s]					
455/499	0.206G	0.02236	0.01018	0.01982	3	320:
5% 5	2/40 [00:00<00:07, 5.17it/s]					
455/499	0.206G	0.02236	0.01018	0.01982	3	320:
8% 7	3/40 [00:00<00:07, 5.18it/s]					
455/499	0.206G	0.02264	0.01032	0.01837	2	320:
8% 7	3/40 [00:00<00:07, 5.18it/s]					
455/499	0.206G	0.02264	0.01032	0.01837	2	320:
10% #	4/40 [00:00<00:07, 5.08it/s]					
455/499	0.206G	0.02177	0.01106	0.02088	4	320:
10% #	4/40 [00:01<00:07, 5.08it/s]					
455/499	0.206G	0.02177	0.01106	0.02088	4	320:
12% #2	5/40 [00:01<00:07, 4.87it/s]					
455/499	0.206G	0.01922	0.009809	0.02052	1	320:
12% #2	5/40 [00:01<00:07, 4.87it/s]					
455/499	0.206G	0.01922	0.009809	0.02052	1	320:
15% #5	6/40 [00:01<00:06, 4.88it/s]					
455/499	0.206G	0.02079	0.01003	0.02232	3	320:

15% #5	6/40 [00:01<00:06,	4.88it/s]				
455/499	0.206G	0.02079	0.01003	0.02232	3	320:
18% #7	7/40 [00:01<00:06,	4.90it/s]				
455/499	0.206G	0.01944	0.009365	0.02186	1	320:
18% #7	7/40 [00:01<00:06,	4.90it/s]				
455/499	0.206G	0.01944	0.009365	0.02186	1	320:
20% ##	8/40 [00:01<00:06,	5.00it/s]				
455/499	0.206G	0.02282	0.008937	0.02158	2	320:
20% ##	8/40 [00:01<00:06,	5.00it/s]				
455/499	0.206G	0.02282	0.008937	0.02158	2	320:
22% ##2	9/40 [00:01<00:06,	4.86it/s]				
455/499	0.206G	0.02159	0.008505	0.02185	1	320:
22% ##2	9/40 [00:02<00:06,	4.86it/s]				
455/499	0.206G	0.02159	0.008505	0.02185	1	320:
25% ##5	10/40 [00:02<00:06,	4.87it/s]				
455/499	0.206G	0.02427	0.008571	0.02147	4	320:
25% ##5	10/40 [00:02<00:06,	4.87it/s]				
455/499	0.206G	0.02427	0.008571	0.02147	4	320:
28% ##7	11/40 [00:02<00:06,	4.77it/s]				
455/499	0.206G	0.02329	0.008811	0.02199	4	320:
28% ##7	11/40 [00:02<00:06,	4.77it/s]				
455/499	0.206G	0.02329	0.008811	0.02199	4	320:
30% ###	12/40 [00:02<00:05,	4.71it/s]				
455/499	0.206G	0.02207	0.008346	0.02193	1	320:
30% ###	12/40 [00:02<00:05,	4.71it/s]				
455/499	0.206G	0.02207	0.008346	0.02193	1	320:
32% ###2	13/40 [00:02<00:05,	4.87it/s]				
455/499	0.206G	0.02246	0.008087	0.02105	1	320:
32% ###2	13/40 [00:02<00:05,	4.87it/s]				
455/499	0.206G	0.02246	0.008087	0.02105	1	320:
35% ###5	14/40 [00:02<00:05,	5.00it/s]				
455/499	0.206G	0.02243	0.008084	0.02059	2	320:
35% ###5	14/40 [00:03<00:05,	5.00it/s]				
455/499	0.206G	0.02243	0.008084	0.02059	2	320:
38% ###7	15/40 [00:03<00:05,	4.91it/s]				
455/499	0.206G	0.02156	0.007815	0.0206	1	320:
38% ###7	15/40 [00:03<00:05,	4.91it/s]				
455/499	0.206G	0.02156	0.007815	0.0206	1	320:
40% ####	16/40 [00:03<00:04,	5.08it/s]				
455/499	0.206G	0.02252	0.007846	0.02256	2	320:
40% ####	16/40 [00:03<00:04,	5.08it/s]				
455/499	0.206G	0.02252	0.007846	0.02256	2	320:
42% ####2	17/40 [00:03<00:04,	5.03it/s]				
455/499	0.206G	0.02334	0.007775	0.02433	2	320:
42% ####2	17/40 [00:03<00:04,	5.03it/s]				
455/499	0.206G	0.02334	0.007775	0.02433	2	320:
45% ####5	18/40 [00:03<00:04,	5.24it/s]				
455/499	0.206G	0.02279	0.007535	0.02361	1	320:

45% #####5	18/40 [00:03<00:04,	5.24it/s]				
455/499	0.206G	0.02279	0.007535	0.02361	1	320:
48% #####7	19/40 [00:03<00:03,	5.40it/s]				
455/499	0.206G	0.02201	0.007319	0.02303	1	320:
48% #####7	19/40 [00:03<00:03,	5.40it/s]				
455/499	0.206G	0.02201	0.007319	0.02303	1	320:
50% #####	20/40 [00:03<00:03,	5.52it/s]				
455/499	0.206G	0.02141	0.007249	0.02314	2	320:
50% #####	20/40 [00:04<00:03,	5.52it/s]				
455/499	0.206G	0.02141	0.007249	0.02314	2	320:
52% #####2	21/40 [00:04<00:03,	5.64it/s]				
455/499	0.206G	0.02153	0.007691	0.02302	4	320:
52% #####2	21/40 [00:04<00:03,	5.64it/s]				
455/499	0.206G	0.02153	0.007691	0.02302	4	320:
55% #####5	22/40 [00:04<00:03,	5.78it/s]				
455/499	0.206G	0.02091	0.007467	0.02255	1	320:
55% #####5	22/40 [00:04<00:03,	5.78it/s]				
455/499	0.206G	0.02091	0.007467	0.02255	1	320:
57% #####7	23/40 [00:04<00:03,	5.49it/s]				
455/499	0.206G	0.02155	0.007421	0.02226	2	320:
57% #####7	23/40 [00:04<00:03,	5.49it/s]				
455/499	0.206G	0.02155	0.007421	0.02226	2	320:
60% #####	24/40 [00:04<00:03,	5.30it/s]				
455/499	0.206G	0.02118	0.007274	0.02198	1	320:
60% #####	24/40 [00:04<00:03,	5.30it/s]				
455/499	0.206G	0.02118	0.007274	0.02198	1	320:
62% #####2	25/40 [00:04<00:02,	5.45it/s]				
455/499	0.206G	0.02076	0.007128	0.02168	1	320:
62% #####2	25/40 [00:05<00:02,	5.45it/s]				
455/499	0.206G	0.02076	0.007128	0.02168	1	320:
65% #####5	26/40 [00:05<00:02,	5.55it/s]				
455/499	0.206G	0.02072	0.007526	0.02149	4	320:
65% #####5	26/40 [00:05<00:02,	5.55it/s]				
455/499	0.206G	0.02072	0.007526	0.02149	4	320:
68% #####7	27/40 [00:05<00:02,	5.46it/s]				
455/499	0.206G	0.02036	0.007375	0.02121	1	320:
68% #####7	27/40 [00:05<00:02,	5.46it/s]				
455/499	0.206G	0.02036	0.007375	0.02121	1	320:
70% #####	28/40 [00:05<00:02,	5.42it/s]				
455/499	0.206G	0.02051	0.007533	0.02094	2	320:
70% #####	28/40 [00:05<00:02,	5.42it/s]				
455/499	0.206G	0.02051	0.007533	0.02094	2	320:
72% #####2	29/40 [00:05<00:01,	5.54it/s]				
455/499	0.206G	0.02041	0.007432	0.02081	2	320:
72% #####2	29/40 [00:05<00:01,	5.54it/s]				
455/499	0.206G	0.02041	0.007432	0.02081	2	320:
75% #####5	30/40 [00:05<00:01,	5.62it/s]				
455/499	0.206G	0.02062	0.007484	0.02104	2	320:

75%	#####5		30/40	[00:05<00:01,	5.62it/s]			
	455/499		0.206G	0.02062	0.007484	0.02104	2	320:
78%	#####7		31/40	[00:05<00:01,	5.53it/s]			
	455/499		0.206G	0.02022	0.007336	0.02079	1	320:
78%	#####7		31/40	[00:06<00:01,	5.53it/s]			
	455/499		0.206G	0.02022	0.007336	0.02079	1	320:
80%	#####		32/40	[00:06<00:01,	5.77it/s]			
	455/499		0.206G	0.01984	0.007249	0.02073	1	320:
80%	#####		32/40	[00:06<00:01,	5.77it/s]			
	455/499		0.206G	0.01984	0.007249	0.02073	1	320:
82%	#####2		33/40	[00:06<00:01,	5.76it/s]			
	455/499		0.206G	0.01987	0.007253	0.02118	2	320:
82%	#####2		33/40	[00:06<00:01,	5.76it/s]			
	455/499		0.206G	0.01987	0.007253	0.02118	2	320:
85%	#####5		34/40	[00:06<00:01,	5.62it/s]			
	455/499		0.206G	0.01962	0.007159	0.02107	2	320:
85%	#####5		34/40	[00:06<00:01,	5.62it/s]			
	455/499		0.206G	0.01962	0.007159	0.02107	2	320:
88%	#####7		35/40	[00:06<00:00,	5.68it/s]			
	455/499		0.206G	0.01951	0.007093	0.02085	2	320:
88%	#####7		35/40	[00:06<00:00,	5.68it/s]			
	455/499		0.206G	0.01951	0.007093	0.02085	2	320:
90%	#####		36/40	[00:06<00:00,	5.69it/s]			
	455/499		0.206G	0.01942	0.007213	0.02076	4	320:
90%	#####		36/40	[00:06<00:00,	5.69it/s]			
	455/499		0.206G	0.01942	0.007213	0.02076	4	320:
92%	#####2		37/40	[00:06<00:00,	5.58it/s]			
	455/499		0.206G	0.01946	0.00727	0.02067	2	320:
92%	#####2		37/40	[00:07<00:00,	5.58it/s]			
	455/499		0.206G	0.01946	0.00727	0.02067	2	320:
95%	#####5		38/40	[00:07<00:00,	5.80it/s]			
	455/499		0.206G	0.01948	0.00751	0.02063	4	320:
95%	#####5		38/40	[00:07<00:00,	5.80it/s]			
	455/499		0.206G	0.01948	0.00751	0.02063	4	320:
98%	#####7		39/40	[00:07<00:00,	5.79it/s]			
	455/499		0.206G	0.01967	0.007664	0.02062	3	320:
98%	#####7		39/40	[00:07<00:00,	5.79it/s]			
	455/499		0.206G	0.01967	0.007664	0.02062	3	320:
100%	#####		40/40	[00:07<00:00,	5.64it/s]			
	455/499		0.206G	0.01967	0.007664	0.02062	3	320:
100%	#####		40/40	[00:07<00:00,	5.33it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 16.00it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:01, 14.78it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	16.19it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.96it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	17.41it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	17.70it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	17.70it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	17.19it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	17.49it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.75it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.23it/s]		
	all	40	40	0.98	0.975	0.991

0.787

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
456/499	0.206G	0.0451	0.008728	0.04184	2	320:
0%	0/40	[00:00<?,	?it/s]			
456/499	0.206G	0.0451	0.008728	0.04184	2	320:
2% 2	1/40	[00:00<00:06,	6.40it/s]			
456/499	0.206G	0.0358	0.007232	0.04962	2	320:
2% 2	1/40	[00:00<00:06,	6.40it/s]			
456/499	0.206G	0.0358	0.007232	0.04962	2	320:
5% 5	2/40	[00:00<00:06,	5.44it/s]			
456/499	0.206G	0.02961	0.007378	0.03763	2	320:
5% 5	2/40	[00:00<00:06,	5.44it/s]			
456/499	0.206G	0.02961	0.007378	0.03763	2	320:
8% 7	3/40	[00:00<00:06,	5.57it/s]			
456/499	0.206G	0.02699	0.008185	0.03471	4	320:
8% 7	3/40	[00:00<00:06,	5.57it/s]			
456/499	0.206G	0.02699	0.008185	0.03471	4	320:
10% #	4/40	[00:00<00:06,	5.29it/s]			
456/499	0.206G	0.02879	0.008346	0.03451	2	320:
10% #	4/40	[00:00<00:06,	5.29it/s]			
456/499	0.206G	0.02879	0.008346	0.03451	2	320:
12% #2	5/40	[00:00<00:06,	5.28it/s]			
456/499	0.206G	0.02603	0.008422	0.03126	2	320:
12% #2	5/40	[00:01<00:06,	5.28it/s]			
456/499	0.206G	0.02603	0.008422	0.03126	2	320:
15% #5	6/40	[00:01<00:06,	5.62it/s]			

456/499	0.206G	0.02368	0.007918	0.02921	2	320:
15% #5	6/40 [00:01<00:06,	5.62it/s]				
456/499	0.206G	0.02368	0.007918	0.02921	2	320:
18% #7	7/40 [00:01<00:05,	5.52it/s]				
456/499	0.206G	0.02282	0.007583	0.02743	1	320:
18% #7	7/40 [00:01<00:05,	5.52it/s]				
456/499	0.206G	0.02282	0.007583	0.02743	1	320:
20% ##	8/40 [00:01<00:05,	5.47it/s]				
456/499	0.206G	0.02413	0.008464	0.02793	4	320:
20% ##	8/40 [00:01<00:05,	5.47it/s]				
456/499	0.206G	0.02413	0.008464	0.02793	4	320:
22% ##2	9/40 [00:01<00:05,	5.55it/s]				
456/499	0.206G	0.02612	0.008252	0.02659	2	320:
22% ##2	9/40 [00:01<00:05,	5.55it/s]				
456/499	0.206G	0.02612	0.008252	0.02659	2	320:
25% ##5	10/40 [00:01<00:05,	5.48it/s]				
456/499	0.206G	0.02703	0.008351	0.02687	2	320:
25% ##5	10/40 [00:02<00:05,	5.48it/s]				
456/499	0.206G	0.02703	0.008351	0.02687	2	320:
28% ##7	11/40 [00:02<00:05,	5.28it/s]				
456/499	0.206G	0.02584	0.007999	0.02618	1	320:
28% ##7	11/40 [00:02<00:05,	5.28it/s]				
456/499	0.206G	0.02584	0.007999	0.02618	1	320:
30% ###	12/40 [00:02<00:05,	5.43it/s]				
456/499	0.206G	0.02477	0.007925	0.02572	2	320:
30% ###	12/40 [00:02<00:05,	5.43it/s]				
456/499	0.206G	0.02477	0.007925	0.02572	2	320:
32% ###2	13/40 [00:02<00:04,	5.69it/s]				
456/499	0.206G	0.02468	0.007856	0.02508	2	320:
32% ###2	13/40 [00:02<00:04,	5.69it/s]				
456/499	0.206G	0.02468	0.007856	0.02508	2	320:
35% ###5	14/40 [00:02<00:04,	5.67it/s]				
456/499	0.206G	0.02553	0.007823	0.02492	2	320:
35% ###5	14/40 [00:02<00:04,	5.67it/s]				
456/499	0.206G	0.02553	0.007823	0.02492	2	320:
38% ###7	15/40 [00:02<00:04,	5.77it/s]				
456/499	0.206G	0.02497	0.00778	0.02413	2	320:
38% ###7	15/40 [00:02<00:04,	5.77it/s]				
456/499	0.206G	0.02497	0.00778	0.02413	2	320:
40% ####	16/40 [00:02<00:04,	5.78it/s]				
456/499	0.206G	0.02463	0.007845	0.02497	2	320:
40% ####	16/40 [00:03<00:04,	5.78it/s]				
456/499	0.206G	0.02463	0.007845	0.02497	2	320:
42% ####2	17/40 [00:03<00:04,	5.60it/s]				
456/499	0.206G	0.02479	0.008453	0.02465	4	320:
42% ####2	17/40 [00:03<00:04,	5.60it/s]				
456/499	0.206G	0.02479	0.008453	0.02465	4	320:
45% ####5	18/40 [00:03<00:03,	5.54it/s]				

456/499	0.206G	0.02431	0.008283	0.02419	2	320:
45% #####5	18/40 [00:03<00:03,	5.54it/s]				
456/499	0.206G	0.02431	0.008283	0.02419	2	320:
48% #####7	19/40 [00:03<00:03,	5.77it/s]				
456/499	0.206G	0.024	0.008188	0.02378	2	320:
48% #####7	19/40 [00:03<00:03,	5.77it/s]				
456/499	0.206G	0.024	0.008188	0.02378	2	320:
50% #####	20/40 [00:03<00:03,	5.47it/s]				
456/499	0.206G	0.02412	0.008212	0.02464	2	320:
50% #####	20/40 [00:03<00:03,	5.47it/s]				
456/499	0.206G	0.02412	0.008212	0.02464	2	320:
52% #####2	21/40 [00:03<00:03,	5.57it/s]				
456/499	0.206G	0.02494	0.008194	0.02419	2	320:
52% #####2	21/40 [00:03<00:03,	5.57it/s]				
456/499	0.206G	0.02494	0.008194	0.02419	2	320:
55% #####5	22/40 [00:03<00:03,	5.47it/s]				
456/499	0.206G	0.02419	0.008219	0.02373	2	320:
55% #####5	22/40 [00:04<00:03,	5.47it/s]				
456/499	0.206G	0.02419	0.008219	0.02373	2	320:
57% #####7	23/40 [00:04<00:03,	5.43it/s]				
456/499	0.206G	0.02391	0.008056	0.02349	1	320:
57% #####7	23/40 [00:04<00:03,	5.43it/s]				
456/499	0.206G	0.02391	0.008056	0.02349	1	320:
60% #####	24/40 [00:04<00:02,	5.40it/s]				
456/499	0.206G	0.02503	0.008097	0.02322	2	320:
60% #####	24/40 [00:04<00:02,	5.40it/s]				
456/499	0.206G	0.02503	0.008097	0.02322	2	320:
62% #####2	25/40 [00:04<00:02,	5.52it/s]				
456/499	0.206G	0.02492	0.008411	0.02329	4	320:
62% #####2	25/40 [00:04<00:02,	5.52it/s]				
456/499	0.206G	0.02492	0.008411	0.02329	4	320:
65% #####5	26/40 [00:04<00:02,	5.46it/s]				
456/499	0.206G	0.02488	0.008547	0.02327	3	320:
65% #####5	26/40 [00:04<00:02,	5.46it/s]				
456/499	0.206G	0.02488	0.008547	0.02327	3	320:
68% #####7	27/40 [00:04<00:02,	5.56it/s]				
456/499	0.206G	0.02451	0.008368	0.02319	1	320:
68% #####7	27/40 [00:05<00:02,	5.56it/s]				
456/499	0.206G	0.02451	0.008368	0.02319	1	320:
70% #####	28/40 [00:05<00:02,	5.64it/s]				
456/499	0.206G	0.02417	0.008492	0.02313	4	320:
70% #####	28/40 [00:05<00:02,	5.64it/s]				
456/499	0.206G	0.02417	0.008492	0.02313	4	320:
72% #####2	29/40 [00:05<00:01,	5.67it/s]				
456/499	0.206G	0.02437	0.008442	0.02295	2	320:
72% #####2	29/40 [00:05<00:01,	5.67it/s]				
456/499	0.206G	0.02437	0.008442	0.02295	2	320:
75% #####5	30/40 [00:05<00:01,	5.56it/s]				

456/499	0.206G	0.02413	0.008403	0.0227	2	320:
75% #####5	30/40 [00:05<00:01,	5.56it/s]				
456/499	0.206G	0.02413	0.008403	0.0227	2	320:
78% #####7	31/40 [00:05<00:01,	5.64it/s]				
456/499	0.206G	0.02391	0.008606	0.02263	4	320:
78% #####7	31/40 [00:05<00:01,	5.64it/s]				
456/499	0.206G	0.02391	0.008606	0.02263	4	320:
80% #####	32/40 [00:05<00:01,	5.52it/s]				
456/499	0.206G	0.02349	0.008497	0.02228	2	320:
80% #####	32/40 [00:05<00:01,	5.52it/s]				
456/499	0.206G	0.02349	0.008497	0.02228	2	320:
82% #####2	33/40 [00:05<00:01,	5.76it/s]				
456/499	0.206G	0.02314	0.008502	0.02208	4	320:
82% #####2	33/40 [00:06<00:01,	5.76it/s]				
456/499	0.206G	0.02314	0.008502	0.02208	4	320:
85% #####5	34/40 [00:06<00:01,	5.77it/s]				
456/499	0.206G	0.02342	0.008544	0.02192	2	320:
85% #####5	34/40 [00:06<00:01,	5.77it/s]				
456/499	0.206G	0.02342	0.008544	0.02192	2	320:
88% #####7	35/40 [00:06<00:00,	5.62it/s]				
456/499	0.206G	0.02311	0.008546	0.02175	2	320:
88% #####7	35/40 [00:06<00:00,	5.62it/s]				
456/499	0.206G	0.02311	0.008546	0.02175	2	320:
90% #####	36/40 [00:06<00:00,	5.68it/s]				
456/499	0.206G	0.02329	0.008503	0.02154	2	320:
90% #####	36/40 [00:06<00:00,	5.68it/s]				
456/499	0.206G	0.02329	0.008503	0.02154	2	320:
92% #####2	37/40 [00:06<00:00,	5.57it/s]				
456/499	0.206G	0.02295	0.008353	0.02165	1	320:
92% #####2	37/40 [00:06<00:00,	5.57it/s]				
456/499	0.206G	0.02295	0.008353	0.02165	1	320:
95% #####5	38/40 [00:06<00:00,	5.62it/s]				
456/499	0.206G	0.02355	0.008514	0.02169	4	320:
95% #####5	38/40 [00:06<00:00,	5.62it/s]				
456/499	0.206G	0.02355	0.008514	0.02169	4	320:
98% #####7	39/40 [00:06<00:00,	5.67it/s]				
456/499	0.206G	0.02338	0.008502	0.02166	2	320:
98% #####7	39/40 [00:07<00:00,	5.67it/s]				
456/499	0.206G	0.02338	0.008502	0.02166	2	320:
100% #####	40/40 [00:07<00:00,	5.29it/s]				
456/499	0.206G	0.02338	0.008502	0.02166	2	320:
100% #####	40/40 [00:07<00:00,	5.55it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:01,	14.05it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:01, 15.09it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 14.71it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 15.19it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 13.63it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 13.33it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 14.08it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:01<00:00, 13.64it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 14.30it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 14.78it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 14.33it/s]					
	all	40	40	0.965	0.964	0.988	
0.783							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
457/499	0.206G	0.007889	0.002607	0.0124	1	320:
0%	0/40 [00:00<?, ?it/s]					
457/499	0.206G	0.007889	0.002607	0.0124	1	320:
2% 2	1/40 [00:00<00:07, 5.33it/s]					
457/499	0.206G	0.01226	0.003487	0.0132	1	320:
2% 2	1/40 [00:00<00:07, 5.33it/s]					
457/499	0.206G	0.01226	0.003487	0.0132	1	320:
5% 5	2/40 [00:00<00:07, 5.18it/s]					
457/499	0.206G	0.01244	0.00423	0.01398	2	320:
5% 5	2/40 [00:00<00:07, 5.18it/s]					
457/499	0.206G	0.01244	0.00423	0.01398	2	320:
8% 7	3/40 [00:00<00:07, 5.16it/s]					
457/499	0.206G	0.01301	0.005037	0.01437	2	320:
8% 7	3/40 [00:00<00:07, 5.16it/s]					
457/499	0.206G	0.01301	0.005037	0.01437	2	320:
10% #	4/40 [00:00<00:06, 5.23it/s]					
457/499	0.206G	0.01696	0.007175	0.01632	4	320:
10% #	4/40 [00:00<00:06, 5.23it/s]					
457/499	0.206G	0.01696	0.007175	0.01632	4	320:
12% #2	5/40 [00:00<00:06, 5.24it/s]					
457/499	0.206G	0.01576	0.006545	0.01636	1	320:
12% #2	5/40 [00:01<00:06, 5.24it/s]					
457/499	0.206G	0.01576	0.006545	0.01636	1	320:

15% #5	6/40 [00:01<00:06,	5.42it/s]				
457/499	0.206G	0.01628	0.00723	0.01653	4	320:
15% #5	6/40 [00:01<00:06,	5.42it/s]				
457/499	0.206G	0.01628	0.00723	0.01653	4	320:
18% #7	7/40 [00:01<00:06,	5.39it/s]				
457/499	0.206G	0.01548	0.006922	0.01681	1	320:
18% #7	7/40 [00:01<00:06,	5.39it/s]				
457/499	0.206G	0.01548	0.006922	0.01681	1	320:
20% ##	8/40 [00:01<00:05,	5.36it/s]				
457/499	0.206G	0.01483	0.00672	0.0164	1	320:
20% ##	8/40 [00:01<00:05,	5.36it/s]				
457/499	0.206G	0.01483	0.00672	0.0164	1	320:
22% ##2	9/40 [00:01<00:05,	5.65it/s]				
457/499	0.206G	0.01411	0.006521	0.01594	1	320:
22% ##2	9/40 [00:01<00:05,	5.65it/s]				
457/499	0.206G	0.01411	0.006521	0.01594	1	320:
25% ##5	10/40 [00:01<00:05,	5.55it/s]				
457/499	0.206G	0.01476	0.007168	0.01662	4	320:
25% ##5	10/40 [00:02<00:05,	5.55it/s]				
457/499	0.206G	0.01476	0.007168	0.01662	4	320:
28% ##7	11/40 [00:02<00:05,	5.32it/s]				
457/499	0.206G	0.015	0.007354	0.01647	2	320:
28% ##7	11/40 [00:02<00:05,	5.32it/s]				
457/499	0.206G	0.015	0.007354	0.01647	2	320:
30% ###	12/40 [00:02<00:05,	5.46it/s]				
457/499	0.206G	0.01753	0.00748	0.01676	2	320:
30% ###	12/40 [00:02<00:05,	5.46it/s]				
457/499	0.206G	0.01753	0.00748	0.01676	2	320:
32% ###2	13/40 [00:02<00:04,	5.42it/s]				
457/499	0.206G	0.01721	0.007327	0.01651	1	320:
32% ###2	13/40 [00:02<00:04,	5.42it/s]				
457/499	0.206G	0.01721	0.007327	0.01651	1	320:
35% ###5	14/40 [00:02<00:04,	5.52it/s]				
457/499	0.206G	0.01654	0.00723	0.01666	1	320:
35% ###5	14/40 [00:02<00:04,	5.52it/s]				
457/499	0.206G	0.01654	0.00723	0.01666	1	320:
38% ###7	15/40 [00:02<00:04,	5.46it/s]				
457/499	0.206G	0.01879	0.007482	0.01693	4	320:
38% ###7	15/40 [00:02<00:04,	5.46it/s]				
457/499	0.206G	0.01879	0.007482	0.01693	4	320:
40% ####	16/40 [00:02<00:04,	5.42it/s]				
457/499	0.206G	0.01828	0.007457	0.01696	2	320:
40% ####	16/40 [00:03<00:04,	5.42it/s]				
457/499	0.206G	0.01828	0.007457	0.01696	2	320:
42% ####2	17/40 [00:03<00:04,	5.52it/s]				
457/499	0.206G	0.01826	0.007343	0.01678	1	320:
42% ####2	17/40 [00:03<00:04,	5.52it/s]				
457/499	0.206G	0.01826	0.007343	0.01678	1	320:

45% #####5	18/40 [00:03<00:03, 5.60it/s]					
457/499	0.206G 0.01775 0.007108 0.01684	1	320:			
45% #####5	18/40 [00:03<00:03, 5.60it/s]					
457/499	0.206G 0.01775 0.007108 0.01684	1	320:			
48% #####7	19/40 [00:03<00:03, 5.67it/s]					
457/499	0.206G 0.01784 0.006994 0.01685	2	320:			
48% #####7	19/40 [00:03<00:03, 5.67it/s]					
457/499	0.206G 0.01784 0.006994 0.01685	2	320:			
50% #####	20/40 [00:03<00:03, 5.69it/s]					
457/499	0.206G 0.01795 0.007566 0.01713	4	320:			
50% #####	20/40 [00:03<00:03, 5.69it/s]					
457/499	0.206G 0.01795 0.007566 0.01713	4	320:			
52% #####2	21/40 [00:03<00:03, 5.58it/s]					
457/499	0.206G 0.01828 0.007533 0.01712	2	320:			
52% #####2	21/40 [00:03<00:03, 5.58it/s]					
457/499	0.206G 0.01828 0.007533 0.01712	2	320:			
55% #####5	22/40 [00:03<00:03, 5.80it/s]					
457/499	0.206G 0.01812 0.007664 0.01712	2	320:			
55% #####5	22/40 [00:04<00:03, 5.80it/s]					
457/499	0.206G 0.01812 0.007664 0.01712	2	320:			
57% #####7	23/40 [00:04<00:03, 5.65it/s]					
457/499	0.206G 0.01823 0.008273 0.01713	4	320:			
57% #####7	23/40 [00:04<00:03, 5.65it/s]					
457/499	0.206G 0.01823 0.008273 0.01713	4	320:			
60% #####	24/40 [00:04<00:02, 5.70it/s]					
457/499	0.206G 0.01845 0.008292 0.01734	3	320:			
60% #####	24/40 [00:04<00:02, 5.70it/s]					
457/499	0.206G 0.01845 0.008292 0.01734	3	320:			
62% #####2	25/40 [00:04<00:02, 5.73it/s]					
457/499	0.206G 0.01905 0.008342 0.01761	3	320:			
62% #####2	25/40 [00:04<00:02, 5.73it/s]					
457/499	0.206G 0.01905 0.008342 0.01761	3	320:			
65% #####5	26/40 [00:04<00:02, 5.59it/s]					
457/499	0.206G 0.0192 0.008564 0.01787	4	320:			
65% #####5	26/40 [00:04<00:02, 5.59it/s]					
457/499	0.206G 0.0192 0.008564 0.01787	4	320:			
68% #####7	27/40 [00:04<00:02, 5.51it/s]					
457/499	0.206G 0.01964 0.008923 0.01833	4	320:			
68% #####7	27/40 [00:05<00:02, 5.51it/s]					
457/499	0.206G 0.01964 0.008923 0.01833	4	320:			
70% #####	28/40 [00:05<00:02, 5.29it/s]					
457/499	0.206G 0.02031 0.008857 0.01943	2	320:			
70% #####	28/40 [00:05<00:02, 5.29it/s]					
457/499	0.206G 0.02031 0.008857 0.01943	2	320:			
72% #####2	29/40 [00:05<00:02, 5.19it/s]					
457/499	0.206G 0.02056 0.008828 0.0202	2	320:			
72% #####2	29/40 [00:05<00:02, 5.19it/s]					
457/499	0.206G 0.02056 0.008828 0.0202	2	320:			

75% #####5		30/40	[00:05<00:01,	5.36it/s]			
457/499		0.206G	0.02036	0.008689	0.02005	1	320:
75% #####5		30/40	[00:05<00:01,	5.36it/s]			
457/499		0.206G	0.02036	0.008689	0.02005	1	320:
78% #####7		31/40	[00:05<00:01,	5.39it/s]			
457/499		0.206G	0.0203	0.008562	0.02004	1	320:
78% #####7		31/40	[00:05<00:01,	5.39it/s]			
457/499		0.206G	0.0203	0.008562	0.02004	1	320:
80% #####		32/40	[00:05<00:01,	5.59it/s]			
457/499		0.206G	0.02082	0.008495	0.01994	2	320:
80% #####		32/40	[00:06<00:01,	5.59it/s]			
457/499		0.206G	0.02082	0.008495	0.01994	2	320:
82% #####2		33/40	[00:06<00:01,	5.51it/s]			
457/499		0.206G	0.0217	0.008517	0.02011	2	320:
82% #####2		33/40	[00:06<00:01,	5.51it/s]			
457/499		0.206G	0.0217	0.008517	0.02011	2	320:
85% #####5		34/40	[00:06<00:01,	5.47it/s]			
457/499		0.206G	0.02132	0.008367	0.0199	1	320:
85% #####5		34/40	[00:06<00:01,	5.47it/s]			
457/499		0.206G	0.02132	0.008367	0.0199	1	320:
88% #####7		35/40	[00:06<00:00,	5.56it/s]			
457/499		0.206G	0.02119	0.008289	0.01971	2	320:
88% #####7		35/40	[00:06<00:00,	5.56it/s]			
457/499		0.206G	0.02119	0.008289	0.01971	2	320:
90% #####		36/40	[00:06<00:00,	5.79it/s]			
457/499		0.206G	0.02088	0.00814	0.01961	1	320:
90% #####		36/40	[00:06<00:00,	5.79it/s]			
457/499		0.206G	0.02088	0.00814	0.01961	1	320:
92% #####2		37/40	[00:06<00:00,	5.67it/s]			
457/499		0.206G	0.02082	0.008321	0.01958	4	320:
92% #####2		37/40	[00:06<00:00,	5.67it/s]			
457/499		0.206G	0.02082	0.008321	0.01958	4	320:
95% #####5		38/40	[00:06<00:00,	5.52it/s]			
457/499		0.206G	0.02096	0.008574	0.01952	4	320:
95% #####5		38/40	[00:07<00:00,	5.52it/s]			
457/499		0.206G	0.02096	0.008574	0.01952	4	320:
98% #####7		39/40	[00:07<00:00,	5.47it/s]			
457/499		0.206G	0.02097	0.008508	0.01942	2	320:
98% #####7		39/40	[00:07<00:00,	5.47it/s]			
457/499		0.206G	0.02097	0.008508	0.01942	2	320:
100% #####		40/40	[00:07<00:00,	5.40it/s]			
457/499		0.206G	0.02097	0.008508	0.01942	2	320:
100% #####		40/40	[00:07<00:00,	5.49it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:01, 16.00it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00,	17.27it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	17.72it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	17.93it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.29it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	15.52it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	15/20	[00:00<00:00,	16.89it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20	[00:01<00:00,	16.49it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20	[00:01<00:00,	15.80it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.56it/s]		
	all	40	40	0.965	0.975	0.991

0.809

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
458/499	0.206G	0.02129	0.01477	0.01653	4	320:
0%	0/40	[00:00<?, ?it/s]				
458/499	0.206G	0.02129	0.01477	0.01653	4	320:
2% 2	1/40	[00:00<00:06,	5.73it/s]			
458/499	0.206G	0.02126	0.00917	0.01528	1	320:
2% 2	1/40	[00:00<00:06,	5.73it/s]			
458/499	0.206G	0.02126	0.00917	0.01528	1	320:
5% 5	2/40	[00:00<00:06,	5.78it/s]			
458/499	0.206G	0.02035	0.01161	0.01571	4	320:
5% 5	2/40	[00:00<00:06,	5.78it/s]			
458/499	0.206G	0.02035	0.01161	0.01571	4	320:
8% 7	3/40	[00:00<00:06,	5.36it/s]			
458/499	0.206G	0.02109	0.01283	0.01717	4	320:
8% 7	3/40	[00:00<00:06,	5.36it/s]			
458/499	0.206G	0.02109	0.01283	0.01717	4	320:
10% #	4/40	[00:00<00:06,	5.51it/s]			
458/499	0.206G	0.01875	0.01102	0.01636	1	320:
10% #	4/40	[00:00<00:06,	5.51it/s]			
458/499	0.206G	0.01875	0.01102	0.01636	1	320:
12% #2	5/40	[00:00<00:06,	5.62it/s]			
458/499	0.206G	0.01941	0.009805	0.01666	1	320:
12% #2	5/40	[00:01<00:06,	5.62it/s]			
458/499	0.206G	0.01941	0.009805	0.01666	1	320:
15% #5	6/40	[00:01<00:05,	5.69it/s]			

458/499	0.206G	0.01865	0.009246	0.01661	2	320:
15% #5	6/40 [00:01<00:05,	5.69it/s]				
458/499	0.206G	0.01865	0.009246	0.01661	2	320:
18% #7	7/40 [00:01<00:05,	5.88it/s]				
458/499	0.206G	0.01832	0.008567	0.01644	1	320:
18% #7	7/40 [00:01<00:05,	5.88it/s]				
458/499	0.206G	0.01832	0.008567	0.01644	1	320:
20% ##	8/40 [00:01<00:05,	5.86it/s]				
458/499	0.206G	0.01705	0.007962	0.01616	1	320:
20% ##	8/40 [00:01<00:05,	5.86it/s]				
458/499	0.206G	0.01705	0.007962	0.01616	1	320:
22% ##2	9/40 [00:01<00:05,	6.02it/s]				
458/499	0.206G	0.01662	0.00777	0.01622	2	320:
22% ##2	9/40 [00:01<00:05,	6.02it/s]				
458/499	0.206G	0.01662	0.00777	0.01622	2	320:
25% ##5	10/40 [00:01<00:05,	5.93it/s]				
458/499	0.206G	0.01639	0.007558	0.01642	1	320:
25% ##5	10/40 [00:01<00:05,	5.93it/s]				
458/499	0.206G	0.01639	0.007558	0.01642	1	320:
28% ##7	11/40 [00:01<00:04,	5.90it/s]				
458/499	0.206G	0.01586	0.007206	0.01687	1	320:
28% ##7	11/40 [00:02<00:04,	5.90it/s]				
458/499	0.206G	0.01586	0.007206	0.01687	1	320:
30% ###	12/40 [00:02<00:04,	5.87it/s]				
458/499	0.206G	0.01599	0.006991	0.01637	1	320:
30% ###	12/40 [00:02<00:04,	5.87it/s]				
458/499	0.206G	0.01599	0.006991	0.01637	1	320:
32% ###2	13/40 [00:02<00:04,	5.82it/s]				
458/499	0.206G	0.01574	0.006791	0.01705	1	320:
32% ###2	13/40 [00:02<00:04,	5.82it/s]				
458/499	0.206G	0.01574	0.006791	0.01705	1	320:
35% ###5	14/40 [00:02<00:04,	5.82it/s]				
458/499	0.206G	0.01531	0.006537	0.01684	1	320:
35% ###5	14/40 [00:02<00:04,	5.82it/s]				
458/499	0.206G	0.01531	0.006537	0.01684	1	320:
38% ###7	15/40 [00:02<00:04,	5.98it/s]				
458/499	0.206G	0.01547	0.006591	0.01686	2	320:
38% ###7	15/40 [00:02<00:04,	5.98it/s]				
458/499	0.206G	0.01547	0.006591	0.01686	2	320:
40% ####	16/40 [00:02<00:04,	5.78it/s]				
458/499	0.206G	0.01764	0.006668	0.01695	2	320:
40% ####	16/40 [00:02<00:04,	5.78it/s]				
458/499	0.206G	0.01764	0.006668	0.01695	2	320:
42% ####2	17/40 [00:02<00:04,	5.64it/s]				
458/499	0.206G	0.0186	0.007202	0.01778	4	320:
42% ####2	17/40 [00:03<00:04,	5.64it/s]				
458/499	0.206G	0.0186	0.007202	0.01778	4	320:
45% ####5	18/40 [00:03<00:04,	5.38it/s]				

458/499	0.206G	0.01826	0.007145	0.01785	2	320:
45% #####5	18/40 [00:03<00:04,	5.38it/s]				
458/499	0.206G	0.01826	0.007145	0.01785	2	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
458/499	0.206G	0.01856	0.007495	0.01774	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
458/499	0.206G	0.01856	0.007495	0.01774	4	320:
50% #####	20/40 [00:03<00:03,	5.32it/s]				
458/499	0.206G	0.01802	0.00728	0.01751	1	320:
50% #####	20/40 [00:03<00:03,	5.32it/s]				
458/499	0.206G	0.01802	0.00728	0.01751	1	320:
52% #####2	21/40 [00:03<00:03,	5.40it/s]				
458/499	0.206G	0.01758	0.007156	0.0173	1	320:
52% #####2	21/40 [00:03<00:03,	5.40it/s]				
458/499	0.206G	0.01758	0.007156	0.0173	1	320:
55% #####5	22/40 [00:03<00:03,	5.55it/s]				
458/499	0.206G	0.01749	0.00712	0.01742	2	320:
55% #####5	22/40 [00:04<00:03,	5.55it/s]				
458/499	0.206G	0.01749	0.00712	0.01742	2	320:
57% #####7	23/40 [00:04<00:03,	5.63it/s]				
458/499	0.206G	0.01837	0.007361	0.01746	4	320:
57% #####7	23/40 [00:04<00:03,	5.63it/s]				
458/499	0.206G	0.01837	0.007361	0.01746	4	320:
60% #####	24/40 [00:04<00:02,	5.50it/s]				
458/499	0.206G	0.01872	0.007616	0.01774	4	320:
60% #####	24/40 [00:04<00:02,	5.50it/s]				
458/499	0.206G	0.01872	0.007616	0.01774	4	320:
62% #####2	25/40 [00:04<00:02,	5.62it/s]				
458/499	0.206G	0.01827	0.007411	0.01752	1	320:
62% #####2	25/40 [00:04<00:02,	5.62it/s]				
458/499	0.206G	0.01827	0.007411	0.01752	1	320:
65% #####5	26/40 [00:04<00:02,	5.53it/s]				
458/499	0.206G	0.01821	0.007398	0.01765	2	320:
65% #####5	26/40 [00:04<00:02,	5.53it/s]				
458/499	0.206G	0.01821	0.007398	0.01765	2	320:
68% #####7	27/40 [00:04<00:02,	5.56it/s]				
458/499	0.206G	0.01836	0.007564	0.01797	3	320:
68% #####7	27/40 [00:04<00:02,	5.56it/s]				
458/499	0.206G	0.01836	0.007564	0.01797	3	320:
70% #####	28/40 [00:04<00:02,	5.39it/s]				
458/499	0.206G	0.01838	0.007823	0.01814	4	320:
70% #####	28/40 [00:05<00:02,	5.39it/s]				
458/499	0.206G	0.01838	0.007823	0.01814	4	320:
72% #####2	29/40 [00:05<00:02,	5.24it/s]				
458/499	0.206G	0.01904	0.007829	0.01813	2	320:
72% #####2	29/40 [00:05<00:02,	5.24it/s]				
458/499	0.206G	0.01904	0.007829	0.01813	2	320:
75% #####5	30/40 [00:05<00:01,	5.12it/s]				

458/499	0.206G	0.01902	0.008069	0.0181	4	320:
75% #####5	30/40 [00:05<00:01,	5.12it/s]				
458/499	0.206G	0.01902	0.008069	0.0181	4	320:
78% #####7	31/40 [00:05<00:01,	5.06it/s]				
458/499	0.206G	0.01895	0.008322	0.01813	4	320:
78% #####7	31/40 [00:05<00:01,	5.06it/s]				
458/499	0.206G	0.01895	0.008322	0.01813	4	320:
80% #####	32/40 [00:05<00:01,	4.89it/s]				
458/499	0.206G	0.01913	0.008596	0.01836	4	320:
80% #####	32/40 [00:06<00:01,	4.89it/s]				
458/499	0.206G	0.01913	0.008596	0.01836	4	320:
82% #####2	33/40 [00:06<00:01,	4.80it/s]				
458/499	0.206G	0.01891	0.008537	0.0183	2	320:
82% #####2	33/40 [00:06<00:01,	4.80it/s]				
458/499	0.206G	0.01891	0.008537	0.0183	2	320:
85% #####5	34/40 [00:06<00:01,	4.95it/s]				
458/499	0.206G	0.01874	0.008497	0.01835	2	320:
85% #####5	34/40 [00:06<00:01,	4.95it/s]				
458/499	0.206G	0.01874	0.008497	0.01835	2	320:
88% #####7	35/40 [00:06<00:01,	4.92it/s]				
458/499	0.206G	0.01859	0.008378	0.01829	1	320:
88% #####7	35/40 [00:06<00:01,	4.92it/s]				
458/499	0.206G	0.01859	0.008378	0.01829	1	320:
90% #####	36/40 [00:06<00:00,	4.92it/s]				
458/499	0.206G	0.01903	0.008357	0.01822	2	320:
90% #####	36/40 [00:06<00:00,	4.92it/s]				
458/499	0.206G	0.01903	0.008357	0.01822	2	320:
92% #####2	37/40 [00:06<00:00,	4.79it/s]				
458/499	0.206G	0.01873	0.008197	0.01813	1	320:
92% #####2	37/40 [00:07<00:00,	4.79it/s]				
458/499	0.206G	0.01873	0.008197	0.01813	1	320:
95% #####5	38/40 [00:07<00:00,	4.95it/s]				
458/499	0.206G	0.01928	0.00816	0.01819	2	320:
95% #####5	38/40 [00:07<00:00,	4.95it/s]				
458/499	0.206G	0.01928	0.00816	0.01819	2	320:
98% #####7	39/40 [00:07<00:00,	4.83it/s]				
458/499	0.206G	0.01961	0.008128	0.01808	2	320:
98% #####7	39/40 [00:07<00:00,	4.83it/s]				
458/499	0.206G	0.01961	0.008128	0.01808	2	320:
100% #####	40/40 [00:07<00:00,	4.63it/s]				
458/499	0.206G	0.01961	0.008128	0.01808	2	320:
100% #####	40/40 [00:07<00:00,	5.35it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:00,	18.29it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:01, 15.65it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 15.81it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 15.78it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 15.18it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 15.44it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 15.59it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:01<00:00, 16.36it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 16.90it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.61it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.16it/s]					
	all	40	40	0.965	0.975	0.991	
0.809							

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
459/499	0.206G	0.02312	0.01527	0.03134	4	320:	
0%		0/40 [00:00<?, ?it/s]					
459/499	0.206G	0.02312	0.01527	0.03134	4	320:	
2% 2		1/40 [00:00<00:06, 5.82it/s]					
459/499	0.206G	0.04007	0.0108	0.0361	2	320:	
2% 2		1/40 [00:00<00:06, 5.82it/s]					
459/499	0.206G	0.04007	0.0108	0.0361	2	320:	
5% 5		2/40 [00:00<00:06, 5.52it/s]					
459/499	0.206G	0.02946	0.009432	0.02818	2	320:	
5% 5		2/40 [00:00<00:06, 5.52it/s]					
459/499	0.206G	0.02946	0.009432	0.02818	2	320:	
8% 7		3/40 [00:00<00:06, 5.68it/s]					
459/499	0.206G	0.02462	0.008914	0.02575	2	320:	
8% 7		3/40 [00:00<00:06, 5.68it/s]					
459/499	0.206G	0.02462	0.008914	0.02575	2	320:	
10% #		4/40 [00:00<00:06, 5.91it/s]					
459/499	0.206G	0.02668	0.008979	0.02426	3	320:	
10% #		4/40 [00:00<00:06, 5.91it/s]					
459/499	0.206G	0.02668	0.008979	0.02426	3	320:	
12% #2		5/40 [00:00<00:06, 5.69it/s]					
459/499	0.206G	0.02802	0.01003	0.02377	4	320:	
12% #2		5/40 [00:01<00:06, 5.69it/s]					
459/499	0.206G	0.02802	0.01003	0.02377	4	320:	

15% #5	6/40 [00:01<00:06,	5.54it/s]				
459/499	0.206G	0.02722	0.01232	0.02404	4	320:
15% #5	6/40 [00:01<00:06,	5.54it/s]				
459/499	0.206G	0.02722	0.01232	0.02404	4	320:
18% #7	7/40 [00:01<00:06,	5.47it/s]				
459/499	0.206G	0.03002	0.01179	0.02321	2	320:
18% #7	7/40 [00:01<00:06,	5.47it/s]				
459/499	0.206G	0.03002	0.01179	0.02321	2	320:
20% ##	8/40 [00:01<00:05,	5.57it/s]				
459/499	0.206G	0.02889	0.01093	0.02207	1	320:
20% ##	8/40 [00:01<00:05,	5.57it/s]				
459/499	0.206G	0.02889	0.01093	0.02207	1	320:
22% ##2	9/40 [00:01<00:05,	5.65it/s]				
459/499	0.206G	0.02835	0.01141	0.02256	4	320:
22% ##2	9/40 [00:01<00:05,	5.65it/s]				
459/499	0.206G	0.02835	0.01141	0.02256	4	320:
25% ##5	10/40 [00:01<00:05,	5.55it/s]				
459/499	0.206G	0.03021	0.01103	0.02231	2	320:
25% ##5	10/40 [00:01<00:05,	5.55it/s]				
459/499	0.206G	0.03021	0.01103	0.02231	2	320:
28% ##7	11/40 [00:01<00:05,	5.48it/s]				
459/499	0.206G	0.02963	0.01116	0.02232	4	320:
28% ##7	11/40 [00:02<00:05,	5.48it/s]				
459/499	0.206G	0.02963	0.01116	0.02232	4	320:
30% ###	12/40 [00:02<00:05,	5.28it/s]				
459/499	0.206G	0.02902	0.0109	0.02245	3	320:
30% ###	12/40 [00:02<00:05,	5.28it/s]				
459/499	0.206G	0.02902	0.0109	0.02245	3	320:
32% ###2	13/40 [00:02<00:05,	5.17it/s]				
459/499	0.206G	0.0278	0.01079	0.02254	3	320:
32% ###2	13/40 [00:02<00:05,	5.17it/s]				
459/499	0.206G	0.0278	0.01079	0.02254	3	320:
35% ###5	14/40 [00:02<00:05,	5.09it/s]				
459/499	0.206G	0.02709	0.01041	0.02208	2	320:
35% ###5	14/40 [00:02<00:05,	5.09it/s]				
459/499	0.206G	0.02709	0.01041	0.02208	2	320:
38% ###7	15/40 [00:02<00:04,	5.27it/s]				
459/499	0.206G	0.02595	0.01018	0.02204	1	320:
38% ###7	15/40 [00:02<00:04,	5.27it/s]				
459/499	0.206G	0.02595	0.01018	0.02204	1	320:
40% ####	16/40 [00:02<00:04,	5.28it/s]				
459/499	0.206G	0.02529	0.01025	0.02181	4	320:
40% ####	16/40 [00:03<00:04,	5.28it/s]				
459/499	0.206G	0.02529	0.01025	0.02181	4	320:
42% ####2	17/40 [00:03<00:04,	5.28it/s]				
459/499	0.206G	0.02611	0.01002	0.02334	2	320:
42% ####2	17/40 [00:03<00:04,	5.28it/s]				
459/499	0.206G	0.02611	0.01002	0.02334	2	320:

45% #####5	18/40 [00:03<00:04, 5.30it/s]					
459/499	0.206G 0.02683 0.009851 0.02323	2	320:			
45% #####5	18/40 [00:03<00:04, 5.30it/s]					
459/499	0.206G 0.02683 0.009851 0.02323	2	320:			
48% #####7	19/40 [00:03<00:04, 5.18it/s]					
459/499	0.206G 0.02647 0.009652 0.02284	2	320:			
48% #####7	19/40 [00:03<00:04, 5.18it/s]					
459/499	0.206G 0.02647 0.009652 0.02284	2	320:			
50% #####	20/40 [00:03<00:03, 5.22it/s]					
459/499	0.206G 0.02585 0.009499 0.02243	1	320:			
50% #####	20/40 [00:03<00:03, 5.22it/s]					
459/499	0.206G 0.02585 0.009499 0.02243	1	320:			
52% #####2	21/40 [00:03<00:03, 5.51it/s]					
459/499	0.206G 0.02537 0.009267 0.02219	1	320:			
52% #####2	21/40 [00:04<00:03, 5.51it/s]					
459/499	0.206G 0.02537 0.009267 0.02219	1	320:			
55% #####5	22/40 [00:04<00:03, 5.55it/s]					
459/499	0.206G 0.0252 0.009002 0.02157	1	320:			
55% #####5	22/40 [00:04<00:03, 5.55it/s]					
459/499	0.206G 0.0252 0.009002 0.02157	1	320:			
57% #####7	23/40 [00:04<00:02, 5.67it/s]					
459/499	0.206G 0.02575 0.009284 0.02156	2	320:			
57% #####7	23/40 [00:04<00:02, 5.67it/s]					
459/499	0.206G 0.02575 0.009284 0.02156	2	320:			
60% #####	24/40 [00:04<00:02, 5.43it/s]					
459/499	0.206G 0.02631 0.009239 0.02139	2	320:			
60% #####	24/40 [00:04<00:02, 5.43it/s]					
459/499	0.206G 0.02631 0.009239 0.02139	2	320:			
62% #####2	25/40 [00:04<00:02, 5.50it/s]					
459/499	0.206G 0.0259 0.009004 0.02118	1	320:			
62% #####2	25/40 [00:04<00:02, 5.50it/s]					
459/499	0.206G 0.0259 0.009004 0.02118	1	320:			
65% #####5	26/40 [00:04<00:02, 5.47it/s]					
459/499	0.206G 0.02544 0.008856 0.02099	1	320:			
65% #####5	26/40 [00:04<00:02, 5.47it/s]					
459/499	0.206G 0.02544 0.008856 0.02099	1	320:			
68% #####7	27/40 [00:04<00:02, 5.57it/s]					
459/499	0.206G 0.02558 0.008811 0.02099	2	320:			
68% #####7	27/40 [00:05<00:02, 5.57it/s]					
459/499	0.206G 0.02558 0.008811 0.02099	2	320:			
70% #####	28/40 [00:05<00:02, 5.64it/s]					
459/499	0.206G 0.02538 0.008821 0.02132	2	320:			
70% #####	28/40 [00:05<00:02, 5.64it/s]					
459/499	0.206G 0.02538 0.008821 0.02132	2	320:			
72% #####2	29/40 [00:05<00:01, 5.52it/s]					
459/499	0.206G 0.02543 0.008792 0.02216	2	320:			
72% #####2	29/40 [00:05<00:01, 5.52it/s]					
459/499	0.206G 0.02543 0.008792 0.02216	2	320:			

75% #####5		30/40	[00:05<00:01,	5.46it/s]			
459/499		0.206G	0.02558	0.008704	0.02202	2	320:
75% #####5		30/40	[00:05<00:01,	5.46it/s]			
459/499		0.206G	0.02558	0.008704	0.02202	2	320:
78% #####7		31/40	[00:05<00:01,	5.42it/s]			
459/499		0.206G	0.02505	0.008582	0.02192	1	320:
78% #####7		31/40	[00:05<00:01,	5.42it/s]			
459/499		0.206G	0.02505	0.008582	0.02192	1	320:
80% #####		32/40	[00:05<00:01,	5.52it/s]			
459/499		0.206G	0.02573	0.008637	0.02182	3	320:
80% #####		32/40	[00:06<00:01,	5.52it/s]			
459/499		0.206G	0.02573	0.008637	0.02182	3	320:
82% #####2		33/40	[00:06<00:01,	5.46it/s]			
459/499		0.206G	0.02518	0.008501	0.02168	1	320:
82% #####2		33/40	[00:06<00:01,	5.46it/s]			
459/499		0.206G	0.02518	0.008501	0.02168	1	320:
85% #####5		34/40	[00:06<00:01,	5.71it/s]			
459/499		0.206G	0.02498	0.008643	0.02145	2	320:
85% #####5		34/40	[00:06<00:01,	5.71it/s]			
459/499		0.206G	0.02498	0.008643	0.02145	2	320:
88% #####7		35/40	[00:06<00:00,	5.43it/s]			
459/499		0.206G	0.02465	0.008655	0.02128	2	320:
88% #####7		35/40	[00:06<00:00,	5.43it/s]			
459/499		0.206G	0.02465	0.008655	0.02128	2	320:
90% #####		36/40	[00:06<00:00,	5.40it/s]			
459/499		0.206G	0.02449	0.008775	0.02122	4	320:
90% #####		36/40	[00:06<00:00,	5.40it/s]			
459/499		0.206G	0.02449	0.008775	0.02122	4	320:
92% #####2		37/40	[00:06<00:00,	5.38it/s]			
459/499		0.206G	0.02421	0.008639	0.02113	2	320:
92% #####2		37/40	[00:06<00:00,	5.38it/s]			
459/499		0.206G	0.02421	0.008639	0.02113	2	320:
95% #####5		38/40	[00:06<00:00,	5.35it/s]			
459/499		0.206G	0.02415	0.008752	0.02096	4	320:
95% #####5		38/40	[00:07<00:00,	5.35it/s]			
459/499		0.206G	0.02415	0.008752	0.02096	4	320:
98% #####7		39/40	[00:07<00:00,	5.22it/s]			
459/499		0.206G	0.02455	0.008885	0.02087	4	320:
98% #####7		39/40	[00:07<00:00,	5.22it/s]			
459/499		0.206G	0.02455	0.008885	0.02087	4	320:
100% #####		40/40	[00:07<00:00,	5.25it/s]			
459/499		0.206G	0.02455	0.008885	0.02087	4	320:
100% #####		40/40	[00:07<00:00,	5.43it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 14.10it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00,	16.29it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	14.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	13.97it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	15.55it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.39it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	15/20	[00:00<00:00,	17.46it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20	[00:01<00:00,	17.00it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.70it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.52it/s]		
	all	40	40	0.971	0.974	0.99

0.816

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
460/499	0.206G	0.05064	0.01083	0.01588	2	320:
0%	0/40	[00:00<?, ?it/s]				
460/499	0.206G	0.05064	0.01083	0.01588	2	320:
2% 2	1/40	[00:00<00:07,	5.31it/s]			
460/499	0.206G	0.03839	0.01159	0.01786	4	320:
2% 2	1/40	[00:00<00:07,	5.31it/s]			
460/499	0.206G	0.03839	0.01159	0.01786	4	320:
5% 5	2/40	[00:00<00:06,	5.60it/s]			
460/499	0.206G	0.03126	0.01176	0.01855	4	320:
5% 5	2/40	[00:00<00:06,	5.60it/s]			
460/499	0.206G	0.03126	0.01176	0.01855	4	320:
8% 7	3/40	[00:00<00:06,	5.70it/s]			
460/499	0.206G	0.02614	0.01003	0.01805	2	320:
8% 7	3/40	[00:00<00:06,	5.70it/s]			
460/499	0.206G	0.02614	0.01003	0.01805	2	320:
10% #	4/40	[00:00<00:06,	5.72it/s]			
460/499	0.206G	0.02315	0.009248	0.01942	2	320:
10% #	4/40	[00:00<00:06,	5.72it/s]			
460/499	0.206G	0.02315	0.009248	0.01942	2	320:
12% #2	5/40	[00:00<00:06,	5.75it/s]			
460/499	0.206G	0.02717	0.008895	0.02184	2	320:
12% #2	5/40	[00:01<00:06,	5.75it/s]			
460/499	0.206G	0.02717	0.008895	0.02184	2	320:
15% #5	6/40	[00:01<00:05,	5.77it/s]			

460/499	0.206G	0.02514	0.008152	0.02085	1	320:
15% #5	6/40 [00:01<00:05,	5.77it/s]				
460/499	0.206G	0.02514	0.008152	0.02085	1	320:
18% #7	7/40 [00:01<00:05,	5.78it/s]				
460/499	0.206G	0.02354	0.007668	0.02009	1	320:
18% #7	7/40 [00:01<00:05,	5.78it/s]				
460/499	0.206G	0.02354	0.007668	0.02009	1	320:
20% ##	8/40 [00:01<00:05,	5.79it/s]				
460/499	0.206G	0.02204	0.007186	0.01931	1	320:
20% ##	8/40 [00:01<00:05,	5.79it/s]				
460/499	0.206G	0.02204	0.007186	0.01931	1	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
460/499	0.206G	0.02382	0.007442	0.01917	3	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
460/499	0.206G	0.02382	0.007442	0.01917	3	320:
25% ##5	10/40 [00:01<00:05,	5.51it/s]				
460/499	0.206G	0.02279	0.007229	0.01924	1	320:
25% ##5	10/40 [00:01<00:05,	5.51it/s]				
460/499	0.206G	0.02279	0.007229	0.01924	1	320:
28% ##7	11/40 [00:01<00:05,	5.60it/s]				
460/499	0.206G	0.02224	0.007422	0.0191	4	320:
28% ##7	11/40 [00:02<00:05,	5.60it/s]				
460/499	0.206G	0.02224	0.007422	0.0191	4	320:
30% ###	12/40 [00:02<00:05,	5.52it/s]				
460/499	0.206G	0.02168	0.007708	0.01941	2	320:
30% ###	12/40 [00:02<00:05,	5.52it/s]				
460/499	0.206G	0.02168	0.007708	0.01941	2	320:
32% ###2	13/40 [00:02<00:04,	5.59it/s]				
460/499	0.206G	0.02405	0.00756	0.01938	2	320:
32% ###2	13/40 [00:02<00:04,	5.59it/s]				
460/499	0.206G	0.02405	0.00756	0.01938	2	320:
35% ###5	14/40 [00:02<00:04,	5.23it/s]				
460/499	0.206G	0.02411	0.00733	0.0191	1	320:
35% ###5	14/40 [00:02<00:04,	5.23it/s]				
460/499	0.206G	0.02411	0.00733	0.0191	1	320:
38% ###7	15/40 [00:02<00:04,	5.40it/s]				
460/499	0.206G	0.02305	0.007082	0.01859	1	320:
38% ###7	15/40 [00:02<00:04,	5.40it/s]				
460/499	0.206G	0.02305	0.007082	0.01859	1	320:
40% ####	16/40 [00:02<00:04,	5.51it/s]				
460/499	0.206G	0.02241	0.006879	0.01845	1	320:
40% ####	16/40 [00:03<00:04,	5.51it/s]				
460/499	0.206G	0.02241	0.006879	0.01845	1	320:
42% ####2	17/40 [00:03<00:04,	5.75it/s]				
460/499	0.206G	0.02219	0.007105	0.01842	2	320:
42% ####2	17/40 [00:03<00:04,	5.75it/s]				
460/499	0.206G	0.02219	0.007105	0.01842	2	320:
45% ####5	18/40 [00:03<00:03,	5.62it/s]				

460/499	0.206G	0.02298	0.007494	0.01868	4	320:
45% #####5	18/40 [00:03<00:03,	5.62it/s]				
460/499	0.206G	0.02298	0.007494	0.01868	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
460/499	0.206G	0.02294	0.007408	0.01873	1	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
460/499	0.206G	0.02294	0.007408	0.01873	1	320:
50% #####	20/40 [00:03<00:03,	5.46it/s]				
460/499	0.206G	0.02217	0.007185	0.0185	1	320:
50% #####	20/40 [00:03<00:03,	5.46it/s]				
460/499	0.206G	0.02217	0.007185	0.0185	1	320:
52% #####2	21/40 [00:03<00:03,	5.16it/s]				
460/499	0.206G	0.02163	0.007036	0.01829	1	320:
52% #####2	21/40 [00:03<00:03,	5.16it/s]				
460/499	0.206G	0.02163	0.007036	0.01829	1	320:
55% #####5	22/40 [00:03<00:03,	5.20it/s]				
460/499	0.206G	0.02129	0.00705	0.01828	2	320:
55% #####5	22/40 [00:04<00:03,	5.20it/s]				
460/499	0.206G	0.02129	0.00705	0.01828	2	320:
57% #####7	23/40 [00:04<00:03,	4.99it/s]				
460/499	0.206G	0.02074	0.006987	0.01808	2	320:
57% #####7	23/40 [00:04<00:03,	4.99it/s]				
460/499	0.206G	0.02074	0.006987	0.01808	2	320:
60% #####	24/40 [00:04<00:03,	5.08it/s]				
460/499	0.206G	0.02224	0.006947	0.01818	3	320:
60% #####	24/40 [00:04<00:03,	5.08it/s]				
460/499	0.206G	0.02224	0.006947	0.01818	3	320:
62% #####2	25/40 [00:04<00:02,	5.03it/s]				
460/499	0.206G	0.02294	0.00697	0.01884	2	320:
62% #####2	25/40 [00:04<00:02,	5.03it/s]				
460/499	0.206G	0.02294	0.00697	0.01884	2	320:
65% #####5	26/40 [00:04<00:02,	5.00it/s]				
460/499	0.206G	0.02311	0.007288	0.01902	4	320:
65% #####5	26/40 [00:05<00:02,	5.00it/s]				
460/499	0.206G	0.02311	0.007288	0.01902	4	320:
68% #####7	27/40 [00:05<00:02,	4.96it/s]				
460/499	0.206G	0.02293	0.007506	0.01914	4	320:
68% #####7	27/40 [00:05<00:02,	4.96it/s]				
460/499	0.206G	0.02293	0.007506	0.01914	4	320:
70% #####	28/40 [00:05<00:02,	4.95it/s]				
460/499	0.206G	0.02309	0.00746	0.01905	2	320:
70% #####	28/40 [00:05<00:02,	4.95it/s]				
460/499	0.206G	0.02309	0.00746	0.01905	2	320:
72% #####2	29/40 [00:05<00:02,	4.81it/s]				
460/499	0.206G	0.02248	0.007311	0.01876	1	320:
72% #####2	29/40 [00:05<00:02,	4.81it/s]				
460/499	0.206G	0.02248	0.007311	0.01876	1	320:
75% #####5	30/40 [00:05<00:02,	4.96it/s]				

460/499	0.206G	0.02355	0.007379	0.01884	4	320:
75% #####5	30/40 [00:05<00:02,	4.96it/s]				
460/499	0.206G	0.02355	0.007379	0.01884	4	320:
78% #####7	31/40 [00:05<00:01,	4.83it/s]				
460/499	0.206G	0.02348	0.007215	0.01848	1	320:
78% #####7	31/40 [00:06<00:01,	4.83it/s]				
460/499	0.206G	0.02348	0.007215	0.01848	1	320:
80% #####	32/40 [00:06<00:01,	5.08it/s]				
460/499	0.206G	0.02376	0.007148	0.01858	2	320:
80% #####	32/40 [00:06<00:01,	5.08it/s]				
460/499	0.206G	0.02376	0.007148	0.01858	2	320:
82% #####2	33/40 [00:06<00:01,	4.91it/s]				
460/499	0.206G	0.02339	0.007079	0.01849	1	320:
82% #####2	33/40 [00:06<00:01,	4.91it/s]				
460/499	0.206G	0.02339	0.007079	0.01849	1	320:
85% #####5	34/40 [00:06<00:01,	5.14it/s]				
460/499	0.206G	0.02355	0.007383	0.01859	4	320:
85% #####5	34/40 [00:06<00:01,	5.14it/s]				
460/499	0.206G	0.02355	0.007383	0.01859	4	320:
88% #####7	35/40 [00:06<00:00,	5.33it/s]				
460/499	0.206G	0.02366	0.007538	0.01855	4	320:
88% #####7	35/40 [00:06<00:00,	5.33it/s]				
460/499	0.206G	0.02366	0.007538	0.01855	4	320:
90% #####	36/40 [00:06<00:00,	4.96it/s]				
460/499	0.206G	0.02329	0.007459	0.0185	2	320:
90% #####	36/40 [00:06<00:00,	4.96it/s]				
460/499	0.206G	0.02329	0.007459	0.0185	2	320:
92% #####2	37/40 [00:06<00:00,	5.20it/s]				
460/499	0.206G	0.02334	0.007506	0.01903	2	320:
92% #####2	37/40 [00:07<00:00,	5.20it/s]				
460/499	0.206G	0.02334	0.007506	0.01903	2	320:
95% #####5	38/40 [00:07<00:00,	5.35it/s]				
460/499	0.206G	0.02307	0.00741	0.01912	1	320:
95% #####5	38/40 [00:07<00:00,	5.35it/s]				
460/499	0.206G	0.02307	0.00741	0.01912	1	320:
98% #####7	39/40 [00:07<00:00,	5.34it/s]				
460/499	0.206G	0.02374	0.007486	0.01908	2	320:
98% #####7	39/40 [00:07<00:00,	5.34it/s]				
460/499	0.206G	0.02374	0.007486	0.01908	2	320:
100% #####	40/40 [00:07<00:00,	5.46it/s]				
460/499	0.206G	0.02374	0.007486	0.01908	2	320:
100% #####	40/40 [00:07<00:00,	5.31it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:00,	18.28it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 16.87it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 17.49it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 17.77it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.84it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.99it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 18.08it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 16.64it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 17.16it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.70it/s]					
	all	40	40	0.965	0.965	0.992	
							0.812

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
461/499	0.206G	0.01904	0.006946	0.01723	2	320:	
0%		0/40 [00:00<?, ?it/s]					
461/499	0.206G	0.01904	0.006946	0.01723	2	320:	
2% 2		1/40 [00:00<00:06, 6.37it/s]					
461/499	0.206G	0.02368	0.009397	0.02054	3	320:	
2% 2		1/40 [00:00<00:06, 6.37it/s]					
461/499	0.206G	0.02368	0.009397	0.02054	3	320:	
5% 5		2/40 [00:00<00:06, 5.70it/s]					
461/499	0.206G	0.02584	0.00832	0.02087	1	320:	
5% 5		2/40 [00:00<00:06, 5.70it/s]					
461/499	0.206G	0.02584	0.00832	0.02087	1	320:	
8% 7		3/40 [00:00<00:06, 6.00it/s]					
461/499	0.206G	0.025	0.009368	0.02021	4	320:	
8% 7		3/40 [00:00<00:06, 6.00it/s]					
461/499	0.206G	0.025	0.009368	0.02021	4	320:	
10% #		4/40 [00:00<00:06, 5.72it/s]					
461/499	0.206G	0.02193	0.008834	0.01953	2	320:	
10% #		4/40 [00:00<00:06, 5.72it/s]					
461/499	0.206G	0.02193	0.008834	0.01953	2	320:	
12% #2		5/40 [00:00<00:06, 5.57it/s]					
461/499	0.206G	0.02325	0.00857	0.01897	2	320:	
12% #2		5/40 [00:01<00:06, 5.57it/s]					
461/499	0.206G	0.02325	0.00857	0.01897	2	320:	
15% #5		6/40 [00:01<00:06, 5.65it/s]					
461/499	0.206G	0.02307	0.009299	0.01989	4	320:	

15% #5	6/40 [00:01<00:06,	5.65it/s]				
461/499	0.206G	0.02307	0.009299	0.01989	4	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
461/499	0.206G	0.02289	0.0101	0.01982	4	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
461/499	0.206G	0.02289	0.0101	0.01982	4	320:
20% ##	8/40 [00:01<00:05,	5.35it/s]				
461/499	0.206G	0.02087	0.009237	0.01916	1	320:
20% ##	8/40 [00:01<00:05,	5.35it/s]				
461/499	0.206G	0.02087	0.009237	0.01916	1	320:
22% ##2	9/40 [00:01<00:05,	5.41it/s]				
461/499	0.206G	0.01878	0.008429	0.01725	0	320:
22% ##2	9/40 [00:01<00:05,	5.41it/s]				
461/499	0.206G	0.01878	0.008429	0.01725	0	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
461/499	0.206G	0.01865	0.008713	0.01794	4	320:
25% ##5	10/40 [00:01<00:05,	5.72it/s]				
461/499	0.206G	0.01865	0.008713	0.01794	4	320:
28% ##7	11/40 [00:01<00:05,	5.31it/s]				
461/499	0.206G	0.02027	0.00867	0.01866	2	320:
28% ##7	11/40 [00:02<00:05,	5.31it/s]				
461/499	0.206G	0.02027	0.00867	0.01866	2	320:
30% ###	12/40 [00:02<00:05,	5.45it/s]				
461/499	0.206G	0.02226	0.008646	0.01871	2	320:
30% ###	12/40 [00:02<00:05,	5.45it/s]				
461/499	0.206G	0.02226	0.008646	0.01871	2	320:
32% ###2	13/40 [00:02<00:05,	5.39it/s]				
461/499	0.206G	0.02206	0.009257	0.01934	4	320:
32% ###2	13/40 [00:02<00:05,	5.39it/s]				
461/499	0.206G	0.02206	0.009257	0.01934	4	320:
35% ###5	14/40 [00:02<00:04,	5.24it/s]				
461/499	0.206G	0.02166	0.00902	0.01917	2	320:
35% ###5	14/40 [00:02<00:04,	5.24it/s]				
461/499	0.206G	0.02166	0.00902	0.01917	2	320:
38% ###7	15/40 [00:02<00:04,	5.29it/s]				
461/499	0.206G	0.02082	0.008602	0.01884	1	320:
38% ###7	15/40 [00:02<00:04,	5.29it/s]				
461/499	0.206G	0.02082	0.008602	0.01884	1	320:
40% ####	16/40 [00:02<00:04,	5.55it/s]				
461/499	0.206G	0.02305	0.008446	0.02047	2	320:
40% ####	16/40 [00:03<00:04,	5.55it/s]				
461/499	0.206G	0.02305	0.008446	0.02047	2	320:
42% ####2	17/40 [00:03<00:04,	5.62it/s]				
461/499	0.206G	0.02402	0.008779	0.02074	4	320:
42% ####2	17/40 [00:03<00:04,	5.62it/s]				
461/499	0.206G	0.02402	0.008779	0.02074	4	320:
45% ####5	18/40 [00:03<00:03,	5.54it/s]				
461/499	0.206G	0.02341	0.008513	0.02023	1	320:

45% #####5	18/40 [00:03<00:03,	5.54it/s]				
461/499	0.206G	0.02341	0.008513	0.02023	1	320:
48% #####7	19/40 [00:03<00:03,	5.75it/s]				
461/499	0.206G	0.02294	0.00854	0.01991	2	320:
48% #####7	19/40 [00:03<00:03,	5.75it/s]				
461/499	0.206G	0.02294	0.00854	0.01991	2	320:
50% #####	20/40 [00:03<00:03,	5.93it/s]				
461/499	0.206G	0.02227	0.00827	0.01968	1	320:
50% #####	20/40 [00:03<00:03,	5.93it/s]				
461/499	0.206G	0.02227	0.00827	0.01968	1	320:
52% #####2	21/40 [00:03<00:03,	5.90it/s]				
461/499	0.206G	0.02211	0.008515	0.0196	4	320:
52% #####2	21/40 [00:03<00:03,	5.90it/s]				
461/499	0.206G	0.02211	0.008515	0.0196	4	320:
55% #####5	22/40 [00:03<00:03,	5.86it/s]				
461/499	0.206G	0.02167	0.008418	0.01945	1	320:
55% #####5	22/40 [00:04<00:03,	5.86it/s]				
461/499	0.206G	0.02167	0.008418	0.01945	1	320:
57% #####7	23/40 [00:04<00:02,	5.85it/s]				
461/499	0.206G	0.02115	0.008202	0.01925	1	320:
57% #####7	23/40 [00:04<00:02,	5.85it/s]				
461/499	0.206G	0.02115	0.008202	0.01925	1	320:
60% #####	24/40 [00:04<00:02,	5.84it/s]				
461/499	0.206G	0.02126	0.00851	0.01933	4	320:
60% #####	24/40 [00:04<00:02,	5.84it/s]				
461/499	0.206G	0.02126	0.00851	0.01933	4	320:
62% #####2	25/40 [00:04<00:02,	5.81it/s]				
461/499	0.206G	0.02232	0.008428	0.01925	2	320:
62% #####2	25/40 [00:04<00:02,	5.81it/s]				
461/499	0.206G	0.02232	0.008428	0.01925	2	320:
65% #####5	26/40 [00:04<00:02,	5.81it/s]				
461/499	0.206G	0.02218	0.008444	0.0193	2	320:
65% #####5	26/40 [00:04<00:02,	5.81it/s]				
461/499	0.206G	0.02218	0.008444	0.0193	2	320:
68% #####7	27/40 [00:04<00:02,	5.81it/s]				
461/499	0.206G	0.02192	0.008306	0.01918	1	320:
68% #####7	27/40 [00:04<00:02,	5.81it/s]				
461/499	0.206G	0.02192	0.008306	0.01918	1	320:
70% #####	28/40 [00:04<00:02,	5.80it/s]				
461/499	0.206G	0.02179	0.008352	0.01896	2	320:
70% #####	28/40 [00:05<00:02,	5.80it/s]				
461/499	0.206G	0.02179	0.008352	0.01896	2	320:
72% #####2	29/40 [00:05<00:01,	5.80it/s]				
461/499	0.206G	0.02147	0.008349	0.019	2	320:
72% #####2	29/40 [00:05<00:01,	5.80it/s]				
461/499	0.206G	0.02147	0.008349	0.019	2	320:
75% #####5	30/40 [00:05<00:01,	5.81it/s]				
461/499	0.206G	0.02209	0.008852	0.01934	2	320:

75%	#####5		30/40	[00:05<00:01,	5.81it/s]				
	461/499		0.206G	0.02209	0.008852	0.01934	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.65it/s]				
	461/499		0.206G	0.02306	0.008766	0.01994	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.65it/s]				
	461/499		0.206G	0.02306	0.008766	0.01994	2	320:	
80%	#####		32/40	[00:05<00:01,	5.55it/s]				
	461/499		0.206G	0.02259	0.008621	0.01972	1	320:	
80%	#####		32/40	[00:05<00:01,	5.55it/s]				
	461/499		0.206G	0.02259	0.008621	0.01972	1	320:	
82%	#####2		33/40	[00:05<00:01,	5.48it/s]				
	461/499		0.206G	0.02233	0.008506	0.01959	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.48it/s]				
	461/499		0.206G	0.02233	0.008506	0.01959	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.45it/s]				
	461/499		0.206G	0.02193	0.008414	0.01941	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.45it/s]				
	461/499		0.206G	0.02193	0.008414	0.01941	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.66it/s]				
	461/499		0.206G	0.02191	0.008554	0.01962	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.66it/s]				
	461/499		0.206G	0.02191	0.008554	0.01962	4	320:	
90%	#####		36/40	[00:06<00:00,	5.27it/s]				
	461/499		0.206G	0.02166	0.008427	0.01955	1	320:	
90%	#####		36/40	[00:06<00:00,	5.27it/s]				
	461/499		0.206G	0.02166	0.008427	0.01955	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.42it/s]				
	461/499		0.206G	0.02167	0.008433	0.01942	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.42it/s]				
	461/499		0.206G	0.02167	0.008433	0.01942	2	320:	
95%	#####5		38/40	[00:06<00:00,	5.54it/s]				
	461/499		0.206G	0.02129	0.008312	0.01931	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.54it/s]				
	461/499		0.206G	0.02129	0.008312	0.01931	1	320:	
98%	#####7		39/40	[00:06<00:00,	5.62it/s]				
	461/499		0.206G	0.02156	0.008457	0.01938	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.62it/s]				
	461/499		0.206G	0.02156	0.008457	0.01938	4	320:	
100%	#####		40/40	[00:07<00:00,	5.66it/s]				
	461/499		0.206G	0.02156	0.008457	0.01938	4	320:	
100%	#####		40/40	[00:07<00:00,	5.62it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 16.61it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:00, 17.55it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	15.46it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.74it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	55% #####5	11/20	[00:00<00:00,	17.79it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	65% #####5	13/20	[00:00<00:00,	17.93it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	18.08it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	18.43it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	18.38it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.80it/s]		
	all	40	40	0.965	0.965	0.992
0.812						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
462/499	0.206G	0.01307	0.004323	0.005545	1	320:
0%	0/40	[00:00<?,	?it/s]			
462/499	0.206G	0.01307	0.004323	0.005545	1	320:
2% 2	1/40	[00:00<00:05,	7.11it/s]			
462/499	0.206G	0.0337	0.005434	0.01369	2	320:
2% 2	1/40	[00:00<00:05,	7.11it/s]			
462/499	0.206G	0.0337	0.005434	0.01369	2	320:
5% 5	2/40	[00:00<00:06,	6.27it/s]			
462/499	0.206G	0.03408	0.005627	0.01387	2	320:
5% 5	2/40	[00:00<00:06,	6.27it/s]			
462/499	0.206G	0.03408	0.005627	0.01387	2	320:
8% 7	3/40	[00:00<00:06,	5.83it/s]			
462/499	0.206G	0.02745	0.005426	0.01493	1	320:
8% 7	3/40	[00:00<00:06,	5.83it/s]			
462/499	0.206G	0.02745	0.005426	0.01493	1	320:
10% #	4/40	[00:00<00:06,	5.79it/s]			
462/499	0.206G	0.02795	0.006413	0.01886	2	320:
10% #	4/40	[00:00<00:06,	5.79it/s]			
462/499	0.206G	0.02795	0.006413	0.01886	2	320:
12% #2	5/40	[00:00<00:06,	5.80it/s]			
462/499	0.206G	0.02792	0.00745	0.01956	4	320:
12% #2	5/40	[00:01<00:06,	5.80it/s]			
462/499	0.206G	0.02792	0.00745	0.01956	4	320:
15% #5	6/40	[00:01<00:06,	5.45it/s]			
462/499	0.206G	0.02779	0.007526	0.02224	2	320:
15% #5	6/40	[00:01<00:06,	5.45it/s]			

462/499	0.206G	0.02779	0.007526	0.02224	2	320:
18% #7	7/40 [00:01<00:06,	5.41it/s]				
462/499	0.206G	0.02922	0.008761	0.0221	4	320:
18% #7	7/40 [00:01<00:06,	5.41it/s]				
462/499	0.206G	0.02922	0.008761	0.0221	4	320:
20% ##	8/40 [00:01<00:05,	5.38it/s]				
462/499	0.206G	0.02728	0.008467	0.02197	2	320:
20% ##	8/40 [00:01<00:05,	5.38it/s]				
462/499	0.206G	0.02728	0.008467	0.02197	2	320:
22% ##2	9/40 [00:01<00:05,	5.51it/s]				
462/499	0.206G	0.02525	0.008049	0.02108	1	320:
22% ##2	9/40 [00:01<00:05,	5.51it/s]				
462/499	0.206G	0.02525	0.008049	0.02108	1	320:
25% ###5	10/40 [00:01<00:05,	5.31it/s]				
462/499	0.206G	0.0235	0.007583	0.02029	1	320:
25% ###5	10/40 [00:01<00:05,	5.31it/s]				
462/499	0.206G	0.0235	0.007583	0.02029	1	320:
28% ##7	11/40 [00:01<00:05,	5.32it/s]				
462/499	0.206G	0.02477	0.007432	0.0198	2	320:
28% ##7	11/40 [00:02<00:05,	5.32it/s]				
462/499	0.206G	0.02477	0.007432	0.0198	2	320:
30% ###	12/40 [00:02<00:05,	5.06it/s]				
462/499	0.206G	0.02347	0.007083	0.01949	1	320:
30% ###	12/40 [00:02<00:05,	5.06it/s]				
462/499	0.206G	0.02347	0.007083	0.01949	1	320:
32% ###2	13/40 [00:02<00:05,	5.02it/s]				
462/499	0.206G	0.02318	0.006884	0.01914	1	320:
32% ###2	13/40 [00:02<00:05,	5.02it/s]				
462/499	0.206G	0.02318	0.006884	0.01914	1	320:
35% ###5	14/40 [00:02<00:05,	4.98it/s]				
462/499	0.206G	0.02315	0.006841	0.0188	2	320:
35% ###5	14/40 [00:02<00:05,	4.98it/s]				
462/499	0.206G	0.02315	0.006841	0.0188	2	320:
38% ###7	15/40 [00:02<00:05,	4.94it/s]				
462/499	0.206G	0.02262	0.006713	0.01906	1	320:
38% ###7	15/40 [00:03<00:05,	4.94it/s]				
462/499	0.206G	0.02262	0.006713	0.01906	1	320:
40% ####	16/40 [00:03<00:04,	5.06it/s]				
462/499	0.206G	0.02219	0.006683	0.01888	2	320:
40% ####	16/40 [00:03<00:04,	5.06it/s]				
462/499	0.206G	0.02219	0.006683	0.01888	2	320:
42% ####2	17/40 [00:03<00:04,	4.99it/s]				
462/499	0.206G	0.02338	0.007063	0.01893	3	320:
42% ####2	17/40 [00:03<00:04,	4.99it/s]				
462/499	0.206G	0.02338	0.007063	0.01893	3	320:
45% ####5	18/40 [00:03<00:04,	4.86it/s]				
462/499	0.206G	0.02262	0.007059	0.01873	2	320:
45% ####5	18/40 [00:03<00:04,	4.86it/s]				

462/499	0.206G	0.02262	0.007059	0.01873	2	320:
48% #####7	19/40 [00:03<00:04,	4.99it/s]				
462/499	0.206G	0.02299	0.007186	0.01906	3	320:
48% #####7	19/40 [00:03<00:04,	4.99it/s]				
462/499	0.206G	0.02299	0.007186	0.01906	3	320:
50% #####	20/40 [00:03<00:04,	4.74it/s]				
462/499	0.206G	0.02389	0.00758	0.019	4	320:
50% #####	20/40 [00:04<00:04,	4.74it/s]				
462/499	0.206G	0.02389	0.00758	0.019	4	320:
52% #####2	21/40 [00:04<00:03,	4.79it/s]				
462/499	0.206G	0.0234	0.007533	0.01876	1	320:
52% #####2	21/40 [00:04<00:03,	4.79it/s]				
462/499	0.206G	0.0234	0.007533	0.01876	1	320:
55% #####5	22/40 [00:04<00:03,	4.84it/s]				
462/499	0.206G	0.02428	0.007679	0.01927	4	320:
55% #####5	22/40 [00:04<00:03,	4.84it/s]				
462/499	0.206G	0.02428	0.007679	0.01927	4	320:
57% #####7	23/40 [00:04<00:03,	4.86it/s]				
462/499	0.206G	0.02385	0.007492	0.01903	1	320:
57% #####7	23/40 [00:04<00:03,	4.86it/s]				
462/499	0.206G	0.02385	0.007492	0.01903	1	320:
60% #####	24/40 [00:04<00:03,	5.11it/s]				
462/499	0.206G	0.02359	0.007639	0.01902	4	320:
60% #####	24/40 [00:04<00:03,	5.11it/s]				
462/499	0.206G	0.02359	0.007639	0.01902	4	320:
62% #####2	25/40 [00:04<00:02,	5.16it/s]				
462/499	0.206G	0.02336	0.007819	0.01928	4	320:
62% #####2	25/40 [00:05<00:02,	5.16it/s]				
462/499	0.206G	0.02336	0.007819	0.01928	4	320:
65% #####5	26/40 [00:05<00:02,	5.21it/s]				
462/499	0.206G	0.02299	0.008178	0.01963	4	320:
65% #####5	26/40 [00:05<00:02,	5.21it/s]				
462/499	0.206G	0.02299	0.008178	0.01963	4	320:
68% #####7	27/40 [00:05<00:02,	5.25it/s]				
462/499	0.206G	0.02235	0.007971	0.01938	1	320:
68% #####7	27/40 [00:05<00:02,	5.25it/s]				
462/499	0.206G	0.02235	0.007971	0.01938	1	320:
70% #####	28/40 [00:05<00:02,	5.38it/s]				
462/499	0.206G	0.02213	0.007945	0.01922	2	320:
70% #####	28/40 [00:05<00:02,	5.38it/s]				
462/499	0.206G	0.02213	0.007945	0.01922	2	320:
72% #####2	29/40 [00:05<00:02,	5.36it/s]				
462/499	0.206G	0.02175	0.007902	0.01909	2	320:
72% #####2	29/40 [00:05<00:02,	5.36it/s]				
462/499	0.206G	0.02175	0.007902	0.01909	2	320:
75% #####5	30/40 [00:05<00:01,	5.50it/s]				
462/499	0.206G	0.02137	0.007738	0.01905	1	320:
75% #####5	30/40 [00:05<00:01,	5.50it/s]				

462/499	0.206G	0.02137	0.007738	0.01905	1	320:
78% #####7	31/40 [00:05<00:01,	5.56it/s]				
462/499	0.206G	0.02163	0.00798	0.01944	4	320:
78% #####7	31/40 [00:06<00:01,	5.56it/s]				
462/499	0.206G	0.02163	0.00798	0.01944	4	320:
80% #####	32/40 [00:06<00:01,	5.64it/s]				
462/499	0.206G	0.02133	0.007859	0.01931	1	320:
80% #####	32/40 [00:06<00:01,	5.64it/s]				
462/499	0.206G	0.02133	0.007859	0.01931	1	320:
82% #####2	33/40 [00:06<00:01,	5.54it/s]				
462/499	0.206G	0.02175	0.008077	0.0194	4	320:
82% #####2	33/40 [00:06<00:01,	5.54it/s]				
462/499	0.206G	0.02175	0.008077	0.0194	4	320:
85% #####5	34/40 [00:06<00:01,	5.47it/s]				
462/499	0.206G	0.02202	0.008196	0.01969	4	320:
85% #####5	34/40 [00:06<00:01,	5.47it/s]				
462/499	0.206G	0.02202	0.008196	0.01969	4	320:
88% #####7	35/40 [00:06<00:00,	5.43it/s]				
462/499	0.206G	0.02254	0.008199	0.01961	2	320:
88% #####7	35/40 [00:06<00:00,	5.43it/s]				
462/499	0.206G	0.02254	0.008199	0.01961	2	320:
90% #####	36/40 [00:06<00:00,	5.54it/s]				
462/499	0.206G	0.0222	0.008177	0.01966	2	320:
90% #####	36/40 [00:07<00:00,	5.54it/s]				
462/499	0.206G	0.0222	0.008177	0.01966	2	320:
92% #####2	37/40 [00:07<00:00,	5.46it/s]				
462/499	0.206G	0.02197	0.008181	0.0197	2	320:
92% #####2	37/40 [00:07<00:00,	5.46it/s]				
462/499	0.206G	0.02197	0.008181	0.0197	2	320:
95% #####5	38/40 [00:07<00:00,	5.71it/s]				
462/499	0.206G	0.02181	0.008415	0.01957	4	320:
95% #####5	38/40 [00:07<00:00,	5.71it/s]				
462/499	0.206G	0.02181	0.008415	0.01957	4	320:
98% #####7	39/40 [00:07<00:00,	5.56it/s]				
462/499	0.206G	0.02232	0.00843	0.01962	2	320:
98% #####7	39/40 [00:07<00:00,	5.56it/s]				
462/499	0.206G	0.02232	0.00843	0.01962	2	320:
100% #####	40/40 [00:07<00:00,	5.52it/s]				
462/499	0.206G	0.02232	0.00843	0.01962	2	320:
100% #####	40/40 [00:07<00:00,	5.30it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:01, 16.00it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20 [00:00<00:01, 14.90it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	30% ###		6/20	[00:00<00:00, 16.11it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	40% ####		8/20	[00:00<00:00, 16.07it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	50% #####		10/20	[00:00<00:00, 16.04it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	60% #####		12/20	[00:00<00:00, 16.74it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	70% #####		14/20	[00:00<00:00, 17.21it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	80% #####		16/20	[00:00<00:00, 17.39it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	90% #####		18/20	[00:01<00:00, 16.93it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	100% #####		20/20	[00:01<00:00, 17.33it/s]				
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	100% #####		20/20	[00:01<00:00, 16.76it/s]				
	all		40	40	0.97	0.975	0.993	
0.806								

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%			0/40	[00:00<?, ?it/s]			
463/499	0.206G	0.02072	0.0107	0.02019	4	320:	
0%			0/40	[00:00<?, ?it/s]			
463/499	0.206G	0.02072	0.0107	0.02019	4	320:	
2% 2			1/40	[00:00<00:06, 5.82it/s]			
463/499	0.206G	0.038	0.01055	0.02269	3	320:	
2% 2			1/40	[00:00<00:06, 5.82it/s]			
463/499	0.206G	0.038	0.01055	0.02269	3	320:	
5% 5			2/40	[00:00<00:06, 5.52it/s]			
463/499	0.206G	0.03704	0.01163	0.02127	3	320:	
5% 5			2/40	[00:00<00:06, 5.52it/s]			
463/499	0.206G	0.03704	0.01163	0.02127	3	320:	
8% 7			3/40	[00:00<00:06, 5.41it/s]			
463/499	0.206G	0.02977	0.009661	0.01983	1	320:	
8% 7			3/40	[00:00<00:06, 5.41it/s]			
463/499	0.206G	0.02977	0.009661	0.01983	1	320:	
10% #			4/40	[00:00<00:06, 5.56it/s]			
463/499	0.206G	0.02714	0.008514	0.01924	1	320:	
10% #			4/40	[00:00<00:06, 5.56it/s]			
463/499	0.206G	0.02714	0.008514	0.01924	1	320:	
12% #2			5/40	[00:00<00:06, 5.47it/s]			
463/499	0.206G	0.02663	0.009711	0.02006	4	320:	
12% #2			5/40	[00:01<00:06, 5.47it/s]			
463/499	0.206G	0.02663	0.009711	0.02006	4	320:	
15% #5			6/40	[00:01<00:06, 5.58it/s]			
463/499	0.206G	0.02586	0.008937	0.01917	1	320:	

15% #5	6/40 [00:01<00:06,	5.58it/s]				
463/499	0.206G	0.02586	0.008937	0.01917	1	320:
18% #7	7/40 [00:01<00:06,	5.50it/s]				
463/499	0.206G	0.0249	0.009773	0.01913	4	320:
18% #7	7/40 [00:01<00:06,	5.50it/s]				
463/499	0.206G	0.0249	0.009773	0.01913	4	320:
20% ##	8/40 [00:01<00:05,	5.60it/s]				
463/499	0.206G	0.02455	0.01062	0.01927	4	320:
20% ##	8/40 [00:01<00:05,	5.60it/s]				
463/499	0.206G	0.02455	0.01062	0.01927	4	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
463/499	0.206G	0.02749	0.009849	0.01916	2	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
463/499	0.206G	0.02749	0.009849	0.01916	2	320:
25% ##5	10/40 [00:01<00:05,	5.54it/s]				
463/499	0.206G	0.02563	0.009301	0.01942	1	320:
25% ##5	10/40 [00:01<00:05,	5.54it/s]				
463/499	0.206G	0.02563	0.009301	0.01942	1	320:
28% ##7	11/40 [00:01<00:05,	5.62it/s]				
463/499	0.206G	0.02444	0.009452	0.019	2	320:
28% ##7	11/40 [00:02<00:05,	5.62it/s]				
463/499	0.206G	0.02444	0.009452	0.019	2	320:
30% ###	12/40 [00:02<00:04,	5.66it/s]				
463/499	0.206G	0.02331	0.008986	0.01838	1	320:
30% ###	12/40 [00:02<00:04,	5.66it/s]				
463/499	0.206G	0.02331	0.008986	0.01838	1	320:
32% ###2	13/40 [00:02<00:04,	5.71it/s]				
463/499	0.206G	0.02334	0.009217	0.01897	4	320:
32% ###2	13/40 [00:02<00:04,	5.71it/s]				
463/499	0.206G	0.02334	0.009217	0.01897	4	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
463/499	0.206G	0.02356	0.00952	0.0192	4	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
463/499	0.206G	0.02356	0.00952	0.0192	4	320:
38% ###7	15/40 [00:02<00:04,	5.64it/s]				
463/499	0.206G	0.02278	0.009391	0.01893	2	320:
38% ###7	15/40 [00:02<00:04,	5.64it/s]				
463/499	0.206G	0.02278	0.009391	0.01893	2	320:
40% ####	16/40 [00:02<00:04,	5.85it/s]				
463/499	0.206G	0.02207	0.009185	0.01861	1	320:
40% ####	16/40 [00:03<00:04,	5.85it/s]				
463/499	0.206G	0.02207	0.009185	0.01861	1	320:
42% ####2	17/40 [00:03<00:03,	5.84it/s]				
463/499	0.206G	0.0215	0.009012	0.01824	2	320:
42% ####2	17/40 [00:03<00:03,	5.84it/s]				
463/499	0.206G	0.0215	0.009012	0.01824	2	320:
45% ####5	18/40 [00:03<00:03,	5.82it/s]				
463/499	0.206G	0.02087	0.008825	0.01796	1	320:

45% #####5	18/40 [00:03<00:03,	5.82it/s]				
463/499	0.206G	0.02087	0.008825	0.01796	1	320:
48% #####7	19/40 [00:03<00:03,	5.82it/s]				
463/499	0.206G	0.02094	0.009007	0.01921	2	320:
48% #####7	19/40 [00:03<00:03,	5.82it/s]				
463/499	0.206G	0.02094	0.009007	0.01921	2	320:
50% #####	20/40 [00:03<00:03,	5.52it/s]				
463/499	0.206G	0.02039	0.008807	0.01896	1	320:
50% #####	20/40 [00:03<00:03,	5.52it/s]				
463/499	0.206G	0.02039	0.008807	0.01896	1	320:
52% #####2	21/40 [00:03<00:03,	5.60it/s]				
463/499	0.206G	0.01989	0.008537	0.01879	1	320:
52% #####2	21/40 [00:03<00:03,	5.60it/s]				
463/499	0.206G	0.01989	0.008537	0.01879	1	320:
55% #####5	22/40 [00:03<00:03,	5.66it/s]				
463/499	0.206G	0.01959	0.008403	0.01858	2	320:
55% #####5	22/40 [00:04<00:03,	5.66it/s]				
463/499	0.206G	0.01959	0.008403	0.01858	2	320:
57% #####7	23/40 [00:04<00:02,	5.71it/s]				
463/499	0.206G	0.01938	0.008214	0.01865	1	320:
57% #####7	23/40 [00:04<00:02,	5.71it/s]				
463/499	0.206G	0.01938	0.008214	0.01865	1	320:
60% #####	24/40 [00:04<00:02,	5.71it/s]				
463/499	0.206G	0.01908	0.008081	0.01843	1	320:
60% #####	24/40 [00:04<00:02,	5.71it/s]				
463/499	0.206G	0.01908	0.008081	0.01843	1	320:
62% #####2	25/40 [00:04<00:02,	5.74it/s]				
463/499	0.206G	0.0202	0.008036	0.01881	2	320:
62% #####2	25/40 [00:04<00:02,	5.74it/s]				
463/499	0.206G	0.0202	0.008036	0.01881	2	320:
65% #####5	26/40 [00:04<00:02,	5.61it/s]				
463/499	0.206G	0.01982	0.007957	0.0186	1	320:
65% #####5	26/40 [00:04<00:02,	5.61it/s]				
463/499	0.206G	0.01982	0.007957	0.0186	1	320:
68% #####7	27/40 [00:04<00:02,	5.66it/s]				
463/499	0.206G	0.01948	0.007785	0.01846	1	320:
68% #####7	27/40 [00:04<00:02,	5.66it/s]				
463/499	0.206G	0.01948	0.007785	0.01846	1	320:
70% #####	28/40 [00:04<00:02,	5.70it/s]				
463/499	0.206G	0.01915	0.007617	0.01851	1	320:
70% #####	28/40 [00:05<00:02,	5.70it/s]				
463/499	0.206G	0.01915	0.007617	0.01851	1	320:
72% #####2	29/40 [00:05<00:01,	5.59it/s]				
463/499	0.206G	0.01892	0.007457	0.01866	1	320:
72% #####2	29/40 [00:05<00:01,	5.59it/s]				
463/499	0.206G	0.01892	0.007457	0.01866	1	320:
75% #####5	30/40 [00:05<00:01,	5.48it/s]				
463/499	0.206G	0.01854	0.007313	0.01841	1	320:

75% #####5		30/40	[00:05<00:01,	5.48it/s]			
463/499		0.206G	0.01854	0.007313	0.01841	1	320:
78% #####7		31/40	[00:05<00:01,	5.58it/s]			
463/499		0.206G	0.01818	0.007164	0.01831	1	320:
78% #####7		31/40	[00:05<00:01,	5.58it/s]			
463/499		0.206G	0.01818	0.007164	0.01831	1	320:
80% #####		32/40	[00:05<00:01,	5.50it/s]			
463/499		0.206G	0.01802	0.007128	0.01825	2	320:
80% #####		32/40	[00:05<00:01,	5.50it/s]			
463/499		0.206G	0.01802	0.007128	0.01825	2	320:
82% #####2		33/40	[00:05<00:01,	5.58it/s]			
463/499		0.206G	0.01793	0.007335	0.01847	2	320:
82% #####2		33/40	[00:06<00:01,	5.58it/s]			
463/499		0.206G	0.01793	0.007335	0.01847	2	320:
85% #####5		34/40	[00:06<00:01,	5.50it/s]			
463/499		0.206G	0.01808	0.007417	0.01848	2	320:
85% #####5		34/40	[00:06<00:01,	5.50it/s]			
463/499		0.206G	0.01808	0.007417	0.01848	2	320:
88% #####7		35/40	[00:06<00:00,	5.43it/s]			
463/499		0.206G	0.01788	0.007295	0.01831	1	320:
88% #####7		35/40	[00:06<00:00,	5.43it/s]			
463/499		0.206G	0.01788	0.007295	0.01831	1	320:
90% #####		36/40	[00:06<00:00,	5.56it/s]			
463/499		0.206G	0.01796	0.007654	0.01826	4	320:
90% #####		36/40	[00:06<00:00,	5.56it/s]			
463/499		0.206G	0.01796	0.007654	0.01826	4	320:
92% #####2		37/40	[00:06<00:00,	5.49it/s]			
463/499		0.206G	0.01845	0.007699	0.01848	2	320:
92% #####2		37/40	[00:06<00:00,	5.49it/s]			
463/499		0.206G	0.01845	0.007699	0.01848	2	320:
95% #####5		38/40	[00:06<00:00,	5.23it/s]			
463/499		0.206G	0.01828	0.0076	0.01849	1	320:
95% #####5		38/40	[00:06<00:00,	5.23it/s]			
463/499		0.206G	0.01828	0.0076	0.01849	1	320:
98% #####7		39/40	[00:06<00:00,	5.43it/s]			
463/499		0.206G	0.01839	0.007727	0.01862	4	320:
98% #####7		39/40	[00:07<00:00,	5.43it/s]			
463/499		0.206G	0.01839	0.007727	0.01862	4	320:
100% #####		40/40	[00:07<00:00,	5.53it/s]			
463/499		0.206G	0.01839	0.007727	0.01862	4	320:
100% #####		40/40	[00:07<00:00,	5.59it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 15.96it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:00, 16.19it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	16.10it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.90it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	17.37it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	17.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	17.79it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	17.95it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	17.29it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.87it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.06it/s]		
	all	40	40	0.97	0.975	0.993

0.806

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
464/499	0.206G	0.01415	0.007788	0.01084	1	320:
0%	0/40	[00:00<?,	?it/s]			
464/499	0.206G	0.01415	0.007788	0.01084	1	320:
2% 2	1/40	[00:00<00:07,	5.33it/s]			
464/499	0.206G	0.01472	0.008611	0.01987	4	320:
2% 2	1/40	[00:00<00:07,	5.33it/s]			
464/499	0.206G	0.01472	0.008611	0.01987	4	320:
5% 5	2/40	[00:00<00:07,	5.08it/s]			
464/499	0.206G	0.01274	0.006612	0.01753	1	320:
5% 5	2/40	[00:00<00:07,	5.08it/s]			
464/499	0.206G	0.01274	0.006612	0.01753	1	320:
8% 7	3/40	[00:00<00:07,	5.01it/s]			
464/499	0.206G	0.01407	0.009222	0.01745	4	320:
8% 7	3/40	[00:00<00:07,	5.01it/s]			
464/499	0.206G	0.01407	0.009222	0.01745	4	320:
10% #	4/40	[00:00<00:08,	4.29it/s]			
464/499	0.206G	0.01481	0.01037	0.01758	4	320:
10% #	4/40	[00:01<00:08,	4.29it/s]			
464/499	0.206G	0.01481	0.01037	0.01758	4	320:
12% #2	5/40	[00:01<00:07,	4.50it/s]			
464/499	0.206G	0.01378	0.0101	0.01702	4	320:
12% #2	5/40	[00:01<00:07,	4.50it/s]			
464/499	0.206G	0.01378	0.0101	0.01702	4	320:
15% #5	6/40	[00:01<00:07,	4.73it/s]			

464/499	0.206G	0.01618	0.009719	0.01665	2	320:
15% #5	6/40 [00:01<00:07,	4.73it/s]				
464/499	0.206G	0.01618	0.009719	0.01665	2	320:
18% #7	7/40 [00:01<00:07,	4.69it/s]				
464/499	0.206G	0.01699	0.009805	0.01847	2	320:
18% #7	7/40 [00:01<00:07,	4.69it/s]				
464/499	0.206G	0.01699	0.009805	0.01847	2	320:
20% ##	8/40 [00:01<00:06,	4.65it/s]				
464/499	0.206G	0.01708	0.01004	0.01825	4	320:
20% ##	8/40 [00:01<00:06,	4.65it/s]				
464/499	0.206G	0.01708	0.01004	0.01825	4	320:
22% ##2	9/40 [00:01<00:06,	4.57it/s]				
464/499	0.206G	0.0166	0.009296	0.01841	1	320:
22% ##2	9/40 [00:02<00:06,	4.57it/s]				
464/499	0.206G	0.0166	0.009296	0.01841	1	320:
25% ##5	10/40 [00:02<00:06,	4.82it/s]				
464/499	0.206G	0.01641	0.009096	0.01811	2	320:
25% ##5	10/40 [00:02<00:06,	4.82it/s]				
464/499	0.206G	0.01641	0.009096	0.01811	2	320:
28% ##7	11/40 [00:02<00:05,	4.85it/s]				
464/499	0.206G	0.01616	0.008886	0.0181	2	320:
28% ##7	11/40 [00:02<00:05,	4.85it/s]				
464/499	0.206G	0.01616	0.008886	0.0181	2	320:
30% ###	12/40 [00:02<00:05,	4.86it/s]				
464/499	0.206G	0.01843	0.009059	0.01862	2	320:
30% ###	12/40 [00:02<00:05,	4.86it/s]				
464/499	0.206G	0.01843	0.009059	0.01862	2	320:
32% ###2	13/40 [00:02<00:05,	4.88it/s]				
464/499	0.206G	0.0187	0.009506	0.01855	4	320:
32% ###2	13/40 [00:02<00:05,	4.88it/s]				
464/499	0.206G	0.0187	0.009506	0.01855	4	320:
35% ###5	14/40 [00:02<00:05,	5.01it/s]				
464/499	0.206G	0.02051	0.009243	0.01877	2	320:
35% ###5	14/40 [00:03<00:05,	5.01it/s]				
464/499	0.206G	0.02051	0.009243	0.01877	2	320:
38% ###7	15/40 [00:03<00:05,	4.98it/s]				
464/499	0.206G	0.01997	0.00927	0.01846	3	320:
38% ###7	15/40 [00:03<00:05,	4.98it/s]				
464/499	0.206G	0.01997	0.00927	0.01846	3	320:
40% ####	16/40 [00:03<00:04,	5.21it/s]				
464/499	0.206G	0.02001	0.009297	0.01838	2	320:
40% ####	16/40 [00:03<00:04,	5.21it/s]				
464/499	0.206G	0.02001	0.009297	0.01838	2	320:
42% ####2	17/40 [00:03<00:04,	5.10it/s]				
464/499	0.206G	0.0195	0.009073	0.01818	2	320:
42% ####2	17/40 [00:03<00:04,	5.10it/s]				
464/499	0.206G	0.0195	0.009073	0.01818	2	320:
45% ####5	18/40 [00:03<00:04,	5.29it/s]				

464/499	0.206G	0.01902	0.008949	0.01794	2	320:
45% #####5	18/40 [00:03<00:04,	5.29it/s]				
464/499	0.206G	0.01902	0.008949	0.01794	2	320:
48% #####7	19/40 [00:03<00:03,	5.44it/s]				
464/499	0.206G	0.02012	0.008918	0.01781	2	320:
48% #####7	19/40 [00:04<00:03,	5.44it/s]				
464/499	0.206G	0.02012	0.008918	0.01781	2	320:
50% #####	20/40 [00:04<00:03,	5.52it/s]				
464/499	0.206G	0.01987	0.008773	0.01758	2	320:
50% #####	20/40 [00:04<00:03,	5.52it/s]				
464/499	0.206G	0.01987	0.008773	0.01758	2	320:
52% #####2	21/40 [00:04<00:03,	5.47it/s]				
464/499	0.206G	0.01952	0.008535	0.01785	1	320:
52% #####2	21/40 [00:04<00:03,	5.47it/s]				
464/499	0.206G	0.01952	0.008535	0.01785	1	320:
55% #####5	22/40 [00:04<00:03,	5.42it/s]				
464/499	0.206G	0.01898	0.008376	0.01766	1	320:
55% #####5	22/40 [00:04<00:03,	5.42it/s]				
464/499	0.206G	0.01898	0.008376	0.01766	1	320:
57% #####7	23/40 [00:04<00:03,	5.53it/s]				
464/499	0.206G	0.02004	0.008485	0.01778	3	320:
57% #####7	23/40 [00:04<00:03,	5.53it/s]				
464/499	0.206G	0.02004	0.008485	0.01778	3	320:
60% #####	24/40 [00:04<00:03,	5.33it/s]				
464/499	0.206G	0.01976	0.008493	0.01795	2	320:
60% #####	24/40 [00:04<00:03,	5.33it/s]				
464/499	0.206G	0.01976	0.008493	0.01795	2	320:
62% #####2	25/40 [00:04<00:02,	5.61it/s]				
464/499	0.206G	0.02005	0.008448	0.0178	2	320:
62% #####2	25/40 [00:05<00:02,	5.61it/s]				
464/499	0.206G	0.02005	0.008448	0.0178	2	320:
65% #####5	26/40 [00:05<00:02,	5.50it/s]				
464/499	0.206G	0.01998	0.008387	0.01787	1	320:
65% #####5	26/40 [00:05<00:02,	5.50it/s]				
464/499	0.206G	0.01998	0.008387	0.01787	1	320:
68% #####7	27/40 [00:05<00:02,	5.59it/s]				
464/499	0.206G	0.02116	0.008462	0.01792	2	320:
68% #####7	27/40 [00:05<00:02,	5.59it/s]				
464/499	0.206G	0.02116	0.008462	0.01792	2	320:
70% #####	28/40 [00:05<00:02,	5.37it/s]				
464/499	0.206G	0.02127	0.008533	0.01811	3	320:
70% #####	28/40 [00:05<00:02,	5.37it/s]				
464/499	0.206G	0.02127	0.008533	0.01811	3	320:
72% #####2	29/40 [00:05<00:02,	5.49it/s]				
464/499	0.206G	0.02188	0.008528	0.0182	2	320:
72% #####2	29/40 [00:05<00:02,	5.49it/s]				
464/499	0.206G	0.02188	0.008528	0.0182	2	320:
75% #####5	30/40 [00:05<00:01,	5.44it/s]				

464/499	0.206G	0.02184	0.00875	0.01813	4	320:
75% #####5	30/40 [00:06<00:01,	5.44it/s]				
464/499	0.206G	0.02184	0.00875	0.01813	4	320:
78% #####7	31/40 [00:06<00:01,	5.55it/s]				
464/499	0.206G	0.02155	0.00857	0.01791	1	320:
78% #####7	31/40 [00:06<00:01,	5.55it/s]				
464/499	0.206G	0.02155	0.00857	0.01791	1	320:
80% #####	32/40 [00:06<00:01,	5.76it/s]				
464/499	0.206G	0.02213	0.008601	0.01819	2	320:
80% #####	32/40 [00:06<00:01,	5.76it/s]				
464/499	0.206G	0.02213	0.008601	0.01819	2	320:
82% #####2	33/40 [00:06<00:01,	5.78it/s]				
464/499	0.206G	0.02209	0.008767	0.01845	4	320:
82% #####2	33/40 [00:06<00:01,	5.78it/s]				
464/499	0.206G	0.02209	0.008767	0.01845	4	320:
85% #####5	34/40 [00:06<00:01,	5.49it/s]				
464/499	0.206G	0.02186	0.008678	0.01839	2	320:
85% #####5	34/40 [00:06<00:01,	5.49it/s]				
464/499	0.206G	0.02186	0.008678	0.01839	2	320:
88% #####7	35/40 [00:06<00:00,	5.71it/s]				
464/499	0.206G	0.02145	0.008605	0.01826	2	320:
88% #####7	35/40 [00:06<00:00,	5.71it/s]				
464/499	0.206G	0.02145	0.008605	0.01826	2	320:
90% #####	36/40 [00:06<00:00,	5.74it/s]				
464/499	0.206G	0.02136	0.008582	0.01812	2	320:
90% #####	36/40 [00:07<00:00,	5.74it/s]				
464/499	0.206G	0.02136	0.008582	0.01812	2	320:
92% #####2	37/40 [00:07<00:00,	5.76it/s]				
464/499	0.206G	0.02098	0.00843	0.01811	1	320:
92% #####2	37/40 [00:07<00:00,	5.76it/s]				
464/499	0.206G	0.02098	0.00843	0.01811	1	320:
95% #####5	38/40 [00:07<00:00,	5.77it/s]				
464/499	0.206G	0.02113	0.008669	0.01824	4	320:
95% #####5	38/40 [00:07<00:00,	5.77it/s]				
464/499	0.206G	0.02113	0.008669	0.01824	4	320:
98% #####7	39/40 [00:07<00:00,	5.49it/s]				
464/499	0.206G	0.02122	0.008845	0.01834	4	320:
98% #####7	39/40 [00:07<00:00,	5.49it/s]				
464/499	0.206G	0.02122	0.008845	0.01834	4	320:
100% #####	40/40 [00:07<00:00,	5.44it/s]				
464/499	0.206G	0.02122	0.008845	0.01834	4	320:
100% #####	40/40 [00:07<00:00,	5.25it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:01,	15.75it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 17.15it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 17.65it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 17.87it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.83it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.32it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 16.17it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 16.79it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5	19/20 [00:01<00:00, 17.55it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.22it/s]					
	all	40	40	0.976	0.975	0.994	
0.814							

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
465/499	0.206G	0.02392	0.01594	0.03253	4	320:	
0%		0/40 [00:00<?, ?it/s]					
465/499	0.206G	0.02392	0.01594	0.03253	4	320:	
2% 2		1/40 [00:00<00:06, 5.82it/s]					
465/499	0.206G	0.02636	0.01227	0.02829	4	320:	
2% 2		1/40 [00:00<00:06, 5.82it/s]					
465/499	0.206G	0.02636	0.01227	0.02829	4	320:	
5% 5		2/40 [00:00<00:06, 5.82it/s]					
465/499	0.206G	0.02162	0.01105	0.02659	2	320:	
5% 5		2/40 [00:00<00:06, 5.82it/s]					
465/499	0.206G	0.02162	0.01105	0.02659	2	320:	
8% 7		3/40 [00:00<00:06, 5.82it/s]					
465/499	0.206G	0.01834	0.009466	0.02331	1	320:	
8% 7		3/40 [00:00<00:06, 5.82it/s]					
465/499	0.206G	0.01834	0.009466	0.02331	1	320:	
10% #		4/40 [00:00<00:06, 5.80it/s]					
465/499	0.206G	0.01605	0.008286	0.02115	1	320:	
10% #		4/40 [00:00<00:06, 5.80it/s]					
465/499	0.206G	0.01605	0.008286	0.02115	1	320:	
12% #2		5/40 [00:00<00:06, 5.62it/s]					
465/499	0.206G	0.01686	0.009178	0.0207	4	320:	
12% #2		5/40 [00:01<00:06, 5.62it/s]					
465/499	0.206G	0.01686	0.009178	0.0207	4	320:	
15% #5		6/40 [00:01<00:05, 5.69it/s]					
465/499	0.206G	0.01652	0.00883	0.02002	1	320:	

15% #5	6/40 [00:01<00:05,	5.69it/s]				
465/499	0.206G	0.01652	0.00883	0.02002	1	320:
18% #7	7/40 [00:01<00:05,	5.71it/s]				
465/499	0.206G	0.01671	0.008844	0.02047	4	320:
18% #7	7/40 [00:01<00:05,	5.71it/s]				
465/499	0.206G	0.01671	0.008844	0.02047	4	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
465/499	0.206G	0.01914	0.008948	0.02004	2	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
465/499	0.206G	0.01914	0.008948	0.02004	2	320:
22% ##2	9/40 [00:01<00:05,	5.47it/s]				
465/499	0.206G	0.02114	0.009301	0.01989	4	320:
22% ##2	9/40 [00:01<00:05,	5.47it/s]				
465/499	0.206G	0.02114	0.009301	0.01989	4	320:
25% ##5	10/40 [00:01<00:05,	5.49it/s]				
465/499	0.206G	0.02103	0.008911	0.01927	1	320:
25% ##5	10/40 [00:01<00:05,	5.49it/s]				
465/499	0.206G	0.02103	0.008911	0.01927	1	320:
28% ##7	11/40 [00:01<00:05,	5.59it/s]				
465/499	0.206G	0.02076	0.009142	0.01966	4	320:
28% ##7	11/40 [00:02<00:05,	5.59it/s]				
465/499	0.206G	0.02076	0.009142	0.01966	4	320:
30% ###	12/40 [00:02<00:05,	5.53it/s]				
465/499	0.206G	0.01986	0.009287	0.01955	2	320:
30% ###	12/40 [00:02<00:05,	5.53it/s]				
465/499	0.206G	0.01986	0.009287	0.01955	2	320:
32% ###2	13/40 [00:02<00:04,	5.71it/s]				
465/499	0.206G	0.02179	0.009976	0.02003	4	320:
32% ###2	13/40 [00:02<00:04,	5.71it/s]				
465/499	0.206G	0.02179	0.009976	0.02003	4	320:
35% ###5	14/40 [00:02<00:04,	5.74it/s]				
465/499	0.206G	0.02097	0.009579	0.01955	1	320:
35% ###5	14/40 [00:02<00:04,	5.74it/s]				
465/499	0.206G	0.02097	0.009579	0.01955	1	320:
38% ###7	15/40 [00:02<00:04,	5.73it/s]				
465/499	0.206G	0.02083	0.009354	0.01971	2	320:
38% ###7	15/40 [00:02<00:04,	5.73it/s]				
465/499	0.206G	0.02083	0.009354	0.01971	2	320:
40% ####	16/40 [00:02<00:04,	5.63it/s]				
465/499	0.206G	0.02048	0.009175	0.01944	1	320:
40% ####	16/40 [00:03<00:04,	5.63it/s]				
465/499	0.206G	0.02048	0.009175	0.01944	1	320:
42% ####2	17/40 [00:03<00:04,	5.68it/s]				
465/499	0.206G	0.02	0.008873	0.01935	1	320:
42% ####2	17/40 [00:03<00:04,	5.68it/s]				
465/499	0.206G	0.02	0.008873	0.01935	1	320:
45% ####5	18/40 [00:03<00:03,	5.70it/s]				
465/499	0.206G	0.0202	0.009223	0.01929	4	320:

45% #####5	18/40 [00:03<00:03,	5.70it/s]				
465/499	0.206G	0.0202	0.009223	0.01929	4	320:
48% #####7	19/40 [00:03<00:03,	5.44it/s]				
465/499	0.206G	0.02032	0.009352	0.01949	4	320:
48% #####7	19/40 [00:03<00:03,	5.44it/s]				
465/499	0.206G	0.02032	0.009352	0.01949	4	320:
50% #####	20/40 [00:03<00:03,	5.40it/s]				
465/499	0.206G	0.01992	0.009133	0.01898	2	320:
50% #####	20/40 [00:03<00:03,	5.40it/s]				
465/499	0.206G	0.01992	0.009133	0.01898	2	320:
52% #####2	21/40 [00:03<00:03,	5.58it/s]				
465/499	0.206G	0.0207	0.009092	0.01892	2	320:
52% #####2	21/40 [00:03<00:03,	5.58it/s]				
465/499	0.206G	0.0207	0.009092	0.01892	2	320:
55% #####5	22/40 [00:03<00:03,	5.58it/s]				
465/499	0.206G	0.02032	0.008826	0.01877	1	320:
55% #####5	22/40 [00:04<00:03,	5.58it/s]				
465/499	0.206G	0.02032	0.008826	0.01877	1	320:
57% #####7	23/40 [00:04<00:02,	5.80it/s]				
465/499	0.206G	0.02001	0.008581	0.01882	1	320:
57% #####7	23/40 [00:04<00:02,	5.80it/s]				
465/499	0.206G	0.02001	0.008581	0.01882	1	320:
60% #####	24/40 [00:04<00:02,	5.67it/s]				
465/499	0.206G	0.01955	0.008387	0.01884	1	320:
60% #####	24/40 [00:04<00:02,	5.67it/s]				
465/499	0.206G	0.01955	0.008387	0.01884	1	320:
62% #####2	25/40 [00:04<00:02,	5.68it/s]				
465/499	0.206G	0.01925	0.00862	0.01864	4	320:
62% #####2	25/40 [00:04<00:02,	5.68it/s]				
465/499	0.206G	0.01925	0.00862	0.01864	4	320:
65% #####5	26/40 [00:04<00:02,	5.57it/s]				
465/499	0.206G	0.01884	0.008435	0.01842	1	320:
65% #####5	26/40 [00:04<00:02,	5.57it/s]				
465/499	0.206G	0.01884	0.008435	0.01842	1	320:
68% #####7	27/40 [00:04<00:02,	5.66it/s]				
465/499	0.206G	0.01858	0.008256	0.01829	1	320:
68% #####7	27/40 [00:05<00:02,	5.66it/s]				
465/499	0.206G	0.01858	0.008256	0.01829	1	320:
70% #####	28/40 [00:05<00:02,	5.39it/s]				
465/499	0.206G	0.01873	0.008449	0.0183	4	320:
70% #####	28/40 [00:05<00:02,	5.39it/s]				
465/499	0.206G	0.01873	0.008449	0.0183	4	320:
72% #####2	29/40 [00:05<00:01,	5.51it/s]				
465/499	0.206G	0.0187	0.008411	0.01828	2	320:
72% #####2	29/40 [00:05<00:01,	5.51it/s]				
465/499	0.206G	0.0187	0.008411	0.01828	2	320:
75% #####5	30/40 [00:05<00:01,	5.57it/s]				
465/499	0.206G	0.01835	0.00834	0.01813	2	320:

75% #####5		30/40	[00:05<00:01,	5.57it/s]			
465/499		0.206G	0.01835	0.00834	0.01813	2	320:
78% #####7		31/40	[00:05<00:01,	5.64it/s]			
465/499		0.206G	0.01853	0.008296	0.01814	2	320:
78% #####7		31/40	[00:05<00:01,	5.64it/s]			
465/499		0.206G	0.01853	0.008296	0.01814	2	320:
80% #####		32/40	[00:05<00:01,	5.55it/s]			
465/499		0.206G	0.01834	0.008211	0.01808	1	320:
80% #####		32/40	[00:05<00:01,	5.55it/s]			
465/499		0.206G	0.01834	0.008211	0.01808	1	320:
82% #####2		33/40	[00:05<00:01,	5.61it/s]			
465/499		0.206G	0.01906	0.008294	0.0183	4	320:
82% #####2		33/40	[00:06<00:01,	5.61it/s]			
465/499		0.206G	0.01906	0.008294	0.0183	4	320:
85% #####5		34/40	[00:06<00:01,	5.68it/s]			
465/499		0.206G	0.01921	0.008302	0.01829	2	320:
85% #####5		34/40	[00:06<00:01,	5.68it/s]			
465/499		0.206G	0.01921	0.008302	0.01829	2	320:
88% #####7		35/40	[00:06<00:00,	5.57it/s]			
465/499		0.206G	0.01948	0.008427	0.01844	3	320:
88% #####7		35/40	[00:06<00:00,	5.57it/s]			
465/499		0.206G	0.01948	0.008427	0.01844	3	320:
90% #####		36/40	[00:06<00:00,	5.48it/s]			
465/499		0.206G	0.01927	0.00831	0.01834	1	320:
90% #####		36/40	[00:06<00:00,	5.48it/s]			
465/499		0.206G	0.01927	0.00831	0.01834	1	320:
92% #####2		37/40	[00:06<00:00,	5.57it/s]			
465/499		0.206G	0.0193	0.008457	0.01836	4	320:
92% #####2		37/40	[00:06<00:00,	5.57it/s]			
465/499		0.206G	0.0193	0.008457	0.01836	4	320:
95% #####5		38/40	[00:06<00:00,	5.23it/s]			
465/499		0.206G	0.01924	0.008534	0.01829	4	320:
95% #####5		38/40	[00:07<00:00,	5.23it/s]			
465/499		0.206G	0.01924	0.008534	0.01829	4	320:
98% #####7		39/40	[00:07<00:00,	5.13it/s]			
465/499		0.206G	0.01925	0.008689	0.0183	4	320:
98% #####7		39/40	[00:07<00:00,	5.13it/s]			
465/499		0.206G	0.01925	0.008689	0.0183	4	320:
100% #####		40/40	[00:07<00:00,	4.84it/s]			
465/499		0.206G	0.01925	0.008689	0.0183	4	320:
100% #####		40/40	[00:07<00:00,	5.51it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:00, 18.29it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 15.51it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 30%	###	6/20	[00:00<00:00, 14.90it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40%	####	8/20	[00:00<00:00, 14.60it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50%	#####	10/20	[00:00<00:00, 13.42it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60%	#####	12/20	[00:00<00:00, 13.57it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70%	#####	14/20	[00:00<00:00, 14.28it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80%	#####	16/20	[00:01<00:00, 14.26it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90%	#####	18/20	[00:01<00:00, 14.20it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100%	#####	20/20	[00:01<00:00, 14.71it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100%	#####	20/20	[00:01<00:00, 14.48it/s]			
	all	40	40	0.962	0.965	0.994
0.805						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
466/499	0.206G	0.02492	0.01644	0.02025	2	320:
0%	0/40	[00:00<?, ?it/s]				
466/499	0.206G	0.02492	0.01644	0.02025	2	320:
2% 2	1/40	[00:00<00:07, 5.35it/s]				
466/499	0.206G	0.01462	0.009543	0.01721	1	320:
2% 2	1/40	[00:00<00:07, 5.35it/s]				
466/499	0.206G	0.01462	0.009543	0.01721	1	320:
5% 5	2/40	[00:00<00:07, 5.34it/s]				
466/499	0.206G	0.01242	0.007952	0.01617	1	320:
5% 5	2/40	[00:00<00:07, 5.34it/s]				
466/499	0.206G	0.01242	0.007952	0.01617	1	320:
8% 7	3/40	[00:00<00:06, 5.32it/s]				
466/499	0.206G	0.01202	0.007726	0.01547	2	320:
8% 7	3/40	[00:00<00:06, 5.32it/s]				
466/499	0.206G	0.01202	0.007726	0.01547	2	320:
10% #	4/40	[00:00<00:06, 5.32it/s]				
466/499	0.206G	0.01158	0.007652	0.015	2	320:
10% #	4/40	[00:00<00:06, 5.32it/s]				
466/499	0.206G	0.01158	0.007652	0.015	2	320:
12% #2	5/40	[00:00<00:06, 5.33it/s]				
466/499	0.206G	0.0113	0.007037	0.01437	1	320:
12% #2	5/40	[00:01<00:06, 5.33it/s]				
466/499	0.206G	0.0113	0.007037	0.01437	1	320:
15% #5	6/40	[00:01<00:06, 5.46it/s]				

466/499	0.206G	0.01074	0.006533	0.01379	1	320:
15% #5	6/40 [00:01<00:06,	5.46it/s]				
466/499	0.206G	0.01074	0.006533	0.01379	1	320:
18% #7	7/40 [00:01<00:05,	5.57it/s]				
466/499	0.206G	0.01012	0.006008	0.01351	1	320:
18% #7	7/40 [00:01<00:05,	5.57it/s]				
466/499	0.206G	0.01012	0.006008	0.01351	1	320:
20% ##	8/40 [00:01<00:05,	5.65it/s]				
466/499	0.206G	0.01095	0.005763	0.01351	1	320:
20% ##	8/40 [00:01<00:05,	5.65it/s]				
466/499	0.206G	0.01095	0.005763	0.01351	1	320:
22% ##2	9/40 [00:01<00:05,	5.67it/s]				
466/499	0.206G	0.01244	0.006862	0.01363	2	320:
22% ##2	9/40 [00:01<00:05,	5.67it/s]				
466/499	0.206G	0.01244	0.006862	0.01363	2	320:
25% ##5	10/40 [00:01<00:05,	5.71it/s]				
466/499	0.206G	0.01483	0.007166	0.01505	2	320:
25% ##5	10/40 [00:01<00:05,	5.71it/s]				
466/499	0.206G	0.01483	0.007166	0.01505	2	320:
28% ##7	11/40 [00:01<00:05,	5.59it/s]				
466/499	0.206G	0.01539	0.007611	0.01589	4	320:
28% ##7	11/40 [00:02<00:05,	5.59it/s]				
466/499	0.206G	0.01539	0.007611	0.01589	4	320:
30% ###	12/40 [00:02<00:05,	5.36it/s]				
466/499	0.206G	0.01571	0.007787	0.01644	4	320:
30% ###	12/40 [00:02<00:05,	5.36it/s]				
466/499	0.206G	0.01571	0.007787	0.01644	4	320:
32% ###2	13/40 [00:02<00:04,	5.49it/s]				
466/499	0.206G	0.01547	0.007721	0.01634	2	320:
32% ###2	13/40 [00:02<00:04,	5.49it/s]				
466/499	0.206G	0.01547	0.007721	0.01634	2	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
466/499	0.206G	0.01549	0.007544	0.01642	1	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
466/499	0.206G	0.01549	0.007544	0.01642	1	320:
38% ###7	15/40 [00:02<00:04,	5.64it/s]				
466/499	0.206G	0.01512	0.007544	0.01641	2	320:
38% ###7	15/40 [00:02<00:04,	5.64it/s]				
466/499	0.206G	0.01512	0.007544	0.01641	2	320:
40% ####	16/40 [00:02<00:04,	5.69it/s]				
466/499	0.206G	0.01668	0.007715	0.017	3	320:
40% ####	16/40 [00:03<00:04,	5.69it/s]				
466/499	0.206G	0.01668	0.007715	0.017	3	320:
42% ####2	17/40 [00:03<00:04,	5.58it/s]				
466/499	0.206G	0.01671	0.008011	0.01736	4	320:
42% ####2	17/40 [00:03<00:04,	5.58it/s]				
466/499	0.206G	0.01671	0.008011	0.01736	4	320:
45% ####5	18/40 [00:03<00:04,	5.50it/s]				

466/499	0.206G	0.01687	0.008389	0.01738	4	320:
45% #####5	18/40 [00:03<00:04,	5.50it/s]				
466/499	0.206G	0.01687	0.008389	0.01738	4	320:
48% #####7	19/40 [00:03<00:03,	5.59it/s]				
466/499	0.206G	0.0167	0.008268	0.01724	1	320:
48% #####7	19/40 [00:03<00:03,	5.59it/s]				
466/499	0.206G	0.0167	0.008268	0.01724	1	320:
50% #####	20/40 [00:03<00:03,	5.66it/s]				
466/499	0.206G	0.01685	0.008716	0.01749	4	320:
50% #####	20/40 [00:03<00:03,	5.66it/s]				
466/499	0.206G	0.01685	0.008716	0.01749	4	320:
52% #####2	21/40 [00:03<00:03,	5.26it/s]				
466/499	0.206G	0.01665	0.008591	0.01752	2	320:
52% #####2	21/40 [00:04<00:03,	5.26it/s]				
466/499	0.206G	0.01665	0.008591	0.01752	2	320:
55% #####5	22/40 [00:04<00:03,	5.28it/s]				
466/499	0.206G	0.01688	0.008716	0.01787	4	320:
55% #####5	22/40 [00:04<00:03,	5.28it/s]				
466/499	0.206G	0.01688	0.008716	0.01787	4	320:
57% #####7	23/40 [00:04<00:03,	5.21it/s]				
466/499	0.206G	0.01667	0.008565	0.01776	2	320:
57% #####7	23/40 [00:04<00:03,	5.21it/s]				
466/499	0.206G	0.01667	0.008565	0.01776	2	320:
60% #####	24/40 [00:04<00:03,	5.31it/s]				
466/499	0.206G	0.01624	0.008392	0.01759	1	320:
60% #####	24/40 [00:04<00:03,	5.31it/s]				
466/499	0.206G	0.01624	0.008392	0.01759	1	320:
62% #####2	25/40 [00:04<00:02,	5.46it/s]				
466/499	0.206G	0.0162	0.008688	0.01768	4	320:
62% #####2	25/40 [00:04<00:02,	5.46it/s]				
466/499	0.206G	0.0162	0.008688	0.01768	4	320:
65% #####5	26/40 [00:04<00:02,	5.49it/s]				
466/499	0.206G	0.01617	0.008559	0.01757	2	320:
65% #####5	26/40 [00:04<00:02,	5.49it/s]				
466/499	0.206G	0.01617	0.008559	0.01757	2	320:
68% #####7	27/40 [00:04<00:02,	5.48it/s]				
466/499	0.206G	0.01587	0.008385	0.01741	1	320:
68% #####7	27/40 [00:05<00:02,	5.48it/s]				
466/499	0.206G	0.01587	0.008385	0.01741	1	320:
70% #####	28/40 [00:05<00:02,	5.58it/s]				
466/499	0.206G	0.01611	0.008231	0.0174	1	320:
70% #####	28/40 [00:05<00:02,	5.58it/s]				
466/499	0.206G	0.01611	0.008231	0.0174	1	320:
72% #####2	29/40 [00:05<00:01,	5.60it/s]				
466/499	0.206G	0.0162	0.008193	0.01732	2	320:
72% #####2	29/40 [00:05<00:01,	5.60it/s]				
466/499	0.206G	0.0162	0.008193	0.01732	2	320:
75% #####5	30/40 [00:05<00:01,	5.70it/s]				

466/499	0.206G	0.01616	0.008164	0.01741	2	320:
75% #####5	30/40 [00:05<00:01,	5.70it/s]				
466/499	0.206G	0.01616	0.008164	0.01741	2	320:
78% #####7	31/40 [00:05<00:01,	5.74it/s]				
466/499	0.206G	0.016	0.008001	0.0173	1	320:
78% #####7	31/40 [00:05<00:01,	5.74it/s]				
466/499	0.206G	0.016	0.008001	0.0173	1	320:
80% #####	32/40 [00:05<00:01,	5.71it/s]				
466/499	0.206G	0.01607	0.00817	0.01751	4	320:
80% #####	32/40 [00:05<00:01,	5.71it/s]				
466/499	0.206G	0.01607	0.00817	0.01751	4	320:
82% #####2	33/40 [00:05<00:01,	5.79it/s]				
466/499	0.206G	0.01597	0.00815	0.01745	2	320:
82% #####2	33/40 [00:06<00:01,	5.79it/s]				
466/499	0.206G	0.01597	0.00815	0.01745	2	320:
85% #####5	34/40 [00:06<00:01,	5.80it/s]				
466/499	0.206G	0.01604	0.008273	0.01749	4	320:
85% #####5	34/40 [00:06<00:01,	5.80it/s]				
466/499	0.206G	0.01604	0.008273	0.01749	4	320:
88% #####7	35/40 [00:06<00:00,	5.60it/s]				
466/499	0.206G	0.0161	0.008397	0.01756	4	320:
88% #####7	35/40 [00:06<00:00,	5.60it/s]				
466/499	0.206G	0.0161	0.008397	0.01756	4	320:
90% #####	36/40 [00:06<00:00,	5.54it/s]				
466/499	0.206G	0.01601	0.008333	0.01742	2	320:
90% #####	36/40 [00:06<00:00,	5.54it/s]				
466/499	0.206G	0.01601	0.008333	0.01742	2	320:
92% #####2	37/40 [00:06<00:00,	5.62it/s]				
466/499	0.206G	0.01598	0.008473	0.01759	4	320:
92% #####2	37/40 [00:06<00:00,	5.62it/s]				
466/499	0.206G	0.01598	0.008473	0.01759	4	320:
95% #####5	38/40 [00:06<00:00,	5.43it/s]				
466/499	0.206G	0.01603	0.008608	0.01757	4	320:
95% #####5	38/40 [00:07<00:00,	5.43it/s]				
466/499	0.206G	0.01603	0.008608	0.01757	4	320:
98% #####7	39/40 [00:07<00:00,	5.48it/s]				
466/499	0.206G	0.01666	0.008598	0.01777	3	320:
98% #####7	39/40 [00:07<00:00,	5.48it/s]				
466/499	0.206G	0.01666	0.008598	0.01777	3	320:
100% #####	40/40 [00:07<00:00,	5.58it/s]				
466/499	0.206G	0.01666	0.008598	0.01777	3	320:
100% #####	40/40 [00:07<00:00,	5.53it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:01,	13.46it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:01, 14.25it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 15.85it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 16.72it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.25it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.49it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 17.74it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 15.80it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 16.50it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.27it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.33it/s]					
	all	40	40	0.962	0.965	0.994	
0.805							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
467/499	0.206G	0.02823	0.01287	0.0231	4	320:
0%	0/40 [00:00<?, ?it/s]					
467/499	0.206G	0.02823	0.01287	0.0231	4	320:
2% 2	1/40 [00:00<00:06, 5.78it/s]					
467/499	0.206G	0.02669	0.01419	0.02553	4	320:
2% 2	1/40 [00:00<00:06, 5.78it/s]					
467/499	0.206G	0.02669	0.01419	0.02553	4	320:
5% 5	2/40 [00:00<00:06, 5.47it/s]					
467/499	0.206G	0.02034	0.01188	0.02144	2	320:
5% 5	2/40 [00:00<00:06, 5.47it/s]					
467/499	0.206G	0.02034	0.01188	0.02144	2	320:
8% 7	3/40 [00:00<00:06, 5.63it/s]					
467/499	0.206G	0.01794	0.01002	0.0199	1	320:
8% 7	3/40 [00:00<00:06, 5.63it/s]					
467/499	0.206G	0.01794	0.01002	0.0199	1	320:
10% #	4/40 [00:00<00:06, 5.64it/s]					
467/499	0.206G	0.0168	0.008715	0.01861	1	320:
10% #	4/40 [00:00<00:06, 5.64it/s]					
467/499	0.206G	0.0168	0.008715	0.01861	1	320:
12% #2	5/40 [00:00<00:06, 5.76it/s]					
467/499	0.206G	0.01794	0.008996	0.02011	4	320:
12% #2	5/40 [00:01<00:06, 5.76it/s]					
467/499	0.206G	0.01794	0.008996	0.02011	4	320:

15% #5	6/40 [00:01<00:06,	5.61it/s]				
467/499	0.206G	0.01677	0.008506	0.02052	1	320:
15% #5	6/40 [00:01<00:06,	5.61it/s]				
467/499	0.206G	0.01677	0.008506	0.02052	1	320:
18% #7	7/40 [00:01<00:05,	5.61it/s]				
467/499	0.206G	0.01769	0.008117	0.01959	2	320:
18% #7	7/40 [00:01<00:05,	5.61it/s]				
467/499	0.206G	0.01769	0.008117	0.01959	2	320:
20% ##	8/40 [00:01<00:05,	5.51it/s]				
467/499	0.206G	0.01698	0.007558	0.01939	1	320:
20% ##	8/40 [00:01<00:05,	5.51it/s]				
467/499	0.206G	0.01698	0.007558	0.01939	1	320:
22% ##2	9/40 [00:01<00:05,	5.65it/s]				
467/499	0.206G	0.0165	0.007254	0.01943	1	320:
22% ##2	9/40 [00:01<00:05,	5.65it/s]				
467/499	0.206G	0.0165	0.007254	0.01943	1	320:
25% ##5	10/40 [00:01<00:05,	5.63it/s]				
467/499	0.206G	0.01547	0.006874	0.01881	1	320:
25% ##5	10/40 [00:01<00:05,	5.63it/s]				
467/499	0.206G	0.01547	0.006874	0.01881	1	320:
28% ##7	11/40 [00:01<00:05,	5.74it/s]				
467/499	0.206G	0.01623	0.007425	0.0191	4	320:
28% ##7	11/40 [00:02<00:05,	5.74it/s]				
467/499	0.206G	0.01623	0.007425	0.0191	4	320:
30% ###	12/40 [00:02<00:05,	5.19it/s]				
467/499	0.206G	0.0176	0.008056	0.01952	4	320:
30% ###	12/40 [00:02<00:05,	5.19it/s]				
467/499	0.206G	0.0176	0.008056	0.01952	4	320:
32% ###2	13/40 [00:02<00:05,	5.36it/s]				
467/499	0.206G	0.01687	0.007759	0.01905	1	320:
32% ###2	13/40 [00:02<00:05,	5.36it/s]				
467/499	0.206G	0.01687	0.007759	0.01905	1	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
467/499	0.206G	0.01688	0.008158	0.01933	4	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
467/499	0.206G	0.01688	0.008158	0.01933	4	320:
38% ###7	15/40 [00:02<00:04,	5.31it/s]				
467/499	0.206G	0.01677	0.007962	0.01896	1	320:
38% ###7	15/40 [00:02<00:04,	5.31it/s]				
467/499	0.206G	0.01677	0.007962	0.01896	1	320:
40% ####	16/40 [00:02<00:04,	5.56it/s]				
467/499	0.206G	0.01669	0.008374	0.01908	4	320:
40% ####	16/40 [00:03<00:04,	5.56it/s]				
467/499	0.206G	0.01669	0.008374	0.01908	4	320:
42% ####2	17/40 [00:03<00:04,	5.49it/s]				
467/499	0.206G	0.0163	0.008176	0.01875	2	320:
42% ####2	17/40 [00:03<00:04,	5.49it/s]				
467/499	0.206G	0.0163	0.008176	0.01875	2	320:

45% #####5	18/40 [00:03<00:03,	5.58it/s]				
467/499	0.206G	0.01808	0.00804	0.01901	2	320:
45% #####5	18/40 [00:03<00:03,	5.58it/s]				
467/499	0.206G	0.01808	0.00804	0.01901	2	320:
48% #####7	19/40 [00:03<00:03,	5.35it/s]				
467/499	0.206G	0.02001	0.008171	0.01913	3	320:
48% #####7	19/40 [00:03<00:03,	5.35it/s]				
467/499	0.206G	0.02001	0.008171	0.01913	3	320:
50% #####	20/40 [00:03<00:03,	5.21it/s]				
467/499	0.206G	0.01949	0.007904	0.01972	1	320:
50% #####	20/40 [00:03<00:03,	5.21it/s]				
467/499	0.206G	0.01949	0.007904	0.01972	1	320:
52% #####2	21/40 [00:03<00:03,	5.52it/s]				
467/499	0.206G	0.0193	0.007777	0.01943	1	320:
52% #####2	21/40 [00:03<00:03,	5.52it/s]				
467/499	0.206G	0.0193	0.007777	0.01943	1	320:
55% #####5	22/40 [00:03<00:03,	5.46it/s]				
467/499	0.206G	0.0191	0.007594	0.01924	1	320:
55% #####5	22/40 [00:04<00:03,	5.46it/s]				
467/499	0.206G	0.0191	0.007594	0.01924	1	320:
57% #####7	23/40 [00:04<00:03,	5.56it/s]				
467/499	0.206G	0.0201	0.007652	0.01909	2	320:
57% #####7	23/40 [00:04<00:03,	5.56it/s]				
467/499	0.206G	0.0201	0.007652	0.01909	2	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
467/499	0.206G	0.01963	0.00753	0.01879	1	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
467/499	0.206G	0.01963	0.00753	0.01879	1	320:
62% #####2	25/40 [00:04<00:02,	5.67it/s]				
467/499	0.206G	0.01933	0.007475	0.0192	1	320:
62% #####2	25/40 [00:04<00:02,	5.67it/s]				
467/499	0.206G	0.01933	0.007475	0.0192	1	320:
65% #####5	26/40 [00:04<00:02,	5.71it/s]				
467/499	0.206G	0.02	0.007517	0.01906	2	320:
65% #####5	26/40 [00:04<00:02,	5.71it/s]				
467/499	0.206G	0.02	0.007517	0.01906	2	320:
68% #####7	27/40 [00:04<00:02,	5.18it/s]				
467/499	0.206G	0.01968	0.007487	0.01894	2	320:
68% #####7	27/40 [00:05<00:02,	5.18it/s]				
467/499	0.206G	0.01968	0.007487	0.01894	2	320:
70% #####	28/40 [00:05<00:02,	5.35it/s]				
467/499	0.206G	0.01965	0.007678	0.01898	4	320:
70% #####	28/40 [00:05<00:02,	5.35it/s]				
467/499	0.206G	0.01965	0.007678	0.01898	4	320:
72% #####2	29/40 [00:05<00:02,	5.09it/s]				
467/499	0.206G	0.02025	0.007724	0.01904	3	320:
72% #####2	29/40 [00:05<00:02,	5.09it/s]				
467/499	0.206G	0.02025	0.007724	0.01904	3	320:

75%	#####5		30/40	[00:05<00:01,	5.03it/s]				
	467/499		0.206G	0.02078	0.007689	0.01888	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.03it/s]				
	467/499		0.206G	0.02078	0.007689	0.01888	2	320:	
78%	#####7		31/40	[00:05<00:01,	4.99it/s]				
	467/499		0.206G	0.0209	0.007611	0.01866	1	320:	
78%	#####7		31/40	[00:05<00:01,	4.99it/s]				
	467/499		0.206G	0.0209	0.007611	0.01866	1	320:	
80%	#####		32/40	[00:05<00:01,	4.97it/s]				
	467/499		0.206G	0.02115	0.007829	0.01898	3	320:	
80%	#####		32/40	[00:06<00:01,	4.97it/s]				
	467/499		0.206G	0.02115	0.007829	0.01898	3	320:	
82%	#####2		33/40	[00:06<00:01,	4.94it/s]				
	467/499		0.206G	0.02073	0.007689	0.0188	1	320:	
82%	#####2		33/40	[00:06<00:01,	4.94it/s]				
	467/499		0.206G	0.02073	0.007689	0.0188	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.05it/s]				
	467/499		0.206G	0.02031	0.007586	0.01861	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.05it/s]				
	467/499		0.206G	0.02031	0.007586	0.01861	1	320:	
88%	#####7		35/40	[00:06<00:01,	4.91it/s]				
	467/499		0.206G	0.02	0.007556	0.01847	2	320:	
88%	#####7		35/40	[00:06<00:01,	4.91it/s]				
	467/499		0.206G	0.02	0.007556	0.01847	2	320:	
90%	#####		36/40	[00:06<00:00,	5.00it/s]				
	467/499		0.206G	0.0198	0.007465	0.01831	1	320:	
90%	#####		36/40	[00:06<00:00,	5.00it/s]				
	467/499		0.206G	0.0198	0.007465	0.01831	1	320:	
92%	#####2		37/40	[00:06<00:00,	4.98it/s]				
	467/499		0.206G	0.02056	0.007549	0.01835	2	320:	
92%	#####2		37/40	[00:07<00:00,	4.98it/s]				
	467/499		0.206G	0.02056	0.007549	0.01835	2	320:	
95%	#####5		38/40	[00:07<00:00,	4.95it/s]				
	467/499		0.206G	0.02054	0.007772	0.01834	4	320:	
95%	#####5		38/40	[00:07<00:00,	4.95it/s]				
	467/499		0.206G	0.02054	0.007772	0.01834	4	320:	
98%	#####7		39/40	[00:07<00:00,	4.83it/s]				
	467/499		0.206G	0.02039	0.007656	0.01828	1	320:	
98%	#####7		39/40	[00:07<00:00,	4.83it/s]				
	467/499		0.206G	0.02039	0.007656	0.01828	1	320:	
100%	#####		40/40	[00:07<00:00,	4.97it/s]				
	467/499		0.206G	0.02039	0.007656	0.01828	1	320:	
100%	#####		40/40	[00:07<00:00,	5.30it/s]				

		Class	Images	Instances	P	R	mAP50
mAP50-95:	0%			0/20	[00:00<?, ?it/s]		
		Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #			2/20	[00:00<00:01, 14.55it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01,	14.36it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00,	15.06it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00,	16.19it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00,	16.73it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00,	16.47it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00,	16.31it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:01<00:00,	15.58it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90% #####		18/20	[00:01<00:00,	16.26it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00,	16.84it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00,	16.18it/s]		
	all	40	40	0.973	0.971	0.993

0.807

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
468/499	0.206G	0.04694	0.01154	0.02176	4	320:
0%	0/40	[00:00<?,	?it/s]			
468/499	0.206G	0.04694	0.01154	0.02176	4	320:
2% 2	1/40	[00:00<00:06,	6.31it/s]			
468/499	0.206G	0.03257	0.007866	0.01841	1	320:
2% 2	1/40	[00:00<00:06,	6.31it/s]			
468/499	0.206G	0.03257	0.007866	0.01841	1	320:
5% 5	2/40	[00:00<00:06,	5.70it/s]			
468/499	0.206G	0.02421	0.007109	0.01903	2	320:
5% 5	2/40	[00:00<00:06,	5.70it/s]			
468/499	0.206G	0.02421	0.007109	0.01903	2	320:
8% 7	3/40	[00:00<00:06,	5.75it/s]			
468/499	0.206G	0.02171	0.007318	0.01752	2	320:
8% 7	3/40	[00:00<00:06,	5.75it/s]			
468/499	0.206G	0.02171	0.007318	0.01752	2	320:
10% #	4/40	[00:00<00:06,	5.56it/s]			
468/499	0.206G	0.02303	0.00888	0.01837	4	320:
10% #	4/40	[00:00<00:06,	5.56it/s]			
468/499	0.206G	0.02303	0.00888	0.01837	4	320:
12% #2	5/40	[00:00<00:06,	5.47it/s]			
468/499	0.206G	0.02085	0.008352	0.01776	2	320:
12% #2	5/40	[00:01<00:06,	5.47it/s]			

468/499	0.206G	0.02085	0.008352	0.01776	2	320:
15% #5	6/40 [00:01<00:06,	5.58it/s]				
468/499	0.206G	0.02107	0.007699	0.01833	1	320:
15% #5	6/40 [00:01<00:06,	5.58it/s]				
468/499	0.206G	0.02107	0.007699	0.01833	1	320:
18% #7	7/40 [00:01<00:05,	5.66it/s]				
468/499	0.206G	0.02005	0.007722	0.01779	3	320:
18% #7	7/40 [00:01<00:05,	5.66it/s]				
468/499	0.206G	0.02005	0.007722	0.01779	3	320:
20% ##	8/40 [00:01<00:05,	5.87it/s]				
468/499	0.206G	0.01904	0.007199	0.01736	1	320:
20% ##	8/40 [00:01<00:05,	5.87it/s]				
468/499	0.206G	0.01904	0.007199	0.01736	1	320:
22% ##2	9/40 [00:01<00:05,	5.69it/s]				
468/499	0.206G	0.0183	0.006993	0.01702	1	320:
22% ##2	9/40 [00:01<00:05,	5.69it/s]				
468/499	0.206G	0.0183	0.006993	0.01702	1	320:
25% ##5	10/40 [00:01<00:05,	5.70it/s]				
468/499	0.206G	0.01937	0.007261	0.01775	2	320:
25% ##5	10/40 [00:01<00:05,	5.70it/s]				
468/499	0.206G	0.01937	0.007261	0.01775	2	320:
28% ##7	11/40 [00:01<00:05,	5.74it/s]				
468/499	0.206G	0.01986	0.00818	0.01812	3	320:
28% ##7	11/40 [00:02<00:05,	5.74it/s]				
468/499	0.206G	0.01986	0.00818	0.01812	3	320:
30% ###	12/40 [00:02<00:04,	5.76it/s]				
468/499	0.206G	0.01991	0.008335	0.01769	2	320:
30% ###	12/40 [00:02<00:04,	5.76it/s]				
468/499	0.206G	0.01991	0.008335	0.01769	2	320:
32% ###2	13/40 [00:02<00:04,	5.77it/s]				
468/499	0.206G	0.01954	0.008521	0.01749	2	320:
32% ###2	13/40 [00:02<00:04,	5.77it/s]				
468/499	0.206G	0.01954	0.008521	0.01749	2	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
468/499	0.206G	0.01879	0.008354	0.01745	2	320:
35% ###5	14/40 [00:02<00:04,	5.63it/s]				
468/499	0.206G	0.01879	0.008354	0.01745	2	320:
38% ###7	15/40 [00:02<00:04,	5.69it/s]				
468/499	0.206G	0.01915	0.008051	0.01747	1	320:
38% ###7	15/40 [00:02<00:04,	5.69it/s]				
468/499	0.206G	0.01915	0.008051	0.01747	1	320:
40% ####	16/40 [00:02<00:04,	5.70it/s]				
468/499	0.206G	0.01863	0.007778	0.01729	1	320:
40% ####	16/40 [00:02<00:04,	5.70it/s]				
468/499	0.206G	0.01863	0.007778	0.01729	1	320:
42% ####2	17/40 [00:02<00:04,	5.73it/s]				
468/499	0.206G	0.01806	0.007533	0.01698	1	320:
42% ####2	17/40 [00:03<00:04,	5.73it/s]				

468/499	0.206G	0.01806	0.007533	0.01698	1	320:
45% #####5	18/40 [00:03<00:03,	5.76it/s]				
468/499	0.206G	0.01845	0.007803	0.01755	4	320:
45% #####5	18/40 [00:03<00:03,	5.76it/s]				
468/499	0.206G	0.01845	0.007803	0.01755	4	320:
48% #####7	19/40 [00:03<00:03,	5.76it/s]				
468/499	0.206G	0.01868	0.007896	0.01751	2	320:
48% #####7	19/40 [00:03<00:03,	5.76it/s]				
468/499	0.206G	0.01868	0.007896	0.01751	2	320:
50% #####	20/40 [00:03<00:03,	5.48it/s]				
468/499	0.206G	0.01885	0.008143	0.01771	4	320:
50% #####	20/40 [00:03<00:03,	5.48it/s]				
468/499	0.206G	0.01885	0.008143	0.01771	4	320:
52% #####2	21/40 [00:03<00:03,	5.43it/s]				
468/499	0.206G	0.01868	0.008208	0.01749	2	320:
52% #####2	21/40 [00:03<00:03,	5.43it/s]				
468/499	0.206G	0.01868	0.008208	0.01749	2	320:
55% #####5	22/40 [00:03<00:03,	5.54it/s]				
468/499	0.206G	0.01917	0.008378	0.01768	4	320:
55% #####5	22/40 [00:04<00:03,	5.54it/s]				
468/499	0.206G	0.01917	0.008378	0.01768	4	320:
57% #####7	23/40 [00:04<00:03,	5.34it/s]				
468/499	0.206G	0.02055	0.008467	0.01826	4	320:
57% #####7	23/40 [00:04<00:03,	5.34it/s]				
468/499	0.206G	0.02055	0.008467	0.01826	4	320:
60% #####	24/40 [00:04<00:02,	5.46it/s]				
468/499	0.206G	0.02005	0.008525	0.0181	2	320:
60% #####	24/40 [00:04<00:02,	5.46it/s]				
468/499	0.206G	0.02005	0.008525	0.0181	2	320:
62% #####2	25/40 [00:04<00:02,	5.41it/s]				
468/499	0.206G	0.02079	0.008524	0.01828	3	320:
62% #####2	25/40 [00:04<00:02,	5.41it/s]				
468/499	0.206G	0.02079	0.008524	0.01828	3	320:
65% #####5	26/40 [00:04<00:02,	5.25it/s]				
468/499	0.206G	0.02106	0.008743	0.01834	4	320:
65% #####5	26/40 [00:04<00:02,	5.25it/s]				
468/499	0.206G	0.02106	0.008743	0.01834	4	320:
68% #####7	27/40 [00:04<00:02,	5.27it/s]				
468/499	0.206G	0.02118	0.008747	0.01823	2	320:
68% #####7	27/40 [00:05<00:02,	5.27it/s]				
468/499	0.206G	0.02118	0.008747	0.01823	2	320:
70% #####	28/40 [00:05<00:02,	5.41it/s]				
468/499	0.206G	0.02166	0.008928	0.01876	2	320:
70% #####	28/40 [00:05<00:02,	5.41it/s]				
468/499	0.206G	0.02166	0.008928	0.01876	2	320:
72% #####2	29/40 [00:05<00:02,	5.39it/s]				
468/499	0.206G	0.02253	0.008818	0.01861	2	320:
72% #####2	29/40 [00:05<00:02,	5.39it/s]				

468/499	0.206G	0.02253	0.008818	0.01861	2	320:
75% #####5	30/40 [00:05<00:01,	5.49it/s]				
468/499	0.206G	0.02249	0.009109	0.01872	4	320:
75% #####5	30/40 [00:05<00:01,	5.49it/s]				
468/499	0.206G	0.02249	0.009109	0.01872	4	320:
78% #####7	31/40 [00:05<00:01,	5.44it/s]				
468/499	0.206G	0.02346	0.008962	0.01881	2	320:
78% #####7	31/40 [00:05<00:01,	5.44it/s]				
468/499	0.206G	0.02346	0.008962	0.01881	2	320:
80% #####	32/40 [00:05<00:01,	5.23it/s]				
468/499	0.206G	0.02309	0.008852	0.01875	2	320:
80% #####	32/40 [00:05<00:01,	5.23it/s]				
468/499	0.206G	0.02309	0.008852	0.01875	2	320:
82% #####2	33/40 [00:05<00:01,	5.42it/s]				
468/499	0.206G	0.02277	0.008782	0.01864	2	320:
82% #####2	33/40 [00:06<00:01,	5.42it/s]				
468/499	0.206G	0.02277	0.008782	0.01864	2	320:
85% #####5	34/40 [00:06<00:01,	5.54it/s]				
468/499	0.206G	0.02308	0.009052	0.01892	4	320:
85% #####5	34/40 [00:06<00:01,	5.54it/s]				
468/499	0.206G	0.02308	0.009052	0.01892	4	320:
88% #####7	35/40 [00:06<00:00,	5.62it/s]				
468/499	0.206G	0.02265	0.009042	0.01887	2	320:
88% #####7	35/40 [00:06<00:00,	5.62it/s]				
468/499	0.206G	0.02265	0.009042	0.01887	2	320:
90% #####	36/40 [00:06<00:00,	5.13it/s]				
468/499	0.206G	0.0223	0.009143	0.01875	4	320:
90% #####	36/40 [00:06<00:00,	5.13it/s]				
468/499	0.206G	0.0223	0.009143	0.01875	4	320:
92% #####2	37/40 [00:06<00:00,	5.32it/s]				
468/499	0.206G	0.02254	0.009109	0.01864	2	320:
92% #####2	37/40 [00:06<00:00,	5.32it/s]				
468/499	0.206G	0.02254	0.009109	0.01864	2	320:
95% #####5	38/40 [00:06<00:00,	5.46it/s]				
468/499	0.206G	0.02252	0.009075	0.01876	2	320:
95% #####5	38/40 [00:07<00:00,	5.46it/s]				
468/499	0.206G	0.02252	0.009075	0.01876	2	320:
98% #####7	39/40 [00:07<00:00,	5.26it/s]				
468/499	0.206G	0.02257	0.009036	0.01872	2	320:
98% #####7	39/40 [00:07<00:00,	5.26it/s]				
468/499	0.206G	0.02257	0.009036	0.01872	2	320:
100% #####	40/40 [00:07<00:00,	5.41it/s]				
468/499	0.206G	0.02257	0.009036	0.01872	2	320:
100% #####	40/40 [00:07<00:00,	5.52it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	10% #	2/20 [00:00<00:00, 18.27it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	20% ##	4/20 [00:00<00:00, 16.81it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 16.42it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 17.11it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 15.94it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 15.82it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 16.60it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 17.10it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 17.46it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.70it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.02it/s]					
	all	40	40	0.985	0.975	0.993	
0.807							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
469/499	0.206G	0.02322	0.01143	0.01808	4	320:
0%	0/40 [00:00<?, ?it/s]					
469/499	0.206G	0.02322	0.01143	0.01808	4	320:
2% 2	1/40 [00:00<00:06, 5.82it/s]					
469/499	0.206G	0.02077	0.01175	0.01688	2	320:
2% 2	1/40 [00:00<00:06, 5.82it/s]					
469/499	0.206G	0.02077	0.01175	0.01688	2	320:
5% 5	2/40 [00:00<00:07, 5.25it/s]					
469/499	0.206G	0.02357	0.0138	0.02043	4	320:
5% 5	2/40 [00:00<00:07, 5.25it/s]					
469/499	0.206G	0.02357	0.0138	0.02043	4	320:
8% 7	3/40 [00:00<00:06, 5.29it/s]					
469/499	0.206G	0.02711	0.01216	0.02626	2	320:
8% 7	3/40 [00:00<00:06, 5.29it/s]					
469/499	0.206G	0.02711	0.01216	0.02626	2	320:
10% #	4/40 [00:00<00:07, 5.14it/s]					
469/499	0.206G	0.02314	0.01024	0.02343	1	320:
10% #	4/40 [00:00<00:07, 5.14it/s]					
469/499	0.206G	0.02314	0.01024	0.02343	1	320:
12% #2	5/40 [00:00<00:06, 5.34it/s]					
469/499	0.206G	0.02081	0.00916	0.02189	1	320:

12% #2	5/40 [00:01<00:06,	5.34it/s]				
469/499	0.206G	0.02081	0.00916	0.02189	1	320:
15% #5	6/40 [00:01<00:06,	5.66it/s]				
469/499	0.206G	0.02066	0.009977	0.02156	4	320:
15% #5	6/40 [00:01<00:06,	5.66it/s]				
469/499	0.206G	0.02066	0.009977	0.02156	4	320:
18% #7	7/40 [00:01<00:06,	5.39it/s]				
469/499	0.206G	0.0196	0.009659	0.02066	2	320:
18% #7	7/40 [00:01<00:06,	5.39it/s]				
469/499	0.206G	0.0196	0.009659	0.02066	2	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
469/499	0.206G	0.019	0.009353	0.02029	2	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
469/499	0.206G	0.019	0.009353	0.02029	2	320:
22% ##2	9/40 [00:01<00:05,	5.60it/s]				
469/499	0.206G	0.01866	0.009193	0.0198	2	320:
22% ##2	9/40 [00:01<00:05,	5.60it/s]				
469/499	0.206G	0.01866	0.009193	0.0198	2	320:
25% ##5	10/40 [00:01<00:05,	5.66it/s]				
469/499	0.206G	0.01811	0.009476	0.01963	4	320:
25% ##5	10/40 [00:01<00:05,	5.66it/s]				
469/499	0.206G	0.01811	0.009476	0.01963	4	320:
28% ##7	11/40 [00:01<00:05,	5.69it/s]				
469/499	0.206G	0.01731	0.009047	0.02029	1	320:
28% ##7	11/40 [00:02<00:05,	5.69it/s]				
469/499	0.206G	0.01731	0.009047	0.02029	1	320:
30% ###	12/40 [00:02<00:05,	5.58it/s]				
469/499	0.206G	0.01651	0.008574	0.02064	1	320:
30% ###	12/40 [00:02<00:05,	5.58it/s]				
469/499	0.206G	0.01651	0.008574	0.02064	1	320:
32% ###2	13/40 [00:02<00:04,	5.50it/s]				
469/499	0.206G	0.0159	0.00824	0.02043	1	320:
32% ###2	13/40 [00:02<00:04,	5.50it/s]				
469/499	0.206G	0.0159	0.00824	0.02043	1	320:
35% ###5	14/40 [00:02<00:04,	5.57it/s]				
469/499	0.206G	0.01819	0.008234	0.02009	2	320:
35% ###5	14/40 [00:02<00:04,	5.57it/s]				
469/499	0.206G	0.01819	0.008234	0.02009	2	320:
38% ###7	15/40 [00:02<00:04,	5.49it/s]				
469/499	0.206G	0.01809	0.008532	0.02051	4	320:
38% ###7	15/40 [00:02<00:04,	5.49it/s]				
469/499	0.206G	0.01809	0.008532	0.02051	4	320:
40% ####	16/40 [00:02<00:04,	5.44it/s]				
469/499	0.206G	0.01765	0.008298	0.02022	1	320:
40% ####	16/40 [00:03<00:04,	5.44it/s]				
469/499	0.206G	0.01765	0.008298	0.02022	1	320:
42% ####2	17/40 [00:03<00:04,	5.28it/s]				
469/499	0.206G	0.01898	0.008211	0.02046	4	320:

42% ####2	17/40 [00:03<00:04,	5.28it/s]				
469/499	0.206G	0.01898	0.008211	0.02046	4	320:
45% ####5	18/40 [00:03<00:04,	5.17it/s]				
469/499	0.206G	0.01831	0.007969	0.02004	1	320:
45% ####5	18/40 [00:03<00:04,	5.17it/s]				
469/499	0.206G	0.01831	0.007969	0.02004	1	320:
48% ####7	19/40 [00:03<00:04,	5.03it/s]				
469/499	0.206G	0.01787	0.007737	0.01966	1	320:
48% ####7	19/40 [00:03<00:04,	5.03it/s]				
469/499	0.206G	0.01787	0.007737	0.01966	1	320:
50% #####	20/40 [00:03<00:03,	5.03it/s]				
469/499	0.206G	0.01734	0.007499	0.01942	1	320:
50% #####	20/40 [00:03<00:03,	5.03it/s]				
469/499	0.206G	0.01734	0.007499	0.01942	1	320:
52% #####2	21/40 [00:03<00:03,	5.11it/s]				
469/499	0.206G	0.01694	0.007276	0.01916	1	320:
52% #####2	21/40 [00:04<00:03,	5.11it/s]				
469/499	0.206G	0.01694	0.007276	0.01916	1	320:
55% #####5	22/40 [00:04<00:03,	5.04it/s]				
469/499	0.206G	0.01885	0.007325	0.01965	3	320:
55% #####5	22/40 [00:04<00:03,	5.04it/s]				
469/499	0.206G	0.01885	0.007325	0.01965	3	320:
57% #####7	23/40 [00:04<00:03,	5.01it/s]				
469/499	0.206G	0.01843	0.007305	0.01937	2	320:
57% #####7	23/40 [00:04<00:03,	5.01it/s]				
469/499	0.206G	0.01843	0.007305	0.01937	2	320:
60% #####	24/40 [00:04<00:03,	4.98it/s]				
469/499	0.206G	0.01851	0.007297	0.01944	2	320:
60% #####	24/40 [00:04<00:03,	4.98it/s]				
469/499	0.206G	0.01851	0.007297	0.01944	2	320:
62% #####2	25/40 [00:04<00:02,	5.07it/s]				
469/499	0.206G	0.01846	0.007203	0.01954	2	320:
62% #####2	25/40 [00:04<00:02,	5.07it/s]				
469/499	0.206G	0.01846	0.007203	0.01954	2	320:
65% #####5	26/40 [00:04<00:02,	5.14it/s]				
469/499	0.206G	0.01805	0.007086	0.01957	1	320:
65% #####5	26/40 [00:05<00:02,	5.14it/s]				
469/499	0.206G	0.01805	0.007086	0.01957	1	320:
68% #####7	27/40 [00:05<00:02,	5.07it/s]				
469/499	0.206G	0.01771	0.007034	0.01938	2	320:
68% #####7	27/40 [00:05<00:02,	5.07it/s]				
469/499	0.206G	0.01771	0.007034	0.01938	2	320:
70% #####	28/40 [00:05<00:02,	5.02it/s]				
469/499	0.206G	0.01738	0.006889	0.01929	1	320:
70% #####	28/40 [00:05<00:02,	5.02it/s]				
469/499	0.206G	0.01738	0.006889	0.01929	1	320:
72% #####2	29/40 [00:05<00:02,	4.99it/s]				
469/499	0.206G	0.0176	0.007083	0.01925	4	320:

72%	#####2		29/40	[00:05<00:02,	4.99it/s]				
	469/499		0.206G	0.0176	0.007083	0.01925	4	320:	
75%	#####5		30/40	[00:05<00:02,	4.86it/s]				
	469/499		0.206G	0.01735	0.007203	0.01904	2	320:	
75%	#####5		30/40	[00:05<00:02,	4.86it/s]				
	469/499		0.206G	0.01735	0.007203	0.01904	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.11it/s]				
	469/499		0.206G	0.01845	0.007332	0.01918	2	320:	
78%	#####7		31/40	[00:06<00:01,	5.11it/s]				
	469/499		0.206G	0.01845	0.007332	0.01918	2	320:	
80%	#####		32/40	[00:06<00:01,	4.84it/s]				
	469/499		0.206G	0.01848	0.00724	0.01903	1	320:	
80%	#####		32/40	[00:06<00:01,	4.84it/s]				
	469/499		0.206G	0.01848	0.00724	0.01903	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.18it/s]				
	469/499		0.206G	0.0182	0.007128	0.01877	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.18it/s]				
	469/499		0.206G	0.0182	0.007128	0.01877	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.36it/s]				
	469/499		0.206G	0.01903	0.007141	0.01864	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.36it/s]				
	469/499		0.206G	0.01903	0.007141	0.01864	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.47it/s]				
	469/499		0.206G	0.01878	0.007054	0.01863	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.47it/s]				
	469/499		0.206G	0.01878	0.007054	0.01863	2	320:	
90%	#####		36/40	[00:06<00:00,	5.57it/s]				
	469/499		0.206G	0.01882	0.007349	0.01859	4	320:	
90%	#####		36/40	[00:07<00:00,	5.57it/s]				
	469/499		0.206G	0.01882	0.007349	0.01859	4	320:	
92%	#####2		37/40	[00:07<00:00,	5.31it/s]				
	469/499		0.206G	0.01882	0.007444	0.01867	4	320:	
92%	#####2		37/40	[00:07<00:00,	5.31it/s]				
	469/499		0.206G	0.01882	0.007444	0.01867	4	320:	
95%	#####5		38/40	[00:07<00:00,	5.24it/s]				
	469/499		0.206G	0.01865	0.007335	0.01852	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.24it/s]				
	469/499		0.206G	0.01865	0.007335	0.01852	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.37it/s]				
	469/499		0.206G	0.01855	0.007467	0.01888	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.37it/s]				
	469/499		0.206G	0.01855	0.007467	0.01888	4	320:	
100%	#####		40/40	[00:07<00:00,	5.36it/s]				
	469/499		0.206G	0.01855	0.007467	0.01888	4	320:	
100%	#####		40/40	[00:07<00:00,	5.27it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 14.16it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 16.26it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 16.14it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 16.92it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 17.39it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 17.68it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 70% #####		14/20	[00:00<00:00, 17.87it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 80% #####		16/20	[00:00<00:00, 17.23it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 90% #####		18/20	[00:01<00:00, 17.55it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.84it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.98it/s]			
	all	40	40	0.985	0.975	0.993

0.807

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
470/499	0.206G	0.00934	0.004615	0.0144	1	320:
0%		0/40	[00:00<?, ?it/s]			
470/499	0.206G	0.00934	0.004615	0.0144	1	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
470/499	0.206G	0.009674	0.004146	0.01384	1	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
470/499	0.206G	0.009674	0.004146	0.01384	1	320:
5% 5		2/40	[00:00<00:06, 5.64it/s]			
470/499	0.206G	0.01374	0.007764	0.01545	4	320:
5% 5		2/40	[00:00<00:06, 5.64it/s]			
470/499	0.206G	0.01374	0.007764	0.01545	4	320:
8% 7		3/40	[00:00<00:06, 5.55it/s]			
470/499	0.206G	0.01414	0.006726	0.01537	1	320:
8% 7		3/40	[00:00<00:06, 5.55it/s]			
470/499	0.206G	0.01414	0.006726	0.01537	1	320:
10% #		4/40	[00:00<00:06, 5.65it/s]			
470/499	0.206G	0.01337	0.006479	0.01502	1	320:
10% #		4/40	[00:00<00:06, 5.65it/s]			
470/499	0.206G	0.01337	0.006479	0.01502	1	320:
12% #2		5/40	[00:00<00:05, 5.86it/s]			

470/499	0.206G	0.01453	0.006377	0.01465	1	320:
12% #2	5/40 [00:01<00:05,	5.86it/s]				
470/499	0.206G	0.01453	0.006377	0.01465	1	320:
15% #5	6/40 [00:01<00:05,	5.84it/s]				
470/499	0.206G	0.01422	0.006068	0.0148	1	320:
15% #5	6/40 [00:01<00:05,	5.84it/s]				
470/499	0.206G	0.01422	0.006068	0.0148	1	320:
18% #7	7/40 [00:01<00:05,	6.02it/s]				
470/499	0.206G	0.01597	0.005756	0.01463	1	320:
18% #7	7/40 [00:01<00:05,	6.02it/s]				
470/499	0.206G	0.01597	0.005756	0.01463	1	320:
20% ##	8/40 [00:01<00:05,	5.77it/s]				
470/499	0.206G	0.0166	0.006126	0.01469	2	320:
20% ##	8/40 [00:01<00:05,	5.77it/s]				
470/499	0.206G	0.0166	0.006126	0.01469	2	320:
22% ##2	9/40 [00:01<00:05,	5.63it/s]				
470/499	0.206G	0.01718	0.006632	0.01539	4	320:
22% ##2	9/40 [00:01<00:05,	5.63it/s]				
470/499	0.206G	0.01718	0.006632	0.01539	4	320:
25% ##5	10/40 [00:01<00:05,	5.68it/s]				
470/499	0.206G	0.0188	0.0068	0.01634	2	320:
25% ##5	10/40 [00:01<00:05,	5.68it/s]				
470/499	0.206G	0.0188	0.0068	0.01634	2	320:
28% ##7	11/40 [00:01<00:05,	5.57it/s]				
470/499	0.206G	0.01797	0.006464	0.01633	1	320:
28% ##7	11/40 [00:02<00:05,	5.57it/s]				
470/499	0.206G	0.01797	0.006464	0.01633	1	320:
30% ###	12/40 [00:02<00:04,	5.64it/s]				
470/499	0.206G	0.01953	0.006871	0.01702	2	320:
30% ###	12/40 [00:02<00:04,	5.64it/s]				
470/499	0.206G	0.01953	0.006871	0.01702	2	320:
32% ###2	13/40 [00:02<00:04,	5.40it/s]				
470/499	0.206G	0.0196	0.006879	0.01807	2	320:
32% ###2	13/40 [00:02<00:04,	5.40it/s]				
470/499	0.206G	0.0196	0.006879	0.01807	2	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
470/499	0.206G	0.01967	0.00687	0.01817	1	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
470/499	0.206G	0.01967	0.00687	0.01817	1	320:
38% ###7	15/40 [00:02<00:04,	5.44it/s]				
470/499	0.206G	0.01998	0.006887	0.01829	2	320:
38% ###7	15/40 [00:02<00:04,	5.44it/s]				
470/499	0.206G	0.01998	0.006887	0.01829	2	320:
40% ####	16/40 [00:02<00:04,	5.40it/s]				
470/499	0.206G	0.02054	0.007216	0.01864	4	320:
40% ####	16/40 [00:03<00:04,	5.40it/s]				
470/499	0.206G	0.02054	0.007216	0.01864	4	320:
42% ####2	17/40 [00:03<00:04,	5.52it/s]				

470/499	0.206G	0.02109	0.007666	0.01892	4	320:
42% #####2	17/40 [00:03<00:04,	5.52it/s]				
470/499	0.206G	0.02109	0.007666	0.01892	4	320:
45% #####5	18/40 [00:03<00:03,	5.60it/s]				
470/499	0.206G	0.021	0.007986	0.01884	4	320:
45% #####5	18/40 [00:03<00:03,	5.60it/s]				
470/499	0.206G	0.021	0.007986	0.01884	4	320:
48% #####7	19/40 [00:03<00:03,	5.35it/s]				
470/499	0.206G	0.02028	0.007712	0.01844	1	320:
48% #####7	19/40 [00:03<00:03,	5.35it/s]				
470/499	0.206G	0.02028	0.007712	0.01844	1	320:
50% #####	20/40 [00:03<00:03,	5.10it/s]				
470/499	0.206G	0.01974	0.007472	0.01831	1	320:
50% #####	20/40 [00:03<00:03,	5.10it/s]				
470/499	0.206G	0.01974	0.007472	0.01831	1	320:
52% #####2	21/40 [00:03<00:03,	5.43it/s]				
470/499	0.206G	0.02049	0.007802	0.01857	3	320:
52% #####2	21/40 [00:03<00:03,	5.43it/s]				
470/499	0.206G	0.02049	0.007802	0.01857	3	320:
55% #####5	22/40 [00:03<00:03,	5.26it/s]				
470/499	0.206G	0.02102	0.00782	0.01879	3	320:
55% #####5	22/40 [00:04<00:03,	5.26it/s]				
470/499	0.206G	0.02102	0.00782	0.01879	3	320:
57% #####7	23/40 [00:04<00:03,	5.41it/s]				
470/499	0.206G	0.02061	0.007647	0.01852	1	320:
57% #####7	23/40 [00:04<00:03,	5.41it/s]				
470/499	0.206G	0.02061	0.007647	0.01852	1	320:
60% #####	24/40 [00:04<00:02,	5.52it/s]				
470/499	0.206G	0.02034	0.007691	0.01825	2	320:
60% #####	24/40 [00:04<00:02,	5.52it/s]				
470/499	0.206G	0.02034	0.007691	0.01825	2	320:
62% #####2	25/40 [00:04<00:02,	5.61it/s]				
470/499	0.206G	0.02011	0.00755	0.01814	1	320:
62% #####2	25/40 [00:04<00:02,	5.61it/s]				
470/499	0.206G	0.02011	0.00755	0.01814	1	320:
65% #####5	26/40 [00:04<00:02,	5.52it/s]				
470/499	0.206G	0.01997	0.007778	0.01812	4	320:
65% #####5	26/40 [00:04<00:02,	5.52it/s]				
470/499	0.206G	0.01997	0.007778	0.01812	4	320:
68% #####7	27/40 [00:04<00:02,	5.61it/s]				
470/499	0.206G	0.02012	0.007729	0.01843	2	320:
68% #####7	27/40 [00:05<00:02,	5.61it/s]				
470/499	0.206G	0.02012	0.007729	0.01843	2	320:
70% #####	28/40 [00:05<00:02,	5.49it/s]				
470/499	0.206G	0.01975	0.00768	0.01833	2	320:
70% #####	28/40 [00:05<00:02,	5.49it/s]				
470/499	0.206G	0.01975	0.00768	0.01833	2	320:
72% #####2	29/40 [00:05<00:01,	5.59it/s]				

470/499	0.206G	0.01992	0.008072	0.01835	4	320:
72% #####2	29/40 [00:05<00:01,	5.59it/s]				
470/499	0.206G	0.01992	0.008072	0.01835	4	320:
75% #####5	30/40 [00:05<00:01,	5.37it/s]				
470/499	0.206G	0.01952	0.00799	0.01833	2	320:
75% #####5	30/40 [00:05<00:01,	5.37it/s]				
470/499	0.206G	0.01952	0.00799	0.01833	2	320:
78% #####7	31/40 [00:05<00:01,	5.47it/s]				
470/499	0.206G	0.02021	0.008285	0.01858	4	320:
78% #####7	31/40 [00:05<00:01,	5.47it/s]				
470/499	0.206G	0.02021	0.008285	0.01858	4	320:
80% #####	32/40 [00:05<00:01,	5.57it/s]				
470/499	0.206G	0.02073	0.008411	0.01856	4	320:
80% #####	32/40 [00:05<00:01,	5.57it/s]				
470/499	0.206G	0.02073	0.008411	0.01856	4	320:
82% #####2	33/40 [00:05<00:01,	5.49it/s]				
470/499	0.206G	0.02043	0.008273	0.01846	1	320:
82% #####2	33/40 [00:06<00:01,	5.49it/s]				
470/499	0.206G	0.02043	0.008273	0.01846	1	320:
85% #####5	34/40 [00:06<00:01,	5.58it/s]				
470/499	0.206G	0.02038	0.008272	0.01832	2	320:
85% #####5	34/40 [00:06<00:01,	5.58it/s]				
470/499	0.206G	0.02038	0.008272	0.01832	2	320:
88% #####7	35/40 [00:06<00:00,	5.51it/s]				
470/499	0.206G	0.02013	0.008149	0.01822	1	320:
88% #####7	35/40 [00:06<00:00,	5.51it/s]				
470/499	0.206G	0.02013	0.008149	0.01822	1	320:
90% #####	36/40 [00:06<00:00,	5.60it/s]				
470/499	0.206G	0.02014	0.0083	0.01819	4	320:
90% #####	36/40 [00:06<00:00,	5.60it/s]				
470/499	0.206G	0.02014	0.0083	0.01819	4	320:
92% #####2	37/40 [00:06<00:00,	5.36it/s]				
470/499	0.206G	0.02063	0.0086	0.01841	4	320:
92% #####2	37/40 [00:06<00:00,	5.36it/s]				
470/499	0.206G	0.02063	0.0086	0.01841	4	320:
95% #####5	38/40 [00:06<00:00,	5.35it/s]				
470/499	0.206G	0.02042	0.008531	0.01834	1	320:
95% #####5	38/40 [00:07<00:00,	5.35it/s]				
470/499	0.206G	0.02042	0.008531	0.01834	1	320:
98% #####7	39/40 [00:07<00:00,	5.34it/s]				
470/499	0.206G	0.02018	0.008439	0.01834	2	320:
98% #####7	39/40 [00:07<00:00,	5.34it/s]				
470/499	0.206G	0.02018	0.008439	0.01834	2	320:
100% #####	40/40 [00:07<00:00,	5.47it/s]				
470/499	0.206G	0.02018	0.008439	0.01834	2	320:
100% #####	40/40 [00:07<00:00,	5.52it/s]				

Class	Images	Instances	P	R	mAP50
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mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:00, 18.28it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20 [00:00<00:00, 18.28it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20 [00:00<00:00, 18.28it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20 [00:00<00:00, 18.12it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20 [00:00<00:00, 15.76it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20 [00:00<00:00, 16.52it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20 [00:00<00:00, 16.35it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20 [00:00<00:00, 16.79it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20 [00:01<00:00, 17.69it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.45it/s]				
	all	40	40	0.98	0.975	0.992
0.791						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
471/499	0.206G	0.05054	0.008832	0.04122	2	320:
0%	0/40 [00:00<?, ?it/s]					
471/499	0.206G	0.05054	0.008832	0.04122	2	320:
2% 2	1/40 [00:00<00:06, 5.84it/s]					
471/499	0.206G	0.03599	0.007212	0.02763	1	320:
2% 2	1/40 [00:00<00:06, 5.84it/s]					
471/499	0.206G	0.03599	0.007212	0.02763	1	320:
5% 5	2/40 [00:00<00:06, 5.83it/s]					
471/499	0.206G	0.03049	0.006985	0.02374	2	320:
5% 5	2/40 [00:00<00:06, 5.83it/s]					
471/499	0.206G	0.03049	0.006985	0.02374	2	320:
8% 7	3/40 [00:00<00:06, 5.56it/s]					
471/499	0.206G	0.02577	0.006171	0.02197	1	320:
8% 7	3/40 [00:00<00:06, 5.56it/s]					
471/499	0.206G	0.02577	0.006171	0.02197	1	320:
10% #	4/40 [00:00<00:06, 5.66it/s]					
471/499	0.206G	0.0262	0.00769	0.0212	4	320:
10% #	4/40 [00:00<00:06, 5.66it/s]					
471/499	0.206G	0.0262	0.00769	0.0212	4	320:
12% #2	5/40 [00:00<00:06, 5.72it/s]					
471/499	0.206G	0.02531	0.008819	0.02054	4	320:

12% #2	5/40 [00:01<00:06,	5.72it/s]				
471/499	0.206G	0.02531	0.008819	0.02054	4	320:
15% #5	6/40 [00:01<00:06,	5.42it/s]				
471/499	0.206G	0.02423	0.01009	0.0197	4	320:
15% #5	6/40 [00:01<00:06,	5.42it/s]				
471/499	0.206G	0.02423	0.01009	0.0197	4	320:
18% #7	7/40 [00:01<00:06,	4.98it/s]				
471/499	0.206G	0.02366	0.01011	0.01995	2	320:
18% #7	7/40 [00:01<00:06,	4.98it/s]				
471/499	0.206G	0.02366	0.01011	0.01995	2	320:
20% ##	8/40 [00:01<00:06,	4.94it/s]				
471/499	0.206G	0.02376	0.01088	0.02071	4	320:
20% ##	8/40 [00:01<00:06,	4.94it/s]				
471/499	0.206G	0.02376	0.01088	0.02071	4	320:
22% ##2	9/40 [00:01<00:06,	4.82it/s]				
471/499	0.206G	0.02336	0.01106	0.02056	4	320:
22% ##2	9/40 [00:01<00:06,	4.82it/s]				
471/499	0.206G	0.02336	0.01106	0.02056	4	320:
25% ##5	10/40 [00:01<00:06,	4.97it/s]				
471/499	0.206G	0.02214	0.0105	0.02008	1	320:
25% ##5	10/40 [00:02<00:06,	4.97it/s]				
471/499	0.206G	0.02214	0.0105	0.02008	1	320:
28% ##7	11/40 [00:02<00:05,	4.93it/s]				
471/499	0.206G	0.02133	0.01018	0.02033	2	320:
28% ##7	11/40 [00:02<00:05,	4.93it/s]				
471/499	0.206G	0.02133	0.01018	0.02033	2	320:
30% ###	12/40 [00:02<00:05,	4.93it/s]				
471/499	0.206G	0.0204	0.009605	0.01975	1	320:
30% ###	12/40 [00:02<00:05,	4.93it/s]				
471/499	0.206G	0.0204	0.009605	0.01975	1	320:
32% ###2	13/40 [00:02<00:05,	5.13it/s]				
471/499	0.206G	0.02003	0.009434	0.01925	2	320:
32% ###2	13/40 [00:02<00:05,	5.13it/s]				
471/499	0.206G	0.02003	0.009434	0.01925	2	320:
35% ###5	14/40 [00:02<00:05,	5.07it/s]				
471/499	0.206G	0.01982	0.00943	0.02002	4	320:
35% ###5	14/40 [00:02<00:05,	5.07it/s]				
471/499	0.206G	0.01982	0.00943	0.02002	4	320:
38% ###7	15/40 [00:02<00:04,	5.15it/s]				
471/499	0.206G	0.01954	0.00923	0.01942	1	320:
38% ###7	15/40 [00:03<00:04,	5.15it/s]				
471/499	0.206G	0.01954	0.00923	0.01942	1	320:
40% ####	16/40 [00:03<00:04,	5.08it/s]				
471/499	0.206G	0.0195	0.009506	0.01954	4	320:
40% ####	16/40 [00:03<00:04,	5.08it/s]				
471/499	0.206G	0.0195	0.009506	0.01954	4	320:
42% ####2	17/40 [00:03<00:04,	5.02it/s]				
471/499	0.206G	0.02061	0.009406	0.01961	2	320:

42% ####2	17/40 [00:03<00:04,	5.02it/s]				
471/499	0.206G	0.02061	0.009406	0.01961	2	320:
45% ####5	18/40 [00:03<00:04,	4.99it/s]				
471/499	0.206G	0.02027	0.00972	0.01938	4	320:
45% ####5	18/40 [00:03<00:04,	4.99it/s]				
471/499	0.206G	0.02027	0.00972	0.01938	4	320:
48% ####7	19/40 [00:03<00:04,	4.97it/s]				
471/499	0.206G	0.02026	0.01009	0.0197	4	320:
48% ####7	19/40 [00:03<00:04,	4.97it/s]				
471/499	0.206G	0.02026	0.01009	0.0197	4	320:
50% #####	20/40 [00:03<00:04,	4.73it/s]				
471/499	0.206G	0.02061	0.01024	0.01969	4	320:
50% #####	20/40 [00:04<00:04,	4.73it/s]				
471/499	0.206G	0.02061	0.01024	0.01969	4	320:
52% #####2	21/40 [00:04<00:03,	4.90it/s]				
471/499	0.206G	0.02045	0.01035	0.01989	4	320:
52% #####2	21/40 [00:04<00:03,	4.90it/s]				
471/499	0.206G	0.02045	0.01035	0.01989	4	320:
55% #####5	22/40 [00:04<00:03,	5.01it/s]				
471/499	0.206G	0.02072	0.01037	0.01988	3	320:
55% #####5	22/40 [00:04<00:03,	5.01it/s]				
471/499	0.206G	0.02072	0.01037	0.01988	3	320:
57% #####7	23/40 [00:04<00:03,	5.10it/s]				
471/499	0.206G	0.0204	0.01006	0.0197	1	320:
57% #####7	23/40 [00:04<00:03,	5.10it/s]				
471/499	0.206G	0.0204	0.01006	0.0197	1	320:
60% #####	24/40 [00:04<00:03,	5.16it/s]				
471/499	0.206G	0.01987	0.009831	0.01943	1	320:
60% #####	24/40 [00:04<00:03,	5.16it/s]				
471/499	0.206G	0.01987	0.009831	0.01943	1	320:
62% #####2	25/40 [00:04<00:02,	5.33it/s]				
471/499	0.206G	0.01944	0.009584	0.01921	1	320:
62% #####2	25/40 [00:05<00:02,	5.33it/s]				
471/499	0.206G	0.01944	0.009584	0.01921	1	320:
65% #####5	26/40 [00:05<00:02,	5.33it/s]				
471/499	0.206G	0.01917	0.00935	0.01903	1	320:
65% #####5	26/40 [00:05<00:02,	5.33it/s]				
471/499	0.206G	0.01917	0.00935	0.01903	1	320:
68% #####7	27/40 [00:05<00:02,	5.32it/s]				
471/499	0.206G	0.02048	0.009358	0.01902	3	320:
68% #####7	27/40 [00:05<00:02,	5.32it/s]				
471/499	0.206G	0.02048	0.009358	0.01902	3	320:
70% #####	28/40 [00:05<00:02,	5.31it/s]				
471/499	0.206G	0.02041	0.009446	0.01895	4	320:
70% #####	28/40 [00:05<00:02,	5.31it/s]				
471/499	0.206G	0.02041	0.009446	0.01895	4	320:
72% #####2	29/40 [00:05<00:02,	5.20it/s]				
471/499	0.206G	0.02042	0.009605	0.01894	4	320:

72%	#####2		29/40	[00:05<00:02,	5.20it/s]				
	471/499		0.206G	0.02042	0.009605	0.01894	4	320:	
75%	#####5		30/40	[00:05<00:01,	5.35it/s]				
	471/499		0.206G	0.02115	0.009662	0.01916	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.35it/s]				
	471/499		0.206G	0.02115	0.009662	0.01916	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.48it/s]				
	471/499		0.206G	0.02192	0.009595	0.0191	2	320:	
78%	#####7		31/40	[00:06<00:01,	5.48it/s]				
	471/499		0.206G	0.02192	0.009595	0.0191	2	320:	
80%	#####		32/40	[00:06<00:01,	5.44it/s]				
	471/499		0.206G	0.02319	0.009485	0.0191	2	320:	
80%	#####		32/40	[00:06<00:01,	5.44it/s]				
	471/499		0.206G	0.02319	0.009485	0.0191	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.54it/s]				
	471/499		0.206G	0.02288	0.009406	0.01946	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.54it/s]				
	471/499		0.206G	0.02288	0.009406	0.01946	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.34it/s]				
	471/499		0.206G	0.02277	0.009558	0.01946	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.34it/s]				
	471/499		0.206G	0.02277	0.009558	0.01946	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.34it/s]				
	471/499		0.206G	0.02258	0.00948	0.01933	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.34it/s]				
	471/499		0.206G	0.02258	0.00948	0.01933	2	320:	
90%	#####		36/40	[00:06<00:00,	5.59it/s]				
	471/499		0.206G	0.02265	0.009423	0.01926	2	320:	
90%	#####		36/40	[00:07<00:00,	5.59it/s]				
	471/499		0.206G	0.02265	0.009423	0.01926	2	320:	
92%	#####2		37/40	[00:07<00:00,	5.66it/s]				
	471/499		0.206G	0.02244	0.009252	0.01924	1	320:	
92%	#####2		37/40	[00:07<00:00,	5.66it/s]				
	471/499		0.206G	0.02244	0.009252	0.01924	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.70it/s]				
	471/499		0.206G	0.02202	0.009102	0.01917	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.70it/s]				
	471/499		0.206G	0.02202	0.009102	0.01917	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.87it/s]				
	471/499		0.206G	0.02199	0.009018	0.01903	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.87it/s]				
	471/499		0.206G	0.02199	0.009018	0.01903	2	320:	
100%	#####		40/40	[00:07<00:00,	5.70it/s]				
	471/499		0.206G	0.02199	0.009018	0.01903	2	320:	
100%	#####		40/40	[00:07<00:00,	5.27it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20	[00:00<00:01,	16.00it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:01,	16.00it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	15.01it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	15.39it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	15.60it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	15.10it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	15.96it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	16.64it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	17.12it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.57it/s]		
	all	40	40	0.98	0.975	0.992

0.791

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
472/499	0.206G	0.005587	0.002557	0.01384	1	320:
0%	0/40	[00:00<?,	?it/s]			
472/499	0.206G	0.005587	0.002557	0.01384	1	320:
2% 2	1/40	[00:00<00:06,	5.81it/s]			
472/499	0.206G	0.008506	0.004682	0.0164	2	320:
2% 2	1/40	[00:00<00:06,	5.81it/s]			
472/499	0.206G	0.008506	0.004682	0.0164	2	320:
5% 5	2/40	[00:00<00:06,	5.76it/s]			
472/499	0.206G	0.01017	0.004171	0.01317	1	320:
5% 5	2/40	[00:00<00:06,	5.76it/s]			
472/499	0.206G	0.01017	0.004171	0.01317	1	320:
8% 7	3/40	[00:00<00:06,	6.04it/s]			
472/499	0.206G	0.009686	0.003894	0.01413	1	320:
8% 7	3/40	[00:00<00:06,	6.04it/s]			
472/499	0.206G	0.009686	0.003894	0.01413	1	320:
10% #	4/40	[00:00<00:06,	5.54it/s]			
472/499	0.206G	0.01082	0.004833	0.01542	2	320:
10% #	4/40	[00:00<00:06,	5.54it/s]			
472/499	0.206G	0.01082	0.004833	0.01542	2	320:
12% #2	5/40	[00:00<00:06,	5.62it/s]			
472/499	0.206G	0.01029	0.004464	0.01481	1	320:
12% #2	5/40	[00:01<00:06,	5.62it/s]			

472/499	0.206G	0.01029	0.004464	0.01481	1	320:
15% #5	6/40 [00:01<00:06,	5.36it/s]				
472/499	0.206G	0.0115	0.00429	0.01506	1	320:
15% #5	6/40 [00:01<00:06,	5.36it/s]				
472/499	0.206G	0.0115	0.00429	0.01506	1	320:
18% #7	7/40 [00:01<00:05,	5.66it/s]				
472/499	0.206G	0.01278	0.004892	0.01872	2	320:
18% #7	7/40 [00:01<00:05,	5.66it/s]				
472/499	0.206G	0.01278	0.004892	0.01872	2	320:
20% ##	8/40 [00:01<00:05,	5.35it/s]				
472/499	0.206G	0.01434	0.004958	0.01866	1	320:
20% ##	8/40 [00:01<00:05,	5.35it/s]				
472/499	0.206G	0.01434	0.004958	0.01866	1	320:
22% ##2	9/40 [00:01<00:05,	5.66it/s]				
472/499	0.206G	0.01384	0.005019	0.01885	1	320:
22% ##2	9/40 [00:01<00:05,	5.66it/s]				
472/499	0.206G	0.01384	0.005019	0.01885	1	320:
25% ##5	10/40 [00:01<00:05,	5.70it/s]				
472/499	0.206G	0.01336	0.004945	0.01818	1	320:
25% ##5	10/40 [00:01<00:05,	5.70it/s]				
472/499	0.206G	0.01336	0.004945	0.01818	1	320:
28% ##7	11/40 [00:01<00:05,	5.49it/s]				
472/499	0.206G	0.0157	0.005393	0.01837	4	320:
28% ##7	11/40 [00:02<00:05,	5.49it/s]				
472/499	0.206G	0.0157	0.005393	0.01837	4	320:
30% ###	12/40 [00:02<00:05,	5.52it/s]				
472/499	0.206G	0.01515	0.005368	0.01794	1	320:
30% ###	12/40 [00:02<00:05,	5.52it/s]				
472/499	0.206G	0.01515	0.005368	0.01794	1	320:
32% ###2	13/40 [00:02<00:04,	5.61it/s]				
472/499	0.206G	0.01623	0.006051	0.01903	4	320:
32% ###2	13/40 [00:02<00:04,	5.61it/s]				
472/499	0.206G	0.01623	0.006051	0.01903	4	320:
35% ###5	14/40 [00:02<00:04,	5.39it/s]				
472/499	0.206G	0.01702	0.006695	0.0194	4	320:
35% ###5	14/40 [00:02<00:04,	5.39it/s]				
472/499	0.206G	0.01702	0.006695	0.0194	4	320:
38% ###7	15/40 [00:02<00:04,	5.51it/s]				
472/499	0.206G	0.0167	0.006474	0.0192	1	320:
38% ###7	15/40 [00:02<00:04,	5.51it/s]				
472/499	0.206G	0.0167	0.006474	0.0192	1	320:
40% ####	16/40 [00:02<00:04,	5.60it/s]				
472/499	0.206G	0.01635	0.006507	0.01881	2	320:
40% ####	16/40 [00:03<00:04,	5.60it/s]				
472/499	0.206G	0.01635	0.006507	0.01881	2	320:
42% ####2	17/40 [00:03<00:04,	5.50it/s]				
472/499	0.206G	0.01589	0.006507	0.01858	2	320:
42% ####2	17/40 [00:03<00:04,	5.50it/s]				

472/499	0.206G	0.01589	0.006507	0.01858	2	320:
45% #####5	18/40 [00:03<00:03,	5.74it/s]				
472/499	0.206G	0.01611	0.006953	0.01848	2	320:
45% #####5	18/40 [00:03<00:03,	5.74it/s]				
472/499	0.206G	0.01611	0.006953	0.01848	2	320:
48% #####7	19/40 [00:03<00:03,	5.61it/s]				
472/499	0.206G	0.01561	0.006722	0.01811	1	320:
48% #####7	19/40 [00:03<00:03,	5.61it/s]				
472/499	0.206G	0.01561	0.006722	0.01811	1	320:
50% #####	20/40 [00:03<00:03,	5.65it/s]				
472/499	0.206G	0.01529	0.006697	0.01814	2	320:
50% #####	20/40 [00:03<00:03,	5.65it/s]				
472/499	0.206G	0.01529	0.006697	0.01814	2	320:
52% #####2	21/40 [00:03<00:03,	5.70it/s]				
472/499	0.206G	0.01591	0.006779	0.01825	2	320:
52% #####2	21/40 [00:03<00:03,	5.70it/s]				
472/499	0.206G	0.01591	0.006779	0.01825	2	320:
55% #####5	22/40 [00:03<00:03,	5.30it/s]				
472/499	0.206G	0.017	0.007033	0.01875	2	320:
55% #####5	22/40 [00:04<00:03,	5.30it/s]				
472/499	0.206G	0.017	0.007033	0.01875	2	320:
57% #####7	23/40 [00:04<00:03,	5.43it/s]				
472/499	0.206G	0.01845	0.007124	0.01866	2	320:
57% #####7	23/40 [00:04<00:03,	5.43it/s]				
472/499	0.206G	0.01845	0.007124	0.01866	2	320:
60% #####	24/40 [00:04<00:02,	5.40it/s]				
472/499	0.206G	0.01813	0.007055	0.01856	1	320:
60% #####	24/40 [00:04<00:02,	5.40it/s]				
472/499	0.206G	0.01813	0.007055	0.01856	1	320:
62% #####2	25/40 [00:04<00:02,	5.51it/s]				
472/499	0.206G	0.01782	0.006922	0.01842	1	320:
62% #####2	25/40 [00:04<00:02,	5.51it/s]				
472/499	0.206G	0.01782	0.006922	0.01842	1	320:
65% #####5	26/40 [00:04<00:02,	5.59it/s]				
472/499	0.206G	0.01747	0.006783	0.01846	1	320:
65% #####5	26/40 [00:04<00:02,	5.59it/s]				
472/499	0.206G	0.01747	0.006783	0.01846	1	320:
68% #####7	27/40 [00:04<00:02,	5.66it/s]				
472/499	0.206G	0.01721	0.00663	0.01816	1	320:
68% #####7	27/40 [00:05<00:02,	5.66it/s]				
472/499	0.206G	0.01721	0.00663	0.01816	1	320:
70% #####	28/40 [00:05<00:02,	5.70it/s]				
472/499	0.206G	0.01728	0.006808	0.01815	4	320:
70% #####	28/40 [00:05<00:02,	5.70it/s]				
472/499	0.206G	0.01728	0.006808	0.01815	4	320:
72% #####2	29/40 [00:05<00:01,	5.58it/s]				
472/499	0.206G	0.01694	0.006697	0.01793	1	320:
72% #####2	29/40 [00:05<00:01,	5.58it/s]				

472/499	0.206G	0.01694	0.006697	0.01793	1	320:
75% #####5	30/40 [00:05<00:01,	5.81it/s]				
472/499	0.206G	0.01721	0.007131	0.01795	4	320:
75% #####5	30/40 [00:05<00:01,	5.81it/s]				
472/499	0.206G	0.01721	0.007131	0.01795	4	320:
78% #####7	31/40 [00:05<00:01,	5.66it/s]				
472/499	0.206G	0.01753	0.007321	0.01824	4	320:
78% #####7	31/40 [00:05<00:01,	5.66it/s]				
472/499	0.206G	0.01753	0.007321	0.01824	4	320:
80% #####	32/40 [00:05<00:01,	5.54it/s]				
472/499	0.206G	0.01813	0.007555	0.01822	4	320:
80% #####	32/40 [00:05<00:01,	5.54it/s]				
472/499	0.206G	0.01813	0.007555	0.01822	4	320:
82% #####2	33/40 [00:05<00:01,	5.47it/s]				
472/499	0.206G	0.01773	0.007434	0.01809	1	320:
82% #####2	33/40 [00:06<00:01,	5.47it/s]				
472/499	0.206G	0.01773	0.007434	0.01809	1	320:
85% #####5	34/40 [00:06<00:01,	5.43it/s]				
472/499	0.206G	0.01759	0.007356	0.01807	1	320:
85% #####5	34/40 [00:06<00:01,	5.43it/s]				
472/499	0.206G	0.01759	0.007356	0.01807	1	320:
88% #####7	35/40 [00:06<00:00,	5.66it/s]				
472/499	0.206G	0.01759	0.007376	0.01824	2	320:
88% #####7	35/40 [00:06<00:00,	5.66it/s]				
472/499	0.206G	0.01759	0.007376	0.01824	2	320:
90% #####	36/40 [00:06<00:00,	5.71it/s]				
472/499	0.206G	0.01736	0.007449	0.01815	4	320:
90% #####	36/40 [00:06<00:00,	5.71it/s]				
472/499	0.206G	0.01736	0.007449	0.01815	4	320:
92% #####2	37/40 [00:06<00:00,	5.74it/s]				
472/499	0.206G	0.01719	0.007424	0.01829	2	320:
92% #####2	37/40 [00:06<00:00,	5.74it/s]				
472/499	0.206G	0.01719	0.007424	0.01829	2	320:
95% #####5	38/40 [00:06<00:00,	5.59it/s]				
472/499	0.206G	0.01761	0.007558	0.01825	4	320:
95% #####5	38/40 [00:07<00:00,	5.59it/s]				
472/499	0.206G	0.01761	0.007558	0.01825	4	320:
98% #####7	39/40 [00:07<00:00,	5.33it/s]				
472/499	0.206G	0.01756	0.007639	0.01835	4	320:
98% #####7	39/40 [00:07<00:00,	5.33it/s]				
472/499	0.206G	0.01756	0.007639	0.01835	4	320:
100% #####	40/40 [00:07<00:00,	5.37it/s]				
472/499	0.206G	0.01756	0.007639	0.01835	4	320:
100% #####	40/40 [00:07<00:00,	5.56it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	10% #	2/20 [00:00<00:01, 15.80it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	20% ##	4/20 [00:00<00:00, 17.17it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 16.62it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 17.24it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 16.96it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 16.43it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 16.29it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 16.87it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 15.29it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 15.48it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.15it/s]					
	all	40	40	0.98	0.975	0.993	
0.79							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
473/499	0.206G	0.03503	0.008045	0.0316	3	320:
0%	0/40 [00:00<?, ?it/s]					
473/499	0.206G	0.03503	0.008045	0.0316	3	320:
2% 2	1/40 [00:00<00:07, 5.44it/s]					
473/499	0.206G	0.02859	0.006243	0.02551	1	320:
2% 2	1/40 [00:00<00:07, 5.44it/s]					
473/499	0.206G	0.02859	0.006243	0.02551	1	320:
5% 5	2/40 [00:00<00:07, 5.12it/s]					
473/499	0.206G	0.02263	0.007833	0.02184	4	320:
5% 5	2/40 [00:00<00:07, 5.12it/s]					
473/499	0.206G	0.02263	0.007833	0.02184	4	320:
8% 7	3/40 [00:00<00:07, 5.19it/s]					
473/499	0.206G	0.0289	0.008884	0.02136	3	320:
8% 7	3/40 [00:00<00:07, 5.19it/s]					
473/499	0.206G	0.0289	0.008884	0.02136	3	320:
10% #	4/40 [00:00<00:07, 5.08it/s]					
473/499	0.206G	0.0266	0.01011	0.0199	4	320:
10% #	4/40 [00:00<00:07, 5.08it/s]					
473/499	0.206G	0.0266	0.01011	0.0199	4	320:
12% #2	5/40 [00:00<00:07, 4.88it/s]					
473/499	0.206G	0.03051	0.01057	0.0199	4	320:

12% #2	5/40 [00:01<00:07,	4.88it/s]				
473/499	0.206G	0.03051	0.01057	0.0199	4	320:
15% #5	6/40 [00:01<00:06,	4.89it/s]				
473/499	0.206G	0.02749	0.009836	0.01929	2	320:
15% #5	6/40 [00:01<00:06,	4.89it/s]				
473/499	0.206G	0.02749	0.009836	0.01929	2	320:
18% #7	7/40 [00:01<00:06,	4.90it/s]				
473/499	0.206G	0.0253	0.009084	0.01875	1	320:
18% #7	7/40 [00:01<00:06,	4.90it/s]				
473/499	0.206G	0.0253	0.009084	0.01875	1	320:
20% ##	8/40 [00:01<00:06,	4.91it/s]				
473/499	0.206G	0.02469	0.01026	0.01879	4	320:
20% ##	8/40 [00:01<00:06,	4.91it/s]				
473/499	0.206G	0.02469	0.01026	0.01879	4	320:
22% ##2	9/40 [00:01<00:06,	4.91it/s]				
473/499	0.206G	0.02434	0.01016	0.01938	2	320:
22% ##2	9/40 [00:01<00:06,	4.91it/s]				
473/499	0.206G	0.02434	0.01016	0.01938	2	320:
25% ##5	10/40 [00:01<00:05,	5.03it/s]				
473/499	0.206G	0.02297	0.009755	0.01897	2	320:
25% ##5	10/40 [00:02<00:05,	5.03it/s]				
473/499	0.206G	0.02297	0.009755	0.01897	2	320:
28% ##7	11/40 [00:02<00:05,	5.11it/s]				
473/499	0.206G	0.02227	0.009226	0.01878	1	320:
28% ##7	11/40 [00:02<00:05,	5.11it/s]				
473/499	0.206G	0.02227	0.009226	0.01878	1	320:
30% ###	12/40 [00:02<00:05,	5.30it/s]				
473/499	0.206G	0.02419	0.009316	0.0186	3	320:
30% ###	12/40 [00:02<00:05,	5.30it/s]				
473/499	0.206G	0.02419	0.009316	0.0186	3	320:
32% ###2	13/40 [00:02<00:05,	5.31it/s]				
473/499	0.206G	0.0251	0.01004	0.01852	4	320:
32% ###2	13/40 [00:02<00:05,	5.31it/s]				
473/499	0.206G	0.0251	0.01004	0.01852	4	320:
35% ###5	14/40 [00:02<00:04,	5.30it/s]				
473/499	0.206G	0.02467	0.01026	0.01876	4	320:
35% ###5	14/40 [00:02<00:04,	5.30it/s]				
473/499	0.206G	0.02467	0.01026	0.01876	4	320:
38% ###7	15/40 [00:02<00:04,	5.31it/s]				
473/499	0.206G	0.02406	0.01024	0.01871	2	320:
38% ###7	15/40 [00:03<00:04,	5.31it/s]				
473/499	0.206G	0.02406	0.01024	0.01871	2	320:
40% ####	16/40 [00:03<00:04,	5.32it/s]				
473/499	0.206G	0.02387	0.01071	0.01873	4	320:
40% ####	16/40 [00:03<00:04,	5.32it/s]				
473/499	0.206G	0.02387	0.01071	0.01873	4	320:
42% ####2	17/40 [00:03<00:04,	5.30it/s]				
473/499	0.206G	0.02341	0.01044	0.01845	1	320:

42% ####2	17/40 [00:03<00:04,	5.30it/s]				
473/499	0.206G	0.02341	0.01044	0.01845	1	320:
45% ####5	18/40 [00:03<00:04,	5.45it/s]				
473/499	0.206G	0.0243	0.01072	0.01881	3	320:
45% ####5	18/40 [00:03<00:04,	5.45it/s]				
473/499	0.206G	0.0243	0.01072	0.01881	3	320:
48% ####7	19/40 [00:03<00:03,	5.55it/s]				
473/499	0.206G	0.02605	0.01048	0.02026	2	320:
48% ####7	19/40 [00:03<00:03,	5.55it/s]				
473/499	0.206G	0.02605	0.01048	0.02026	2	320:
50% #####	20/40 [00:03<00:03,	5.47it/s]				
473/499	0.206G	0.02541	0.01016	0.01986	1	320:
50% #####	20/40 [00:04<00:03,	5.47it/s]				
473/499	0.206G	0.02541	0.01016	0.01986	1	320:
52% #####2	21/40 [00:04<00:03,	5.57it/s]				
473/499	0.206G	0.02491	0.009977	0.01973	2	320:
52% #####2	21/40 [00:04<00:03,	5.57it/s]				
473/499	0.206G	0.02491	0.009977	0.01973	2	320:
55% #####5	22/40 [00:04<00:03,	5.64it/s]				
473/499	0.206G	0.02435	0.009791	0.01944	2	320:
55% #####5	22/40 [00:04<00:03,	5.64it/s]				
473/499	0.206G	0.02435	0.009791	0.01944	2	320:
57% #####7	23/40 [00:04<00:03,	5.55it/s]				
473/499	0.206G	0.02414	0.009697	0.01931	2	320:
57% #####7	23/40 [00:04<00:03,	5.55it/s]				
473/499	0.206G	0.02414	0.009697	0.01931	2	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
473/499	0.206G	0.02369	0.009611	0.01913	2	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
473/499	0.206G	0.02369	0.009611	0.01913	2	320:
62% #####2	25/40 [00:04<00:02,	5.84it/s]				
473/499	0.206G	0.02313	0.009372	0.01895	1	320:
62% #####2	25/40 [00:04<00:02,	5.84it/s]				
473/499	0.206G	0.02313	0.009372	0.01895	1	320:
65% #####5	26/40 [00:04<00:02,	5.81it/s]				
473/499	0.206G	0.02252	0.009257	0.01894	2	320:
65% #####5	26/40 [00:05<00:02,	5.81it/s]				
473/499	0.206G	0.02252	0.009257	0.01894	2	320:
68% #####7	27/40 [00:05<00:02,	5.81it/s]				
473/499	0.206G	0.02193	0.00904	0.01867	1	320:
68% #####7	27/40 [00:05<00:02,	5.81it/s]				
473/499	0.206G	0.02193	0.00904	0.01867	1	320:
70% #####	28/40 [00:05<00:02,	5.24it/s]				
473/499	0.206G	0.02173	0.00926	0.01866	4	320:
70% #####	28/40 [00:05<00:02,	5.24it/s]				
473/499	0.206G	0.02173	0.00926	0.01866	4	320:
72% #####2	29/40 [00:05<00:01,	5.51it/s]				
473/499	0.206G	0.02148	0.009098	0.0184	1	320:

72%	#####2		29/40	[00:05<00:01,	5.51it/s]						
	473/499		0.206G	0.02148	0.009098	0.0184	1	320:			
75%	#####5		30/40	[00:05<00:01,	5.45it/s]						
	473/499		0.206G	0.02165	0.009013	0.01846	2	320:			
75%	#####5		30/40	[00:05<00:01,	5.45it/s]						
	473/499		0.206G	0.02165	0.009013	0.01846	2	320:			
78%	#####7		31/40	[00:05<00:01,	5.71it/s]						
	473/499		0.206G	0.02145	0.008869	0.01841	1	320:			
78%	#####7		31/40	[00:05<00:01,	5.71it/s]						
	473/499		0.206G	0.02145	0.008869	0.01841	1	320:			
80%	#####		32/40	[00:05<00:01,	5.44it/s]						
	473/499		0.206G	0.02246	0.008775	0.0185	2	320:			
80%	#####		32/40	[00:06<00:01,	5.44it/s]						
	473/499		0.206G	0.02246	0.008775	0.0185	2	320:			
82%	#####2		33/40	[00:06<00:01,	5.41it/s]						
	473/499		0.206G	0.02258	0.008883	0.01855	4	320:			
82%	#####2		33/40	[00:06<00:01,	5.41it/s]						
	473/499		0.206G	0.02258	0.008883	0.01855	4	320:			
85%	#####5		34/40	[00:06<00:01,	5.30it/s]						
	473/499		0.206G	0.02212	0.008714	0.01842	1	320:			
85%	#####5		34/40	[00:06<00:01,	5.30it/s]						
	473/499		0.206G	0.02212	0.008714	0.01842	1	320:			
88%	#####7		35/40	[00:06<00:00,	5.51it/s]						
	473/499		0.206G	0.02236	0.008901	0.01845	4	320:			
88%	#####7		35/40	[00:06<00:00,	5.51it/s]						
	473/499		0.206G	0.02236	0.008901	0.01845	4	320:			
90%	#####		36/40	[00:06<00:00,	5.32it/s]						
	473/499		0.206G	0.022	0.008871	0.01835	2	320:			
90%	#####		36/40	[00:06<00:00,	5.32it/s]						
	473/499		0.206G	0.022	0.008871	0.01835	2	320:			
92%	#####2		37/40	[00:06<00:00,	5.46it/s]						
	473/499		0.206G	0.02268	0.009018	0.01833	4	320:			
92%	#####2		37/40	[00:07<00:00,	5.46it/s]						
	473/499		0.206G	0.02268	0.009018	0.01833	4	320:			
95%	#####5		38/40	[00:07<00:00,	5.42it/s]						
	473/499		0.206G	0.02307	0.008972	0.0183	2	320:			
95%	#####5		38/40	[00:07<00:00,	5.42it/s]						
	473/499		0.206G	0.02307	0.008972	0.0183	2	320:			
98%	#####7		39/40	[00:07<00:00,	5.39it/s]						
	473/499		0.206G	0.02292	0.008932	0.01829	2	320:			
98%	#####7		39/40	[00:07<00:00,	5.39it/s]						
	473/499		0.206G	0.02292	0.008932	0.01829	2	320:			
100%	#####		40/40	[00:07<00:00,	5.64it/s]						
	473/499		0.206G	0.02292	0.008932	0.01829	2	320:			
100%	#####		40/40	[00:07<00:00,	5.37it/s]						

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20	[00:00<00:01,	17.91it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:01,	15.53it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	16.68it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.78it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	17.74it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	17.92it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	18.04it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	18.12it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	17.37it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.70it/s]		
	all	40	40	0.979	0.975	0.992

0.796

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
474/499	0.206G	0.02608	0.005533	0.0175	2	320:
0%	0/40	[00:00<?,	?it/s]			
474/499	0.206G	0.02608	0.005533	0.0175	2	320:
2% 2	1/40	[00:00<00:06,	5.74it/s]			
474/499	0.206G	0.03531	0.006746	0.01693	2	320:
2% 2	1/40	[00:00<00:06,	5.74it/s]			
474/499	0.206G	0.03531	0.006746	0.01693	2	320:
5% 5	2/40	[00:00<00:06,	5.79it/s]			
474/499	0.206G	0.04418	0.006716	0.01844	2	320:
5% 5	2/40	[00:00<00:06,	5.79it/s]			
474/499	0.206G	0.04418	0.006716	0.01844	2	320:
8% 7	3/40	[00:00<00:06,	5.80it/s]			
474/499	0.206G	0.03565	0.00595	0.01704	1	320:
8% 7	3/40	[00:00<00:06,	5.80it/s]			
474/499	0.206G	0.03565	0.00595	0.01704	1	320:
10% #	4/40	[00:00<00:06,	5.81it/s]			
474/499	0.206G	0.03226	0.007026	0.01714	4	320:
10% #	4/40	[00:00<00:06,	5.81it/s]			
474/499	0.206G	0.03226	0.007026	0.01714	4	320:
12% #2	5/40	[00:00<00:06,	5.63it/s]			
474/499	0.206G	0.03165	0.008069	0.01922	4	320:
12% #2	5/40	[00:01<00:06,	5.63it/s]			

474/499	0.206G	0.03165	0.008069	0.01922	4	320:
15% #5	6/40 [00:01<00:05,	5.69it/s]				
474/499	0.206G	0.03074	0.008275	0.02026	4	320:
15% #5	6/40 [00:01<00:05,	5.69it/s]				
474/499	0.206G	0.03074	0.008275	0.02026	4	320:
18% #7	7/40 [00:01<00:05,	5.55it/s]				
474/499	0.206G	0.03373	0.008635	0.01977	2	320:
18% #7	7/40 [00:01<00:05,	5.55it/s]				
474/499	0.206G	0.03373	0.008635	0.01977	2	320:
20% ##	8/40 [00:01<00:05,	5.63it/s]				
474/499	0.206G	0.03292	0.009178	0.01983	4	320:
20% ##	8/40 [00:01<00:05,	5.63it/s]				
474/499	0.206G	0.03292	0.009178	0.01983	4	320:
22% ##2	9/40 [00:01<00:05,	5.53it/s]				
474/499	0.206G	0.03168	0.009052	0.01943	2	320:
22% ##2	9/40 [00:01<00:05,	5.53it/s]				
474/499	0.206G	0.03168	0.009052	0.01943	2	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
474/499	0.206G	0.03129	0.009015	0.02086	2	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
474/499	0.206G	0.03129	0.009015	0.02086	2	320:
28% ##7	11/40 [00:01<00:05,	5.65it/s]				
474/499	0.206G	0.03295	0.008874	0.02039	2	320:
28% ##7	11/40 [00:02<00:05,	5.65it/s]				
474/499	0.206G	0.03295	0.008874	0.02039	2	320:
30% ###	12/40 [00:02<00:04,	5.70it/s]				
474/499	0.206G	0.03104	0.008454	0.01962	1	320:
30% ###	12/40 [00:02<00:04,	5.70it/s]				
474/499	0.206G	0.03104	0.008454	0.01962	1	320:
32% ###2	13/40 [00:02<00:04,	5.58it/s]				
474/499	0.206G	0.03009	0.008325	0.01946	2	320:
32% ###2	13/40 [00:02<00:04,	5.58it/s]				
474/499	0.206G	0.03009	0.008325	0.01946	2	320:
35% ###5	14/40 [00:02<00:04,	5.36it/s]				
474/499	0.206G	0.03049	0.008908	0.02005	4	320:
35% ###5	14/40 [00:02<00:04,	5.36it/s]				
474/499	0.206G	0.03049	0.008908	0.02005	4	320:
38% ###7	15/40 [00:02<00:04,	5.35it/s]				
474/499	0.206G	0.03015	0.008834	0.01969	2	320:
38% ###7	15/40 [00:02<00:04,	5.35it/s]				
474/499	0.206G	0.03015	0.008834	0.01969	2	320:
40% ####	16/40 [00:02<00:04,	5.32it/s]				
474/499	0.206G	0.02876	0.008553	0.01927	1	320:
40% ####	16/40 [00:03<00:04,	5.32it/s]				
474/499	0.206G	0.02876	0.008553	0.01927	1	320:
42% ####2	17/40 [00:03<00:04,	5.46it/s]				
474/499	0.206G	0.02778	0.008397	0.01925	2	320:
42% ####2	17/40 [00:03<00:04,	5.46it/s]				

474/499	0.206G	0.02778	0.008397	0.01925	2	320:
45% #####5	18/40 [00:03<00:03,	5.54it/s]				
474/499	0.206G	0.02704	0.008149	0.01933	1	320:
45% #####5	18/40 [00:03<00:03,	5.54it/s]				
474/499	0.206G	0.02704	0.008149	0.01933	1	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
474/499	0.206G	0.02698	0.008409	0.01913	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
474/499	0.206G	0.02698	0.008409	0.01913	4	320:
50% #####	20/40 [00:03<00:03,	5.46it/s]				
474/499	0.206G	0.0266	0.008459	0.01922	4	320:
50% #####	20/40 [00:03<00:03,	5.46it/s]				
474/499	0.206G	0.0266	0.008459	0.01922	4	320:
52% #####2	21/40 [00:03<00:03,	5.42it/s]				
474/499	0.206G	0.02694	0.00841	0.01931	2	320:
52% #####2	21/40 [00:03<00:03,	5.42it/s]				
474/499	0.206G	0.02694	0.00841	0.01931	2	320:
55% #####5	22/40 [00:03<00:03,	5.51it/s]				
474/499	0.206G	0.02642	0.008157	0.01916	1	320:
55% #####5	22/40 [00:04<00:03,	5.51it/s]				
474/499	0.206G	0.02642	0.008157	0.01916	1	320:
57% #####7	23/40 [00:04<00:02,	5.75it/s]				
474/499	0.206G	0.02723	0.008171	0.01909	2	320:
57% #####7	23/40 [00:04<00:02,	5.75it/s]				
474/499	0.206G	0.02723	0.008171	0.01909	2	320:
60% #####	24/40 [00:04<00:03,	5.31it/s]				
474/499	0.206G	0.02748	0.008431	0.01903	4	320:
60% #####	24/40 [00:04<00:03,	5.31it/s]				
474/499	0.206G	0.02748	0.008431	0.01903	4	320:
62% #####2	25/40 [00:04<00:02,	5.31it/s]				
474/499	0.206G	0.02675	0.008243	0.01889	1	320:
62% #####2	25/40 [00:04<00:02,	5.31it/s]				
474/499	0.206G	0.02675	0.008243	0.01889	1	320:
65% #####5	26/40 [00:04<00:02,	5.46it/s]				
474/499	0.206G	0.02603	0.008056	0.01858	1	320:
65% #####5	26/40 [00:04<00:02,	5.46it/s]				
474/499	0.206G	0.02603	0.008056	0.01858	1	320:
68% #####7	27/40 [00:04<00:02,	5.55it/s]				
474/499	0.206G	0.02671	0.008023	0.01843	2	320:
68% #####7	27/40 [00:05<00:02,	5.55it/s]				
474/499	0.206G	0.02671	0.008023	0.01843	2	320:
70% #####	28/40 [00:05<00:02,	5.48it/s]				
474/499	0.206G	0.02612	0.007854	0.01827	1	320:
70% #####	28/40 [00:05<00:02,	5.48it/s]				
474/499	0.206G	0.02612	0.007854	0.01827	1	320:
72% #####2	29/40 [00:05<00:01,	5.58it/s]				
474/499	0.206G	0.02562	0.00771	0.01812	1	320:
72% #####2	29/40 [00:05<00:01,	5.58it/s]				

474/499	0.206G	0.02562	0.00771	0.01812	1	320:
75% #####5	30/40 [00:05<00:01,	5.62it/s]				
474/499	0.206G	0.02516	0.007549	0.01806	1	320:
75% #####5	30/40 [00:05<00:01,	5.62it/s]				
474/499	0.206G	0.02516	0.007549	0.01806	1	320:
78% #####7	31/40 [00:05<00:01,	5.63it/s]				
474/499	0.206G	0.02505	0.007495	0.01789	1	320:
78% #####7	31/40 [00:05<00:01,	5.63it/s]				
474/499	0.206G	0.02505	0.007495	0.01789	1	320:
80% #####	32/40 [00:05<00:01,	5.73it/s]				
474/499	0.206G	0.02467	0.00748	0.01774	2	320:
80% #####	32/40 [00:05<00:01,	5.73it/s]				
474/499	0.206G	0.02467	0.00748	0.01774	2	320:
82% #####2	33/40 [00:05<00:01,	5.61it/s]				
474/499	0.206G	0.02448	0.00747	0.01768	2	320:
82% #####2	33/40 [00:06<00:01,	5.61it/s]				
474/499	0.206G	0.02448	0.00747	0.01768	2	320:
85% #####5	34/40 [00:06<00:01,	5.67it/s]				
474/499	0.206G	0.02434	0.007436	0.01756	2	320:
85% #####5	34/40 [00:06<00:01,	5.67it/s]				
474/499	0.206G	0.02434	0.007436	0.01756	2	320:
88% #####7	35/40 [00:06<00:00,	5.29it/s]				
474/499	0.206G	0.02408	0.007533	0.01755	4	320:
88% #####7	35/40 [00:06<00:00,	5.29it/s]				
474/499	0.206G	0.02408	0.007533	0.01755	4	320:
90% #####	36/40 [00:06<00:00,	5.28it/s]				
474/499	0.206G	0.02396	0.007687	0.01764	4	320:
90% #####	36/40 [00:06<00:00,	5.28it/s]				
474/499	0.206G	0.02396	0.007687	0.01764	4	320:
92% #####2	37/40 [00:06<00:00,	5.05it/s]				
474/499	0.206G	0.02359	0.007568	0.01745	1	320:
92% #####2	37/40 [00:06<00:00,	5.05it/s]				
474/499	0.206G	0.02359	0.007568	0.01745	1	320:
95% #####5	38/40 [00:06<00:00,	5.13it/s]				
474/499	0.206G	0.02329	0.007526	0.01734	1	320:
95% #####5	38/40 [00:07<00:00,	5.13it/s]				
474/499	0.206G	0.02329	0.007526	0.01734	1	320:
98% #####7	39/40 [00:07<00:00,	5.05it/s]				
474/499	0.206G	0.02329	0.00751	0.01732	2	320:
98% #####7	39/40 [00:07<00:00,	5.05it/s]				
474/499	0.206G	0.02329	0.00751	0.01732	2	320:
100% #####	40/40 [00:07<00:00,	4.89it/s]				
474/499	0.206G	0.02329	0.00751	0.01732	2	320:
100% #####	40/40 [00:07<00:00,	5.44it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	10% #	2/20 [00:00<00:01, 13.70it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	20% ##	4/20 [00:00<00:01, 15.20it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 14.00it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 14.73it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 14.65it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 14.89it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 14.66it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:01<00:00, 15.06it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 15.34it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 14.45it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 14.67it/s]					
	all	40	40	0.979	0.975	0.992	
0.796							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
475/499	0.206G	0.01711	0.004888	0.01416	1	320:
0%	0/40 [00:00<?, ?it/s]					
475/499	0.206G	0.01711	0.004888	0.01416	1	320:
2% 2	1/40 [00:00<00:06, 6.40it/s]					
475/499	0.206G	0.01383	0.005421	0.0132	2	320:
2% 2	1/40 [00:00<00:06, 6.40it/s]					
475/499	0.206G	0.01383	0.005421	0.0132	2	320:
5% 5	2/40 [00:00<00:06, 6.04it/s]					
475/499	0.206G	0.01566	0.006631	0.01697	2	320:
5% 5	2/40 [00:00<00:06, 6.04it/s]					
475/499	0.206G	0.01566	0.006631	0.01697	2	320:
8% 7	3/40 [00:00<00:06, 5.90it/s]					
475/499	0.206G	0.0134	0.005584	0.01562	1	320:
8% 7	3/40 [00:00<00:06, 5.90it/s]					
475/499	0.206G	0.0134	0.005584	0.01562	1	320:
10% #	4/40 [00:00<00:06, 5.86it/s]					
475/499	0.206G	0.01399	0.006061	0.01529	2	320:
10% #	4/40 [00:00<00:06, 5.86it/s]					
475/499	0.206G	0.01399	0.006061	0.01529	2	320:
12% #2	5/40 [00:00<00:05, 5.85it/s]					
475/499	0.206G	0.0128	0.005523	0.01542	1	320:

12% #2	5/40 [00:01<00:05,	5.85it/s]				
475/499	0.206G	0.0128	0.005523	0.01542	1	320:
15% #5	6/40 [00:01<00:05,	5.81it/s]				
475/499	0.206G	0.01228	0.005921	0.01533	2	320:
15% #5	6/40 [00:01<00:05,	5.81it/s]				
475/499	0.206G	0.01228	0.005921	0.01533	2	320:
18% #7	7/40 [00:01<00:05,	5.81it/s]				
475/499	0.206G	0.01394	0.00627	0.01619	3	320:
18% #7	7/40 [00:01<00:05,	5.81it/s]				
475/499	0.206G	0.01394	0.00627	0.01619	3	320:
20% ##	8/40 [00:01<00:05,	5.65it/s]				
475/499	0.206G	0.01534	0.006909	0.01665	4	320:
20% ##	8/40 [00:01<00:05,	5.65it/s]				
475/499	0.206G	0.01534	0.006909	0.01665	4	320:
22% ##2	9/40 [00:01<00:05,	5.69it/s]				
475/499	0.206G	0.01509	0.006777	0.01642	1	320:
22% ##2	9/40 [00:01<00:05,	5.69it/s]				
475/499	0.206G	0.01509	0.006777	0.01642	1	320:
25% ##5	10/40 [00:01<00:05,	5.73it/s]				
475/499	0.206G	0.0157	0.007291	0.01691	4	320:
25% ##5	10/40 [00:01<00:05,	5.73it/s]				
475/499	0.206G	0.0157	0.007291	0.01691	4	320:
28% ##7	11/40 [00:01<00:05,	5.60it/s]				
475/499	0.206G	0.01616	0.007696	0.01732	4	320:
28% ##7	11/40 [00:02<00:05,	5.60it/s]				
475/499	0.206G	0.01616	0.007696	0.01732	4	320:
30% ###	12/40 [00:02<00:05,	5.11it/s]				
475/499	0.206G	0.01627	0.007679	0.01741	2	320:
30% ###	12/40 [00:02<00:05,	5.11it/s]				
475/499	0.206G	0.01627	0.007679	0.01741	2	320:
32% ###2	13/40 [00:02<00:05,	5.18it/s]				
475/499	0.206G	0.01567	0.007601	0.01703	2	320:
32% ###2	13/40 [00:02<00:05,	5.18it/s]				
475/499	0.206G	0.01567	0.007601	0.01703	2	320:
35% ###5	14/40 [00:02<00:04,	5.38it/s]				
475/499	0.206G	0.01781	0.007733	0.01832	2	320:
35% ###5	14/40 [00:02<00:04,	5.38it/s]				
475/499	0.206G	0.01781	0.007733	0.01832	2	320:
38% ###7	15/40 [00:02<00:04,	5.32it/s]				
475/499	0.206G	0.0172	0.007597	0.01809	1	320:
38% ###7	15/40 [00:02<00:04,	5.32it/s]				
475/499	0.206G	0.0172	0.007597	0.01809	1	320:
40% ####	16/40 [00:02<00:04,	5.33it/s]				
475/499	0.206G	0.01659	0.007345	0.01782	1	320:
40% ####	16/40 [00:03<00:04,	5.33it/s]				
475/499	0.206G	0.01659	0.007345	0.01782	1	320:
42% ####2	17/40 [00:03<00:04,	5.59it/s]				
475/499	0.206G	0.01666	0.007374	0.01785	2	320:

42% ####2	17/40 [00:03<00:04,	5.59it/s]				
475/499	0.206G	0.01666	0.007374	0.01785	2	320:
45% ####5	18/40 [00:03<00:03,	5.50it/s]				
475/499	0.206G	0.01623	0.00719	0.0176	1	320:
45% ####5	18/40 [00:03<00:03,	5.50it/s]				
475/499	0.206G	0.01623	0.00719	0.0176	1	320:
48% ####7	19/40 [00:03<00:03,	5.59it/s]				
475/499	0.206G	0.01584	0.006966	0.01746	1	320:
48% ####7	19/40 [00:03<00:03,	5.59it/s]				
475/499	0.206G	0.01584	0.006966	0.01746	1	320:
50% #####	20/40 [00:03<00:03,	5.63it/s]				
475/499	0.206G	0.01542	0.006774	0.01727	1	320:
50% #####	20/40 [00:03<00:03,	5.63it/s]				
475/499	0.206G	0.01542	0.006774	0.01727	1	320:
52% #####2	21/40 [00:03<00:03,	5.69it/s]				
475/499	0.206G	0.01539	0.006915	0.0171	2	320:
52% #####2	21/40 [00:03<00:03,	5.69it/s]				
475/499	0.206G	0.01539	0.006915	0.0171	2	320:
55% #####5	22/40 [00:03<00:03,	5.73it/s]				
475/499	0.206G	0.01668	0.006961	0.01716	3	320:
55% #####5	22/40 [00:04<00:03,	5.73it/s]				
475/499	0.206G	0.01668	0.006961	0.01716	3	320:
57% #####7	23/40 [00:04<00:03,	5.66it/s]				
475/499	0.206G	0.01646	0.007117	0.017	2	320:
57% #####7	23/40 [00:04<00:03,	5.66it/s]				
475/499	0.206G	0.01646	0.007117	0.017	2	320:
60% #####	24/40 [00:04<00:02,	5.64it/s]				
475/499	0.206G	0.01647	0.007372	0.01694	4	320:
60% #####	24/40 [00:04<00:02,	5.64it/s]				
475/499	0.206G	0.01647	0.007372	0.01694	4	320:
62% #####2	25/40 [00:04<00:02,	5.54it/s]				
475/499	0.206G	0.01656	0.007303	0.01697	2	320:
62% #####2	25/40 [00:04<00:02,	5.54it/s]				
475/499	0.206G	0.01656	0.007303	0.01697	2	320:
65% #####5	26/40 [00:04<00:02,	5.48it/s]				
475/499	0.206G	0.01657	0.007244	0.01684	2	320:
65% #####5	26/40 [00:04<00:02,	5.48it/s]				
475/499	0.206G	0.01657	0.007244	0.01684	2	320:
68% #####7	27/40 [00:04<00:02,	5.43it/s]				
475/499	0.206G	0.01637	0.007143	0.01701	1	320:
68% #####7	27/40 [00:05<00:02,	5.43it/s]				
475/499	0.206G	0.01637	0.007143	0.01701	1	320:
70% #####	28/40 [00:05<00:02,	5.54it/s]				
475/499	0.206G	0.01639	0.007359	0.01703	4	320:
70% #####	28/40 [00:05<00:02,	5.54it/s]				
475/499	0.206G	0.01639	0.007359	0.01703	4	320:
72% #####2	29/40 [00:05<00:02,	5.45it/s]				
475/499	0.206G	0.01618	0.007228	0.01681	1	320:

72%	#####2		29/40	[00:05<00:02,	5.45it/s]				
	475/499		0.206G	0.01618	0.007228	0.01681	1	320:	
75%	#####5		30/40	[00:05<00:01,	5.41it/s]				
	475/499		0.206G	0.01613	0.007163	0.01671	1	320:	
75%	#####5		30/40	[00:05<00:01,	5.41it/s]				
	475/499		0.206G	0.01613	0.007163	0.01671	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.53it/s]				
	475/499		0.206G	0.01609	0.00705	0.01661	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.53it/s]				
	475/499		0.206G	0.01609	0.00705	0.01661	1	320:	
80%	#####		32/40	[00:05<00:01,	5.60it/s]				
	475/499		0.206G	0.01606	0.007083	0.01677	2	320:	
80%	#####		32/40	[00:05<00:01,	5.60it/s]				
	475/499		0.206G	0.01606	0.007083	0.01677	2	320:	
82%	#####2		33/40	[00:05<00:01,	5.66it/s]				
	475/499		0.206G	0.01698	0.007133	0.01674	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.66it/s]				
	475/499		0.206G	0.01698	0.007133	0.01674	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.55it/s]				
	475/499		0.206G	0.01753	0.007097	0.01676	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.55it/s]				
	475/499		0.206G	0.01753	0.007097	0.01676	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.62it/s]				
	475/499		0.206G	0.01731	0.007073	0.01681	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.62it/s]				
	475/499		0.206G	0.01731	0.007073	0.01681	1	320:	
90%	#####		36/40	[00:06<00:00,	5.68it/s]				
	475/499		0.206G	0.01712	0.006999	0.01672	1	320:	
90%	#####		36/40	[00:06<00:00,	5.68it/s]				
	475/499		0.206G	0.01712	0.006999	0.01672	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.72it/s]				
	475/499		0.206G	0.01734	0.007159	0.01673	4	320:	
92%	#####2		37/40	[00:06<00:00,	5.72it/s]				
	475/499		0.206G	0.01734	0.007159	0.01673	4	320:	
95%	#####5		38/40	[00:06<00:00,	5.73it/s]				
	475/499		0.206G	0.01731	0.007129	0.01669	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.73it/s]				
	475/499		0.206G	0.01731	0.007129	0.01669	1	320:	
98%	#####7		39/40	[00:06<00:00,	5.60it/s]				
	475/499		0.206G	0.01706	0.007022	0.01668	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.60it/s]				
	475/499		0.206G	0.01706	0.007022	0.01668	1	320:	
100%	#####		40/40	[00:07<00:00,	5.66it/s]				
	475/499		0.206G	0.01706	0.007022	0.01668	1	320:	
100%	#####		40/40	[00:07<00:00,	5.59it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 16.29it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 16.96it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 15.59it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 40% ####		8/20	[00:00<00:00, 15.75it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 50% #####		10/20	[00:00<00:00, 16.42it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 60% #####		12/20	[00:00<00:00, 17.16it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 75% #####5		15/20	[00:00<00:00, 17.96it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 85% #####5		17/20	[00:01<00:00, 17.35it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 95% #####5		19/20	[00:01<00:00, 17.61it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 100% #####		20/20	[00:01<00:00, 16.99it/s]			
	all	40	40	0.979	0.975	0.993

0.799

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
476/499	0.206G	0.008232	0.004711	0.01716	1	320:
0%		0/40	[00:00<?, ?it/s]			
476/499	0.206G	0.008232	0.004711	0.01716	1	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
476/499	0.206G	0.008014	0.00531	0.01462	2	320:
2% 2		1/40	[00:00<00:06, 6.40it/s]			
476/499	0.206G	0.008014	0.00531	0.01462	2	320:
5% 5		2/40	[00:00<00:06, 6.00it/s]			
476/499	0.206G	0.01743	0.006266	0.01651	2	320:
5% 5		2/40	[00:00<00:06, 6.00it/s]			
476/499	0.206G	0.01743	0.006266	0.01651	2	320:
8% 7		3/40	[00:00<00:06, 5.68it/s]			
476/499	0.206G	0.02666	0.005742	0.01998	2	320:
8% 7		3/40	[00:00<00:06, 5.68it/s]			
476/499	0.206G	0.02666	0.005742	0.01998	2	320:
10% #		4/40	[00:00<00:06, 5.73it/s]			
476/499	0.206G	0.02337	0.006279	0.01891	2	320:
10% #		4/40	[00:00<00:06, 5.73it/s]			
476/499	0.206G	0.02337	0.006279	0.01891	2	320:
12% #2		5/40	[00:00<00:06, 5.74it/s]			
476/499	0.206G	0.02962	0.005716	0.02064	2	320:
12% #2		5/40	[00:01<00:06, 5.74it/s]			

476/499	0.206G	0.02962	0.005716	0.02064	2	320:
15% #5	6/40 [00:01<00:06,	5.60it/s]				
476/499	0.206G	0.02872	0.005853	0.02074	2	320:
15% #5	6/40 [00:01<00:06,	5.60it/s]				
476/499	0.206G	0.02872	0.005853	0.02074	2	320:
18% #7	7/40 [00:01<00:05,	5.67it/s]				
476/499	0.206G	0.02993	0.005936	0.02035	2	320:
18% #7	7/40 [00:01<00:05,	5.67it/s]				
476/499	0.206G	0.02993	0.005936	0.02035	2	320:
20% ##	8/40 [00:01<00:05,	5.40it/s]				
476/499	0.206G	0.02815	0.005777	0.01939	1	320:
20% ##	8/40 [00:01<00:05,	5.40it/s]				
476/499	0.206G	0.02815	0.005777	0.01939	1	320:
22% ##2	9/40 [00:01<00:05,	5.52it/s]				
476/499	0.206G	0.02781	0.005781	0.01893	2	320:
22% ##2	9/40 [00:01<00:05,	5.52it/s]				
476/499	0.206G	0.02781	0.005781	0.01893	2	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
476/499	0.206G	0.02749	0.006499	0.01897	4	320:
25% ##5	10/40 [00:01<00:05,	5.59it/s]				
476/499	0.206G	0.02749	0.006499	0.01897	4	320:
28% ##7	11/40 [00:01<00:05,	5.38it/s]				
476/499	0.206G	0.02642	0.007229	0.01904	4	320:
28% ##7	11/40 [00:02<00:05,	5.38it/s]				
476/499	0.206G	0.02642	0.007229	0.01904	4	320:
30% ###	12/40 [00:02<00:05,	5.36it/s]				
476/499	0.206G	0.02548	0.007282	0.01894	2	320:
30% ###	12/40 [00:02<00:05,	5.36it/s]				
476/499	0.206G	0.02548	0.007282	0.01894	2	320:
32% ###2	13/40 [00:02<00:05,	5.35it/s]				
476/499	0.206G	0.02505	0.00767	0.0191	4	320:
32% ###2	13/40 [00:02<00:05,	5.35it/s]				
476/499	0.206G	0.02505	0.00767	0.0191	4	320:
35% ###5	14/40 [00:02<00:04,	5.32it/s]				
476/499	0.206G	0.02388	0.00745	0.01871	1	320:
35% ###5	14/40 [00:02<00:04,	5.32it/s]				
476/499	0.206G	0.02388	0.00745	0.01871	1	320:
38% ###7	15/40 [00:02<00:04,	5.46it/s]				
476/499	0.206G	0.02367	0.007593	0.01863	2	320:
38% ###7	15/40 [00:02<00:04,	5.46it/s]				
476/499	0.206G	0.02367	0.007593	0.01863	2	320:
40% ####	16/40 [00:02<00:04,	5.40it/s]				
476/499	0.206G	0.02286	0.007702	0.01872	2	320:
40% ####	16/40 [00:03<00:04,	5.40it/s]				
476/499	0.206G	0.02286	0.007702	0.01872	2	320:
42% ####2	17/40 [00:03<00:04,	5.52it/s]				
476/499	0.206G	0.02278	0.0083	0.01966	4	320:
42% ####2	17/40 [00:03<00:04,	5.52it/s]				

476/499	0.206G	0.02278	0.0083	0.01966	4	320:
45% #####5	18/40 [00:03<00:03,	5.61it/s]				
476/499	0.206G	0.02271	0.00868	0.02039	4	320:
45% #####5	18/40 [00:03<00:03,	5.61it/s]				
476/499	0.206G	0.02271	0.00868	0.02039	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
476/499	0.206G	0.02317	0.008973	0.02032	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
476/499	0.206G	0.02317	0.008973	0.02032	4	320:
50% #####	20/40 [00:03<00:03,	5.32it/s]				
476/499	0.206G	0.02379	0.009208	0.02045	4	320:
50% #####	20/40 [00:03<00:03,	5.32it/s]				
476/499	0.206G	0.02379	0.009208	0.02045	4	320:
52% #####2	21/40 [00:03<00:03,	5.45it/s]				
476/499	0.206G	0.0231	0.00905	0.0202	2	320:
52% #####2	21/40 [00:03<00:03,	5.45it/s]				
476/499	0.206G	0.0231	0.00905	0.0202	2	320:
55% #####5	22/40 [00:03<00:03,	5.40it/s]				
476/499	0.206G	0.02359	0.008985	0.0215	2	320:
55% #####5	22/40 [00:04<00:03,	5.40it/s]				
476/499	0.206G	0.02359	0.008985	0.0215	2	320:
57% #####7	23/40 [00:04<00:03,	5.25it/s]				
476/499	0.206G	0.0235	0.0094	0.0213	4	320:
57% #####7	23/40 [00:04<00:03,	5.25it/s]				
476/499	0.206G	0.0235	0.0094	0.0213	4	320:
60% #####	24/40 [00:04<00:03,	5.15it/s]				
476/499	0.206G	0.02392	0.009605	0.02125	4	320:
60% #####	24/40 [00:04<00:03,	5.15it/s]				
476/499	0.206G	0.02392	0.009605	0.02125	4	320:
62% #####2	25/40 [00:04<00:02,	5.03it/s]				
476/499	0.206G	0.02349	0.009432	0.02109	2	320:
62% #####2	25/40 [00:04<00:02,	5.03it/s]				
476/499	0.206G	0.02349	0.009432	0.02109	2	320:
65% #####5	26/40 [00:04<00:02,	5.03it/s]				
476/499	0.206G	0.02396	0.009621	0.02091	4	320:
65% #####5	26/40 [00:05<00:02,	5.03it/s]				
476/499	0.206G	0.02396	0.009621	0.02091	4	320:
68% #####7	27/40 [00:05<00:02,	4.99it/s]				
476/499	0.206G	0.02349	0.009399	0.02039	1	320:
68% #####7	27/40 [00:05<00:02,	4.99it/s]				
476/499	0.206G	0.02349	0.009399	0.02039	1	320:
70% #####	28/40 [00:05<00:02,	5.21it/s]				
476/499	0.206G	0.02292	0.009155	0.02017	1	320:
70% #####	28/40 [00:05<00:02,	5.21it/s]				
476/499	0.206G	0.02292	0.009155	0.02017	1	320:
72% #####2	29/40 [00:05<00:02,	5.12it/s]				
476/499	0.206G	0.02241	0.008932	0.01987	1	320:
72% #####2	29/40 [00:05<00:02,	5.12it/s]				

476/499	0.206G	0.02241	0.008932	0.01987	1	320:
75% #####5	30/40 [00:05<00:01,	5.16it/s]				
476/499	0.206G	0.02274	0.008895	0.01985	2	320:
75% #####5	30/40 [00:05<00:01,	5.16it/s]				
476/499	0.206G	0.02274	0.008895	0.01985	2	320:
78% #####7	31/40 [00:05<00:01,	4.97it/s]				
476/499	0.206G	0.02232	0.008779	0.0197	2	320:
78% #####7	31/40 [00:05<00:01,	4.97it/s]				
476/499	0.206G	0.02232	0.008779	0.0197	2	320:
80% #####	32/40 [00:05<00:01,	5.07it/s]				
476/499	0.206G	0.02242	0.009012	0.02014	4	320:
80% #####	32/40 [00:06<00:01,	5.07it/s]				
476/499	0.206G	0.02242	0.009012	0.02014	4	320:
82% #####2	33/40 [00:06<00:01,	4.90it/s]				
476/499	0.206G	0.02332	0.008915	0.02016	2	320:
82% #####2	33/40 [00:06<00:01,	4.90it/s]				
476/499	0.206G	0.02332	0.008915	0.02016	2	320:
85% #####5	34/40 [00:06<00:01,	4.91it/s]				
476/499	0.206G	0.02291	0.008776	0.0199	1	320:
85% #####5	34/40 [00:06<00:01,	4.91it/s]				
476/499	0.206G	0.02291	0.008776	0.0199	1	320:
88% #####7	35/40 [00:06<00:00,	5.02it/s]				
476/499	0.206G	0.02338	0.008782	0.02	4	320:
88% #####7	35/40 [00:06<00:00,	5.02it/s]				
476/499	0.206G	0.02338	0.008782	0.02	4	320:
90% #####	36/40 [00:06<00:00,	4.77it/s]				
476/499	0.206G	0.02354	0.008885	0.02008	4	320:
90% #####	36/40 [00:07<00:00,	4.77it/s]				
476/499	0.206G	0.02354	0.008885	0.02008	4	320:
92% #####2	37/40 [00:07<00:00,	4.81it/s]				
476/499	0.206G	0.02307	0.008748	0.02004	1	320:
92% #####2	37/40 [00:07<00:00,	4.81it/s]				
476/499	0.206G	0.02307	0.008748	0.02004	1	320:
95% #####5	38/40 [00:07<00:00,	4.73it/s]				
476/499	0.206G	0.0231	0.008937	0.02008	4	320:
95% #####5	38/40 [00:07<00:00,	4.73it/s]				
476/499	0.206G	0.0231	0.008937	0.02008	4	320:
98% #####7	39/40 [00:07<00:00,	4.89it/s]				
476/499	0.206G	0.02275	0.008783	0.02009	1	320:
98% #####7	39/40 [00:07<00:00,	4.89it/s]				
476/499	0.206G	0.02275	0.008783	0.02009	1	320:
100% #####	40/40 [00:07<00:00,	5.04it/s]				
476/499	0.206G	0.02275	0.008783	0.02009	1	320:
100% #####	40/40 [00:07<00:00,	5.24it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	15% #5	3/20 [00:00<00:00, 18.48it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	25% ##5	5/20 [00:00<00:00, 17.17it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	35% ###5	7/20 [00:00<00:00, 17.61it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	45% ####5	9/20 [00:00<00:00, 16.43it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	55% #####5	11/20 [00:00<00:00, 17.46it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	65% #####5	13/20 [00:00<00:00, 17.72it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	75% #####5	15/20 [00:00<00:00, 16.43it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	85% #####5	17/20 [00:01<00:00, 16.29it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5	19/20 [00:01<00:00, 16.16it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.93it/s]					
	all	40	40	0.979	0.975	0.994	
0.797							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
477/499	0.206G	0.02565	0.01175	0.01865	4	320:
0%	0/40 [00:00<?, ?it/s]					
477/499	0.206G	0.02565	0.01175	0.01865	4	320:
2% 2	1/40 [00:00<00:06, 6.28it/s]					
477/499	0.206G	0.017	0.008954	0.01527	2	320:
2% 2	1/40 [00:00<00:06, 6.28it/s]					
477/499	0.206G	0.017	0.008954	0.01527	2	320:
5% 5	2/40 [00:00<00:06, 5.59it/s]					
477/499	0.206G	0.01638	0.008427	0.01578	2	320:
5% 5	2/40 [00:00<00:06, 5.59it/s]					
477/499	0.206G	0.01638	0.008427	0.01578	2	320:
8% 7	3/40 [00:00<00:06, 5.75it/s]					
477/499	0.206G	0.0196	0.0083	0.01555	2	320:
8% 7	3/40 [00:00<00:06, 5.75it/s]					
477/499	0.206G	0.0196	0.0083	0.01555	2	320:
10% #	4/40 [00:00<00:06, 5.58it/s]					
477/499	0.206G	0.01747	0.007381	0.01539	1	320:
10% #	4/40 [00:00<00:06, 5.58it/s]					
477/499	0.206G	0.01747	0.007381	0.01539	1	320:
12% #2	5/40 [00:00<00:06, 5.66it/s]					
477/499	0.206G	0.01566	0.006779	0.01518	1	320:
12% #2	5/40 [00:01<00:06, 5.66it/s]					
477/499	0.206G	0.01566	0.006779	0.01518	1	320:

15% #5	6/40 [00:01<00:05,	5.89it/s]				
477/499	0.206G	0.01494	0.007385	0.01487	4	320:
15% #5	6/40 [00:01<00:05,	5.89it/s]				
477/499	0.206G	0.01494	0.007385	0.01487	4	320:
18% #7	7/40 [00:01<00:05,	5.53it/s]				
477/499	0.206G	0.01423	0.007375	0.01463	2	320:
18% #7	7/40 [00:01<00:05,	5.53it/s]				
477/499	0.206G	0.01423	0.007375	0.01463	2	320:
20% ##	8/40 [00:01<00:05,	5.62it/s]				
477/499	0.206G	0.01566	0.00808	0.01479	2	320:
20% ##	8/40 [00:01<00:05,	5.62it/s]				
477/499	0.206G	0.01566	0.00808	0.01479	2	320:
22% ##2	9/40 [00:01<00:05,	5.52it/s]				
477/499	0.206G	0.0156	0.008746	0.01548	4	320:
22% ##2	9/40 [00:01<00:05,	5.52it/s]				
477/499	0.206G	0.0156	0.008746	0.01548	4	320:
25% ##5	10/40 [00:01<00:05,	5.44it/s]				
477/499	0.206G	0.01664	0.00929	0.01683	2	320:
25% ##5	10/40 [00:01<00:05,	5.44it/s]				
477/499	0.206G	0.01664	0.00929	0.01683	2	320:
28% ##7	11/40 [00:01<00:05,	5.41it/s]				
477/499	0.206G	0.0158	0.008791	0.01656	1	320:
28% ##7	11/40 [00:02<00:05,	5.41it/s]				
477/499	0.206G	0.0158	0.008791	0.01656	1	320:
30% ###	12/40 [00:02<00:05,	5.36it/s]				
477/499	0.206G	0.01679	0.009391	0.01651	4	320:
30% ###	12/40 [00:02<00:05,	5.36it/s]				
477/499	0.206G	0.01679	0.009391	0.01651	4	320:
32% ###2	13/40 [00:02<00:05,	5.23it/s]				
477/499	0.206G	0.01755	0.009306	0.0181	2	320:
32% ###2	13/40 [00:02<00:05,	5.23it/s]				
477/499	0.206G	0.01755	0.009306	0.0181	2	320:
35% ###5	14/40 [00:02<00:04,	5.39it/s]				
477/499	0.206G	0.0187	0.009545	0.01827	4	320:
35% ###5	14/40 [00:02<00:04,	5.39it/s]				
477/499	0.206G	0.0187	0.009545	0.01827	4	320:
38% ###7	15/40 [00:02<00:04,	5.35it/s]				
477/499	0.206G	0.0186	0.009762	0.01851	4	320:
38% ###7	15/40 [00:02<00:04,	5.35it/s]				
477/499	0.206G	0.0186	0.009762	0.01851	4	320:
40% ####	16/40 [00:02<00:04,	5.34it/s]				
477/499	0.206G	0.01863	0.01006	0.01862	4	320:
40% ####	16/40 [00:03<00:04,	5.34it/s]				
477/499	0.206G	0.01863	0.01006	0.01862	4	320:
42% ####2	17/40 [00:03<00:04,	5.34it/s]				
477/499	0.206G	0.01992	0.009977	0.01845	3	320:
42% ####2	17/40 [00:03<00:04,	5.34it/s]				
477/499	0.206G	0.01992	0.009977	0.01845	3	320:

45% #####5	18/40 [00:03<00:04,	5.33it/s]				
477/499	0.206G	0.02093	0.01053	0.01883	4	320:
45% #####5	18/40 [00:03<00:04,	5.33it/s]				
477/499	0.206G	0.02093	0.01053	0.01883	4	320:
48% #####7	19/40 [00:03<00:03,	5.34it/s]				
477/499	0.206G	0.0207	0.01011	0.01822	1	320:
48% #####7	19/40 [00:03<00:03,	5.34it/s]				
477/499	0.206G	0.0207	0.01011	0.01822	1	320:
50% #####	20/40 [00:03<00:03,	5.62it/s]				
477/499	0.206G	0.02135	0.009963	0.0182	2	320:
50% #####	20/40 [00:03<00:03,	5.62it/s]				
477/499	0.206G	0.02135	0.009963	0.0182	2	320:
52% #####2	21/40 [00:03<00:03,	5.66it/s]				
477/499	0.206G	0.02196	0.01019	0.01858	4	320:
52% #####2	21/40 [00:03<00:03,	5.66it/s]				
477/499	0.206G	0.02196	0.01019	0.01858	4	320:
55% #####5	22/40 [00:03<00:03,	5.55it/s]				
477/499	0.206G	0.02179	0.01029	0.01855	4	320:
55% #####5	22/40 [00:04<00:03,	5.55it/s]				
477/499	0.206G	0.02179	0.01029	0.01855	4	320:
57% #####7	23/40 [00:04<00:03,	5.35it/s]				
477/499	0.206G	0.02182	0.01039	0.01875	4	320:
57% #####7	23/40 [00:04<00:03,	5.35it/s]				
477/499	0.206G	0.02182	0.01039	0.01875	4	320:
60% #####	24/40 [00:04<00:03,	4.95it/s]				
477/499	0.206G	0.02265	0.01027	0.0193	2	320:
60% #####	24/40 [00:04<00:03,	4.95it/s]				
477/499	0.206G	0.02265	0.01027	0.0193	2	320:
62% #####2	25/40 [00:04<00:03,	4.94it/s]				
477/499	0.206G	0.02342	0.01025	0.01944	2	320:
62% #####2	25/40 [00:04<00:03,	4.94it/s]				
477/499	0.206G	0.02342	0.01025	0.01944	2	320:
65% #####5	26/40 [00:04<00:02,	4.99it/s]				
477/499	0.206G	0.02308	0.01031	0.01932	4	320:
65% #####5	26/40 [00:05<00:02,	4.99it/s]				
477/499	0.206G	0.02308	0.01031	0.01932	4	320:
68% #####7	27/40 [00:05<00:02,	5.02it/s]				
477/499	0.206G	0.02341	0.01023	0.02013	2	320:
68% #####7	27/40 [00:05<00:02,	5.02it/s]				
477/499	0.206G	0.02341	0.01023	0.02013	2	320:
70% #####	28/40 [00:05<00:02,	5.11it/s]				
477/499	0.206G	0.02311	0.01007	0.01992	1	320:
70% #####	28/40 [00:05<00:02,	5.11it/s]				
477/499	0.206G	0.02311	0.01007	0.01992	1	320:
72% #####2	29/40 [00:05<00:02,	5.30it/s]				
477/499	0.206G	0.02349	0.01007	0.01989	3	320:
72% #####2	29/40 [00:05<00:02,	5.30it/s]				
477/499	0.206G	0.02349	0.01007	0.01989	3	320:

75%	#####5		30/40	[00:05<00:01,	5.18it/s]				
	477/499		0.206G	0.02301	0.01001	0.01972	4	320:	
75%	#####5		30/40	[00:05<00:01,	5.18it/s]				
	477/499		0.206G	0.02301	0.01001	0.01972	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.36it/s]				
	477/499		0.206G	0.0228	0.009873	0.01956	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.36it/s]				
	477/499		0.206G	0.0228	0.009873	0.01956	2	320:	
80%	#####		32/40	[00:05<00:01,	5.34it/s]				
	477/499		0.206G	0.02248	0.009717	0.01942	2	320:	
80%	#####		32/40	[00:06<00:01,	5.34it/s]				
	477/499		0.206G	0.02248	0.009717	0.01942	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.33it/s]				
	477/499		0.206G	0.02288	0.00967	0.01927	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.33it/s]				
	477/499		0.206G	0.02288	0.00967	0.01927	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.47it/s]				
	477/499		0.206G	0.02248	0.009585	0.01907	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.47it/s]				
	477/499		0.206G	0.02248	0.009585	0.01907	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.48it/s]				
	477/499		0.206G	0.02242	0.009723	0.0192	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.48it/s]				
	477/499		0.206G	0.02242	0.009723	0.0192	4	320:	
90%	#####		36/40	[00:06<00:00,	5.36it/s]				
	477/499		0.206G	0.02198	0.009557	0.01937	1	320:	
90%	#####		36/40	[00:06<00:00,	5.36it/s]				
	477/499		0.206G	0.02198	0.009557	0.01937	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.49it/s]				
	477/499		0.206G	0.02206	0.009409	0.01926	1	320:	
92%	#####2		37/40	[00:07<00:00,	5.49it/s]				
	477/499		0.206G	0.02206	0.009409	0.01926	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.56it/s]				
	477/499		0.206G	0.02196	0.009549	0.01922	4	320:	
95%	#####5		38/40	[00:07<00:00,	5.56it/s]				
	477/499		0.206G	0.02196	0.009549	0.01922	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.48it/s]				
	477/499		0.206G	0.02249	0.009507	0.01925	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.48it/s]				
	477/499		0.206G	0.02249	0.009507	0.01925	2	320:	
100%	#####		40/40	[00:07<00:00,	5.30it/s]				
	477/499		0.206G	0.02249	0.009507	0.01925	2	320:	
100%	#####		40/40	[00:07<00:00,	5.38it/s]				

		Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]			
		Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 14.20it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00, 16.35it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00, 17.17it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00, 17.60it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00, 17.08it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	65% #####5	13/20	[00:00<00:00, 18.50it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	15/20	[00:00<00:00, 18.44it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20	[00:00<00:00, 18.39it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20	[00:01<00:00, 16.56it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00, 17.46it/s]			
	all	40	40	0.979	0.975	0.994

0.797

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
478/499	0.206G	0.03883	0.009446	0.01682	2	320:
0%	0/40	[00:00<?, ?it/s]				
478/499	0.206G	0.03883	0.009446	0.01682	2	320:
2% 2	1/40	[00:00<00:06, 5.86it/s]				
478/499	0.206G	0.03486	0.00898	0.01747	2	320:
2% 2	1/40	[00:00<00:06, 5.86it/s]				
478/499	0.206G	0.03486	0.00898	0.01747	2	320:
5% 5	2/40	[00:00<00:06, 5.79it/s]				
478/499	0.206G	0.02746	0.008429	0.01566	2	320:
5% 5	2/40	[00:00<00:06, 5.79it/s]				
478/499	0.206G	0.02746	0.008429	0.01566	2	320:
8% 7	3/40	[00:00<00:06, 5.81it/s]				
478/499	0.206G	0.03206	0.009212	0.0157	3	320:
8% 7	3/40	[00:00<00:06, 5.81it/s]				
478/499	0.206G	0.03206	0.009212	0.0157	3	320:
10% #	4/40	[00:00<00:06, 5.57it/s]				
478/499	0.206G	0.03748	0.01042	0.01592	4	320:
10% #	4/40	[00:00<00:06, 5.57it/s]				
478/499	0.206G	0.03748	0.01042	0.01592	4	320:
12% #2	5/40	[00:00<00:06, 5.48it/s]				
478/499	0.206G	0.03347	0.009385	0.01558	1	320:
12% #2	5/40	[00:01<00:06, 5.48it/s]				
478/499	0.206G	0.03347	0.009385	0.01558	1	320:
15% #5	6/40	[00:01<00:06, 5.59it/s]				

478/499	0.206G	0.03525	0.008976	0.01545	2	320:
15% #5	6/40 [00:01<00:06,	5.59it/s]				
478/499	0.206G	0.03525	0.008976	0.01545	2	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
478/499	0.206G	0.03676	0.008918	0.01562	2	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
478/499	0.206G	0.03676	0.008918	0.01562	2	320:
20% ##	8/40 [00:01<00:05,	5.44it/s]				
478/499	0.206G	0.03362	0.008284	0.0154	1	320:
20% ##	8/40 [00:01<00:05,	5.44it/s]				
478/499	0.206G	0.03362	0.008284	0.0154	1	320:
22% ##2	9/40 [00:01<00:05,	5.55it/s]				
478/499	0.206G	0.03105	0.007885	0.01527	1	320:
22% ##2	9/40 [00:01<00:05,	5.55it/s]				
478/499	0.206G	0.03105	0.007885	0.01527	1	320:
25% ##5	10/40 [00:01<00:05,	5.61it/s]				
478/499	0.206G	0.03002	0.008729	0.01626	4	320:
25% ##5	10/40 [00:01<00:05,	5.61it/s]				
478/499	0.206G	0.03002	0.008729	0.01626	4	320:
28% ##7	11/40 [00:01<00:05,	5.67it/s]				
478/499	0.206G	0.02845	0.008507	0.01686	2	320:
28% ##7	11/40 [00:02<00:05,	5.67it/s]				
478/499	0.206G	0.02845	0.008507	0.01686	2	320:
30% ###	12/40 [00:02<00:05,	5.57it/s]				
478/499	0.206G	0.02687	0.008066	0.01642	1	320:
30% ###	12/40 [00:02<00:05,	5.57it/s]				
478/499	0.206G	0.02687	0.008066	0.01642	1	320:
32% ###2	13/40 [00:02<00:04,	5.44it/s]				
478/499	0.206G	0.02666	0.007738	0.01624	1	320:
32% ###2	13/40 [00:02<00:04,	5.44it/s]				
478/499	0.206G	0.02666	0.007738	0.01624	1	320:
35% ###5	14/40 [00:02<00:04,	5.45it/s]				
478/499	0.206G	0.02625	0.008087	0.01651	4	320:
35% ###5	14/40 [00:02<00:04,	5.45it/s]				
478/499	0.206G	0.02625	0.008087	0.01651	4	320:
38% ###7	15/40 [00:02<00:04,	5.15it/s]				
478/499	0.206G	0.02532	0.007803	0.01635	1	320:
38% ###7	15/40 [00:02<00:04,	5.15it/s]				
478/499	0.206G	0.02532	0.007803	0.01635	1	320:
40% ####	16/40 [00:02<00:04,	5.06it/s]				
478/499	0.206G	0.02464	0.007901	0.01635	2	320:
40% ####	16/40 [00:03<00:04,	5.06it/s]				
478/499	0.206G	0.02464	0.007901	0.01635	2	320:
42% ####2	17/40 [00:03<00:04,	5.14it/s]				
478/499	0.206G	0.02508	0.007879	0.01817	2	320:
42% ####2	17/40 [00:03<00:04,	5.14it/s]				
478/499	0.206G	0.02508	0.007879	0.01817	2	320:
45% ####5	18/40 [00:03<00:04,	4.97it/s]				

478/499	0.206G	0.02477	0.008476	0.01874	4	320:
45% #####5	18/40 [00:03<00:04,	4.97it/s]				
478/499	0.206G	0.02477	0.008476	0.01874	4	320:
48% #####7	19/40 [00:03<00:04,	4.93it/s]				
478/499	0.206G	0.0239	0.008274	0.01841	1	320:
48% #####7	19/40 [00:03<00:04,	4.93it/s]				
478/499	0.206G	0.0239	0.008274	0.01841	1	320:
50% #####	20/40 [00:03<00:04,	4.71it/s]				
478/499	0.206G	0.02323	0.008139	0.01827	1	320:
50% #####	20/40 [00:03<00:04,	4.71it/s]				
478/499	0.206G	0.02323	0.008139	0.01827	1	320:
52% #####2	21/40 [00:03<00:03,	4.87it/s]				
478/499	0.206G	0.02354	0.008413	0.01845	4	320:
52% #####2	21/40 [00:04<00:03,	4.87it/s]				
478/499	0.206G	0.02354	0.008413	0.01845	4	320:
55% #####5	22/40 [00:04<00:03,	4.88it/s]				
478/499	0.206G	0.02335	0.008611	0.01853	4	320:
55% #####5	22/40 [00:04<00:03,	4.88it/s]				
478/499	0.206G	0.02335	0.008611	0.01853	4	320:
57% #####7	23/40 [00:04<00:03,	4.73it/s]				
478/499	0.206G	0.02341	0.009131	0.01864	4	320:
57% #####7	23/40 [00:04<00:03,	4.73it/s]				
478/499	0.206G	0.02341	0.009131	0.01864	4	320:
60% #####	24/40 [00:04<00:03,	4.83it/s]				
478/499	0.206G	0.02307	0.009039	0.01844	2	320:
60% #####	24/40 [00:04<00:03,	4.83it/s]				
478/499	0.206G	0.02307	0.009039	0.01844	2	320:
62% #####2	25/40 [00:04<00:03,	4.97it/s]				
478/499	0.206G	0.02239	0.00879	0.01815	1	320:
62% #####2	25/40 [00:05<00:03,	4.97it/s]				
478/499	0.206G	0.02239	0.00879	0.01815	1	320:
65% #####5	26/40 [00:05<00:02,	4.94it/s]				
478/499	0.206G	0.02332	0.008738	0.01849	2	320:
65% #####5	26/40 [00:05<00:02,	4.94it/s]				
478/499	0.206G	0.02332	0.008738	0.01849	2	320:
68% #####7	27/40 [00:05<00:02,	5.05it/s]				
478/499	0.206G	0.02291	0.008626	0.01833	1	320:
68% #####7	27/40 [00:05<00:02,	5.05it/s]				
478/499	0.206G	0.02291	0.008626	0.01833	1	320:
70% #####	28/40 [00:05<00:02,	5.13it/s]				
478/499	0.206G	0.02243	0.008488	0.01821	1	320:
70% #####	28/40 [00:05<00:02,	5.13it/s]				
478/499	0.206G	0.02243	0.008488	0.01821	1	320:
72% #####2	29/40 [00:05<00:02,	5.30it/s]				
478/499	0.206G	0.02227	0.008597	0.01842	4	320:
72% #####2	29/40 [00:05<00:02,	5.30it/s]				
478/499	0.206G	0.02227	0.008597	0.01842	4	320:
75% #####5	30/40 [00:05<00:01,	5.18it/s]				

478/499	0.206G	0.02192	0.008543	0.01831	2	320:
75% #####5	30/40 [00:05<00:01,	5.18it/s]				
478/499	0.206G	0.02192	0.008543	0.01831	2	320:
78% #####7	31/40 [00:05<00:01,	5.36it/s]				
478/499	0.206G	0.02168	0.008367	0.01817	1	320:
78% #####7	31/40 [00:06<00:01,	5.36it/s]				
478/499	0.206G	0.02168	0.008367	0.01817	1	320:
80% #####	32/40 [00:06<00:01,	5.48it/s]				
478/499	0.206G	0.02163	0.008301	0.01849	2	320:
80% #####	32/40 [00:06<00:01,	5.48it/s]				
478/499	0.206G	0.02163	0.008301	0.01849	2	320:
82% #####2	33/40 [00:06<00:01,	5.44it/s]				
478/499	0.206G	0.02169	0.008414	0.01858	3	320:
82% #####2	33/40 [00:06<00:01,	5.44it/s]				
478/499	0.206G	0.02169	0.008414	0.01858	3	320:
85% #####5	34/40 [00:06<00:01,	5.40it/s]				
478/499	0.206G	0.02166	0.008381	0.01855	2	320:
85% #####5	34/40 [00:06<00:01,	5.40it/s]				
478/499	0.206G	0.02166	0.008381	0.01855	2	320:
88% #####7	35/40 [00:06<00:00,	5.50it/s]				
478/499	0.206G	0.02183	0.008494	0.01857	4	320:
88% #####7	35/40 [00:06<00:00,	5.50it/s]				
478/499	0.206G	0.02183	0.008494	0.01857	4	320:
90% #####	36/40 [00:06<00:00,	5.59it/s]				
478/499	0.206G	0.02185	0.008463	0.01857	2	320:
90% #####	36/40 [00:07<00:00,	5.59it/s]				
478/499	0.206G	0.02185	0.008463	0.01857	2	320:
92% #####2	37/40 [00:07<00:00,	5.49it/s]				
478/499	0.206G	0.02215	0.008624	0.01889	4	320:
92% #####2	37/40 [00:07<00:00,	5.49it/s]				
478/499	0.206G	0.02215	0.008624	0.01889	4	320:
95% #####5	38/40 [00:07<00:00,	5.47it/s]				
478/499	0.206G	0.02177	0.008551	0.01889	2	320:
95% #####5	38/40 [00:07<00:00,	5.47it/s]				
478/499	0.206G	0.02177	0.008551	0.01889	2	320:
98% #####7	39/40 [00:07<00:00,	5.42it/s]				
478/499	0.206G	0.02219	0.008551	0.01879	2	320:
98% #####7	39/40 [00:07<00:00,	5.42it/s]				
478/499	0.206G	0.02219	0.008551	0.01879	2	320:
100% #####	40/40 [00:07<00:00,	5.43it/s]				
478/499	0.206G	0.02219	0.008551	0.01879	2	320:
100% #####	40/40 [00:07<00:00,	5.29it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:01, 13.37it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:01, 15.80it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20 [00:00<00:00, 16.84it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20 [00:00<00:00, 17.37it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.64it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.85it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20 [00:00<00:00, 17.20it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20 [00:00<00:00, 17.97it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20 [00:01<00:00, 17.99it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.34it/s]				
	all	40	40	0.976	0.975	0.993
0.798						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
479/499	0.206G	0.008067	0.004623	0.01443	1	320:
0%	0/40 [00:00<?, ?it/s]					
479/499	0.206G	0.008067	0.004623	0.01443	1	320:
2% 2	1/40 [00:00<00:06, 6.35it/s]					
479/499	0.206G	0.01259	0.006674	0.01535	2	320:
2% 2	1/40 [00:00<00:06, 6.35it/s]					
479/499	0.206G	0.01259	0.006674	0.01535	2	320:
5% 5	2/40 [00:00<00:06, 6.02it/s]					
479/499	0.206G	0.01275	0.01004	0.01519	4	320:
5% 5	2/40 [00:00<00:06, 6.02it/s]					
479/499	0.206G	0.01275	0.01004	0.01519	4	320:
8% 7	3/40 [00:00<00:06, 5.93it/s]					
479/499	0.206G	0.01768	0.01113	0.01647	3	320:
8% 7	3/40 [00:00<00:06, 5.93it/s]					
479/499	0.206G	0.01768	0.01113	0.01647	3	320:
10% #	4/40 [00:00<00:06, 5.86it/s]					
479/499	0.206G	0.01629	0.01078	0.01599	2	320:
10% #	4/40 [00:00<00:06, 5.86it/s]					
479/499	0.206G	0.01629	0.01078	0.01599	2	320:
12% #2	5/40 [00:00<00:05, 5.84it/s]					
479/499	0.206G	0.01684	0.01141	0.01664	4	320:
12% #2	5/40 [00:01<00:05, 5.84it/s]					
479/499	0.206G	0.01684	0.01141	0.01664	4	320:
15% #5	6/40 [00:01<00:06, 5.66it/s]					
479/499	0.206G	0.01798	0.01066	0.01766	2	320:

15% #5	6/40 [00:01<00:06,	5.66it/s]				
479/499	0.206G	0.01798	0.01066	0.01766	2	320:
18% #7	7/40 [00:01<00:06,	5.39it/s]				
479/499	0.206G	0.01698	0.009789	0.01764	1	320:
18% #7	7/40 [00:01<00:06,	5.39it/s]				
479/499	0.206G	0.01698	0.009789	0.01764	1	320:
20% ##	8/40 [00:01<00:05,	5.68it/s]				
479/499	0.206G	0.01855	0.009642	0.01831	2	320:
20% ##	8/40 [00:01<00:05,	5.68it/s]				
479/499	0.206G	0.01855	0.009642	0.01831	2	320:
22% ##2	9/40 [00:01<00:05,	5.56it/s]				
479/499	0.206G	0.0194	0.01048	0.0189	4	320:
22% ##2	9/40 [00:01<00:05,	5.56it/s]				
479/499	0.206G	0.0194	0.01048	0.0189	4	320:
25% ##5	10/40 [00:01<00:05,	5.60it/s]				
479/499	0.206G	0.0196	0.01017	0.01903	2	320:
25% ##5	10/40 [00:01<00:05,	5.60it/s]				
479/499	0.206G	0.0196	0.01017	0.01903	2	320:
28% ##7	11/40 [00:01<00:05,	5.67it/s]				
479/499	0.206G	0.01853	0.009591	0.01924	1	320:
28% ##7	11/40 [00:02<00:05,	5.67it/s]				
479/499	0.206G	0.01853	0.009591	0.01924	1	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
479/499	0.206G	0.01769	0.00912	0.01948	1	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
479/499	0.206G	0.01769	0.00912	0.01948	1	320:
32% ###2	13/40 [00:02<00:04,	5.67it/s]				
479/499	0.206G	0.01799	0.008853	0.01967	2	320:
32% ###2	13/40 [00:02<00:04,	5.67it/s]				
479/499	0.206G	0.01799	0.008853	0.01967	2	320:
35% ###5	14/40 [00:02<00:04,	5.71it/s]				
479/499	0.206G	0.01824	0.008877	0.02012	2	320:
35% ###5	14/40 [00:02<00:04,	5.71it/s]				
479/499	0.206G	0.01824	0.008877	0.02012	2	320:
38% ###7	15/40 [00:02<00:04,	5.59it/s]				
479/499	0.206G	0.01805	0.008896	0.01974	2	320:
38% ###7	15/40 [00:02<00:04,	5.59it/s]				
479/499	0.206G	0.01805	0.008896	0.01974	2	320:
40% ####	16/40 [00:02<00:04,	5.64it/s]				
479/499	0.206G	0.01775	0.009019	0.02016	4	320:
40% ####	16/40 [00:03<00:04,	5.64it/s]				
479/499	0.206G	0.01775	0.009019	0.02016	4	320:
42% ####2	17/40 [00:03<00:04,	5.55it/s]				
479/499	0.206G	0.0176	0.008769	0.01982	2	320:
42% ####2	17/40 [00:03<00:04,	5.55it/s]				
479/499	0.206G	0.0176	0.008769	0.01982	2	320:
45% ####5	18/40 [00:03<00:03,	5.78it/s]				
479/499	0.206G	0.01726	0.008673	0.01957	2	320:

45% #####5	18/40 [00:03<00:03,	5.78it/s]				
479/499	0.206G	0.01726	0.008673	0.01957	2	320:
48% #####7	19/40 [00:03<00:03,	5.77it/s]				
479/499	0.206G	0.01895	0.008597	0.01948	2	320:
48% #####7	19/40 [00:03<00:03,	5.77it/s]				
479/499	0.206G	0.01895	0.008597	0.01948	2	320:
50% #####	20/40 [00:03<00:03,	5.35it/s]				
479/499	0.206G	0.02031	0.00855	0.02003	2	320:
50% #####	20/40 [00:03<00:03,	5.35it/s]				
479/499	0.206G	0.02031	0.00855	0.02003	2	320:
52% #####2	21/40 [00:03<00:03,	5.34it/s]				
479/499	0.206G	0.02002	0.008563	0.02042	3	320:
52% #####2	21/40 [00:03<00:03,	5.34it/s]				
479/499	0.206G	0.02002	0.008563	0.02042	3	320:
55% #####5	22/40 [00:03<00:03,	5.19it/s]				
479/499	0.206G	0.0202	0.008759	0.02028	4	320:
55% #####5	22/40 [00:04<00:03,	5.19it/s]				
479/499	0.206G	0.0202	0.008759	0.02028	4	320:
57% #####7	23/40 [00:04<00:03,	5.23it/s]				
479/499	0.206G	0.02016	0.008665	0.02009	2	320:
57% #####7	23/40 [00:04<00:03,	5.23it/s]				
479/499	0.206G	0.02016	0.008665	0.02009	2	320:
60% #####	24/40 [00:04<00:03,	5.19it/s]				
479/499	0.206G	0.02055	0.008667	0.01981	2	320:
60% #####	24/40 [00:04<00:03,	5.19it/s]				
479/499	0.206G	0.02055	0.008667	0.01981	2	320:
62% #####2	25/40 [00:04<00:02,	5.17it/s]				
479/499	0.206G	0.02039	0.008447	0.01956	1	320:
62% #####2	25/40 [00:04<00:02,	5.17it/s]				
479/499	0.206G	0.02039	0.008447	0.01956	1	320:
65% #####5	26/40 [00:04<00:02,	5.34it/s]				
479/499	0.206G	0.02056	0.008425	0.01961	3	320:
65% #####5	26/40 [00:04<00:02,	5.34it/s]				
479/499	0.206G	0.02056	0.008425	0.01961	3	320:
68% #####7	27/40 [00:04<00:02,	5.33it/s]				
479/499	0.206G	0.02014	0.00824	0.0193	1	320:
68% #####7	27/40 [00:05<00:02,	5.33it/s]				
479/499	0.206G	0.02014	0.00824	0.0193	1	320:
70% #####	28/40 [00:05<00:02,	5.47it/s]				
479/499	0.206G	0.01974	0.008048	0.01907	1	320:
70% #####	28/40 [00:05<00:02,	5.47it/s]				
479/499	0.206G	0.01974	0.008048	0.01907	1	320:
72% #####2	29/40 [00:05<00:01,	5.57it/s]				
479/499	0.206G	0.01948	0.007958	0.01903	1	320:
72% #####2	29/40 [00:05<00:01,	5.57it/s]				
479/499	0.206G	0.01948	0.007958	0.01903	1	320:
75% #####5	30/40 [00:05<00:01,	5.52it/s]				
479/499	0.206G	0.0194	0.008038	0.01916	4	320:

75%	#####5		30/40	[00:05<00:01,	5.52it/s]				
	479/499		0.206G	0.0194	0.008038	0.01916	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.56it/s]				
	479/499		0.206G	0.01948	0.00801	0.01897	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.56it/s]				
	479/499		0.206G	0.01948	0.00801	0.01897	2	320:	
80%	#####		32/40	[00:05<00:01,	5.63it/s]				
	479/499		0.206G	0.01982	0.00812	0.01893	4	320:	
80%	#####		32/40	[00:05<00:01,	5.63it/s]				
	479/499		0.206G	0.01982	0.00812	0.01893	4	320:	
82%	#####2		33/40	[00:05<00:01,	5.67it/s]				
	479/499		0.206G	0.01964	0.008221	0.01901	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.67it/s]				
	479/499		0.206G	0.01964	0.008221	0.01901	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.56it/s]				
	479/499		0.206G	0.0198	0.008344	0.01904	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.56it/s]				
	479/499		0.206G	0.0198	0.008344	0.01904	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.64it/s]				
	479/499		0.206G	0.02008	0.00853	0.01923	4	320:	
88%	#####7		35/40	[00:06<00:00,	5.64it/s]				
	479/499		0.206G	0.02008	0.00853	0.01923	4	320:	
90%	#####		36/40	[00:06<00:00,	5.54it/s]				
	479/499		0.206G	0.02106	0.008552	0.01921	2	320:	
90%	#####		36/40	[00:06<00:00,	5.54it/s]				
	479/499		0.206G	0.02106	0.008552	0.01921	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.48it/s]				
	479/499		0.206G	0.02085	0.00848	0.01911	2	320:	
92%	#####2		37/40	[00:06<00:00,	5.48it/s]				
	479/499		0.206G	0.02085	0.00848	0.01911	2	320:	
95%	#####5		38/40	[00:06<00:00,	5.43it/s]				
	479/499		0.206G	0.02058	0.008373	0.01894	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.43it/s]				
	479/499		0.206G	0.02058	0.008373	0.01894	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.52it/s]				
	479/499		0.206G	0.02051	0.008542	0.0189	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.52it/s]				
	479/499		0.206G	0.02051	0.008542	0.0189	4	320:	
100%	#####		40/40	[00:07<00:00,	5.60it/s]				
	479/499		0.206G	0.02051	0.008542	0.0189	4	320:	
100%	#####		40/40	[00:07<00:00,	5.55it/s]				

		Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]			
		Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 12.80it/s]			
		Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:01, 15.37it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	14.84it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.04it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.02it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.73it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	15.08it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	15.95it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20	[00:01<00:00,	17.15it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.34it/s]		
	all	40	40	0.976	0.975	0.993
0.798						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
480/499	0.206G	0.01959	0.007108	0.03285	2	320:
0%	0/40	[00:00<?,	?it/s]			
480/499	0.206G	0.01959	0.007108	0.03285	2	320:
2% 2	1/40	[00:00<00:07,	5.33it/s]			
480/499	0.206G	0.02507	0.006908	0.02488	2	320:
2% 2	1/40	[00:00<00:07,	5.33it/s]			
480/499	0.206G	0.02507	0.006908	0.02488	2	320:
5% 5	2/40	[00:00<00:07,	5.30it/s]			
480/499	0.206G	0.02508	0.009643	0.02343	4	320:
5% 5	2/40	[00:00<00:07,	5.30it/s]			
480/499	0.206G	0.02508	0.009643	0.02343	4	320:
8% 7	3/40	[00:00<00:06,	5.32it/s]			
480/499	0.206G	0.02423	0.0108	0.02285	4	320:
8% 7	3/40	[00:00<00:06,	5.32it/s]			
480/499	0.206G	0.02423	0.0108	0.02285	4	320:
10% #	4/40	[00:00<00:07,	4.57it/s]			
480/499	0.206G	0.02194	0.01018	0.02242	1	320:
10% #	4/40	[00:01<00:07,	4.57it/s]			
480/499	0.206G	0.02194	0.01018	0.02242	1	320:
12% #2	5/40	[00:01<00:07,	4.66it/s]			
480/499	0.206G	0.02208	0.01196	0.02193	4	320:
12% #2	5/40	[00:01<00:07,	4.66it/s]			
480/499	0.206G	0.02208	0.01196	0.02193	4	320:
15% #5	6/40	[00:01<00:07,	4.75it/s]			
480/499	0.206G	0.02739	0.01094	0.02333	2	320:
15% #5	6/40	[00:01<00:07,	4.75it/s]			

480/499	0.206G	0.02739	0.01094	0.02333	2	320:
18% #7	7/40 [00:01<00:06,	4.92it/s]				
480/499	0.206G	0.02961	0.01029	0.02403	2	320:
18% #7	7/40 [00:01<00:06,	4.92it/s]				
480/499	0.206G	0.02961	0.01029	0.02403	2	320:
20% ##	8/40 [00:01<00:06,	4.80it/s]				
480/499	0.206G	0.0274	0.009533	0.02282	1	320:
20% ##	8/40 [00:01<00:06,	4.80it/s]				
480/499	0.206G	0.0274	0.009533	0.02282	1	320:
22% ##2	9/40 [00:01<00:06,	4.84it/s]				
480/499	0.206G	0.02894	0.01004	0.02265	4	320:
22% ##2	9/40 [00:02<00:06,	4.84it/s]				
480/499	0.206G	0.02894	0.01004	0.02265	4	320:
25% ##5	10/40 [00:02<00:06,	4.84it/s]				
480/499	0.206G	0.02806	0.009897	0.02231	2	320:
25% ##5	10/40 [00:02<00:06,	4.84it/s]				
480/499	0.206G	0.02806	0.009897	0.02231	2	320:
28% ##7	11/40 [00:02<00:06,	4.75it/s]				
480/499	0.206G	0.02696	0.009353	0.02179	1	320:
28% ##7	11/40 [00:02<00:06,	4.75it/s]				
480/499	0.206G	0.02696	0.009353	0.02179	1	320:
30% ###	12/40 [00:02<00:05,	4.85it/s]				
480/499	0.206G	0.02534	0.008853	0.02129	1	320:
30% ###	12/40 [00:02<00:05,	4.85it/s]				
480/499	0.206G	0.02534	0.008853	0.02129	1	320:
32% ###2	13/40 [00:02<00:05,	4.95it/s]				
480/499	0.206G	0.02579	0.009268	0.02122	4	320:
32% ###2	13/40 [00:02<00:05,	4.95it/s]				
480/499	0.206G	0.02579	0.009268	0.02122	4	320:
35% ###5	14/40 [00:02<00:05,	4.94it/s]				
480/499	0.206G	0.02499	0.008859	0.02084	1	320:
35% ###5	14/40 [00:03<00:05,	4.94it/s]				
480/499	0.206G	0.02499	0.008859	0.02084	1	320:
38% ###7	15/40 [00:03<00:05,	4.92it/s]				
480/499	0.206G	0.0244	0.008603	0.0204	1	320:
38% ###7	15/40 [00:03<00:05,	4.92it/s]				
480/499	0.206G	0.0244	0.008603	0.0204	1	320:
40% ####	16/40 [00:03<00:04,	5.04it/s]				
480/499	0.206G	0.02403	0.009018	0.02034	4	320:
40% ####	16/40 [00:03<00:04,	5.04it/s]				
480/499	0.206G	0.02403	0.009018	0.02034	4	320:
42% ####2	17/40 [00:03<00:04,	5.00it/s]				
480/499	0.206G	0.02365	0.009437	0.02003	4	320:
42% ####2	17/40 [00:03<00:04,	5.00it/s]				
480/499	0.206G	0.02365	0.009437	0.02003	4	320:
45% ####5	18/40 [00:03<00:04,	5.08it/s]				
480/499	0.206G	0.02306	0.009112	0.01966	1	320:
45% ####5	18/40 [00:03<00:04,	5.08it/s]				

480/499	0.206G	0.02306	0.009112	0.01966	1	320:
48% #####7	19/40 [00:03<00:03,	5.28it/s]				
480/499	0.206G	0.02289	0.009203	0.01963	2	320:
48% #####7	19/40 [00:04<00:03,	5.28it/s]				
480/499	0.206G	0.02289	0.009203	0.01963	2	320:
50% #####	20/40 [00:04<00:03,	5.30it/s]				
480/499	0.206G	0.02252	0.009157	0.01952	2	320:
50% #####	20/40 [00:04<00:03,	5.30it/s]				
480/499	0.206G	0.02252	0.009157	0.01952	2	320:
52% #####2	21/40 [00:04<00:03,	5.16it/s]				
480/499	0.206G	0.02218	0.008954	0.01937	1	320:
52% #####2	21/40 [00:04<00:03,	5.16it/s]				
480/499	0.206G	0.02218	0.008954	0.01937	1	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
480/499	0.206G	0.02247	0.009378	0.01933	4	320:
55% #####5	22/40 [00:04<00:03,	5.34it/s]				
480/499	0.206G	0.02247	0.009378	0.01933	4	320:
57% #####7	23/40 [00:04<00:03,	5.27it/s]				
480/499	0.206G	0.02214	0.009189	0.01926	2	320:
57% #####7	23/40 [00:04<00:03,	5.27it/s]				
480/499	0.206G	0.02214	0.009189	0.01926	2	320:
60% #####	24/40 [00:04<00:02,	5.47it/s]				
480/499	0.206G	0.02158	0.008913	0.01896	1	320:
60% #####	24/40 [00:04<00:02,	5.47it/s]				
480/499	0.206G	0.02158	0.008913	0.01896	1	320:
62% #####2	25/40 [00:04<00:02,	5.72it/s]				
480/499	0.206G	0.0223	0.008997	0.01976	2	320:
62% #####2	25/40 [00:05<00:02,	5.72it/s]				
480/499	0.206G	0.0223	0.008997	0.01976	2	320:
65% #####5	26/40 [00:05<00:02,	5.32it/s]				
480/499	0.206G	0.02263	0.009102	0.01993	3	320:
65% #####5	26/40 [00:05<00:02,	5.32it/s]				
480/499	0.206G	0.02263	0.009102	0.01993	3	320:
68% #####7	27/40 [00:05<00:02,	5.33it/s]				
480/499	0.206G	0.02354	0.00907	0.01983	3	320:
68% #####7	27/40 [00:05<00:02,	5.33it/s]				
480/499	0.206G	0.02354	0.00907	0.01983	3	320:
70% #####	28/40 [00:05<00:02,	5.46it/s]				
480/499	0.206G	0.02396	0.009192	0.01997	2	320:
70% #####	28/40 [00:05<00:02,	5.46it/s]				
480/499	0.206G	0.02396	0.009192	0.01997	2	320:
72% #####2	29/40 [00:05<00:02,	5.41it/s]				
480/499	0.206G	0.02354	0.008997	0.01977	1	320:
72% #####2	29/40 [00:05<00:02,	5.41it/s]				
480/499	0.206G	0.02354	0.008997	0.01977	1	320:
75% #####5	30/40 [00:05<00:01,	5.52it/s]				
480/499	0.206G	0.02316	0.008873	0.01973	1	320:
75% #####5	30/40 [00:06<00:01,	5.52it/s]				

480/499	0.206G	0.02316	0.008873	0.01973	1	320:
78% #####7	31/40 [00:06<00:01,	5.61it/s]				
480/499	0.206G	0.0232	0.009021	0.0199	3	320:
78% #####7	31/40 [00:06<00:01,	5.61it/s]				
480/499	0.206G	0.0232	0.009021	0.0199	3	320:
80% #####	32/40 [00:06<00:01,	5.50it/s]				
480/499	0.206G	0.02314	0.009183	0.01992	4	320:
80% #####	32/40 [00:06<00:01,	5.50it/s]				
480/499	0.206G	0.02314	0.009183	0.01992	4	320:
82% #####2	33/40 [00:06<00:01,	5.59it/s]				
480/499	0.206G	0.02363	0.009109	0.01982	2	320:
82% #####2	33/40 [00:06<00:01,	5.59it/s]				
480/499	0.206G	0.02363	0.009109	0.01982	2	320:
85% #####5	34/40 [00:06<00:01,	5.37it/s]				
480/499	0.206G	0.02383	0.009372	0.01978	4	320:
85% #####5	34/40 [00:06<00:01,	5.37it/s]				
480/499	0.206G	0.02383	0.009372	0.01978	4	320:
88% #####7	35/40 [00:06<00:00,	5.34it/s]				
480/499	0.206G	0.02434	0.009432	0.01994	3	320:
88% #####7	35/40 [00:06<00:00,	5.34it/s]				
480/499	0.206G	0.02434	0.009432	0.01994	3	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
480/499	0.206G	0.02464	0.009515	0.0199	4	320:
90% #####	36/40 [00:07<00:00,	5.47it/s]				
480/499	0.206G	0.02464	0.009515	0.0199	4	320:
92% #####2	37/40 [00:07<00:00,	5.43it/s]				
480/499	0.206G	0.02419	0.009342	0.01969	1	320:
92% #####2	37/40 [00:07<00:00,	5.43it/s]				
480/499	0.206G	0.02419	0.009342	0.01969	1	320:
95% #####5	38/40 [00:07<00:00,	5.52it/s]				
480/499	0.206G	0.02375	0.009163	0.01946	1	320:
95% #####5	38/40 [00:07<00:00,	5.52it/s]				
480/499	0.206G	0.02375	0.009163	0.01946	1	320:
98% #####7	39/40 [00:07<00:00,	5.61it/s]				
480/499	0.206G	0.02388	0.009269	0.01945	4	320:
98% #####7	39/40 [00:07<00:00,	5.61it/s]				
480/499	0.206G	0.02388	0.009269	0.01945	4	320:
100% #####	40/40 [00:07<00:00,	5.52it/s]				
480/499	0.206G	0.02388	0.009269	0.01945	4	320:
100% #####	40/40 [00:07<00:00,	5.22it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:01, 16.71it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20 [00:00<00:00, 17.60it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	30% ###		6/20	[00:00<00:00,	17.91it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	40% ####		8/20	[00:00<00:00,	18.04it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	50% #####		10/20	[00:00<00:00,	17.11it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	60% #####		12/20	[00:00<00:00,	16.75it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	70% #####		14/20	[00:00<00:00,	17.22it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	80% #####		16/20	[00:00<00:00,	17.55it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5		19/20	[00:01<00:00,	17.51it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	100% #####		20/20	[00:01<00:00,	17.08it/s]			
	all		40		40	0.979	0.975	0.991

0.8

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
481/499	0.206G	0.01065	0.003918	0.0107	1	320:
0%		0/40	[00:00<?, ?it/s]			
481/499	0.206G	0.01065	0.003918	0.0107	1	320:
2% 2		1/40	[00:00<00:06,	5.71it/s]		
481/499	0.206G	0.009096	0.00327	0.01309	1	320:
2% 2		1/40	[00:00<00:06,	5.71it/s]		
481/499	0.206G	0.009096	0.00327	0.01309	1	320:
5% 5		2/40	[00:00<00:06,	5.50it/s]		
481/499	0.206G	0.01859	0.004795	0.0157	2	320:
5% 5		2/40	[00:00<00:06,	5.50it/s]		
481/499	0.206G	0.01859	0.004795	0.0157	2	320:
8% 7		3/40	[00:00<00:06,	5.64it/s]		
481/499	0.206G	0.0188	0.00481	0.01516	1	320:
8% 7		3/40	[00:00<00:06,	5.64it/s]		
481/499	0.206G	0.0188	0.00481	0.01516	1	320:
10% #		4/40	[00:00<00:06,	5.61it/s]		
481/499	0.206G	0.01613	0.004622	0.01543	1	320:
10% #		4/40	[00:00<00:06,	5.61it/s]		
481/499	0.206G	0.01613	0.004622	0.01543	1	320:
12% #2		5/40	[00:00<00:06,	5.75it/s]		
481/499	0.206G	0.01512	0.004407	0.01512	1	320:
12% #2		5/40	[00:01<00:06,	5.75it/s]		
481/499	0.206G	0.01512	0.004407	0.01512	1	320:
15% #5		6/40	[00:01<00:05,	5.95it/s]		
481/499	0.206G	0.01394	0.004233	0.01509	1	320:
15% #5		6/40	[00:01<00:05,	5.95it/s]		
481/499	0.206G	0.01394	0.004233	0.01509	1	320:

18% #7	7/40 [00:01<00:05,	5.83it/s]				
481/499	0.206G	0.01735	0.004563	0.0157	2	320:
18% #7	7/40 [00:01<00:05,	5.83it/s]				
481/499	0.206G	0.01735	0.004563	0.0157	2	320:
20% ##	8/40 [00:01<00:05,	5.71it/s]				
481/499	0.206G	0.01643	0.004873	0.01593	2	320:
20% ##	8/40 [00:01<00:05,	5.71it/s]				
481/499	0.206G	0.01643	0.004873	0.01593	2	320:
22% ##2	9/40 [00:01<00:05,	5.59it/s]				
481/499	0.206G	0.01855	0.005642	0.01717	4	320:
22% ##2	9/40 [00:01<00:05,	5.59it/s]				
481/499	0.206G	0.01855	0.005642	0.01717	4	320:
25% ##5	10/40 [00:01<00:05,	5.51it/s]				
481/499	0.206G	0.01821	0.005745	0.0169	2	320:
25% ##5	10/40 [00:01<00:05,	5.51it/s]				
481/499	0.206G	0.01821	0.005745	0.0169	2	320:
28% ##7	11/40 [00:01<00:05,	5.60it/s]				
481/499	0.206G	0.01945	0.006197	0.01708	4	320:
28% ##7	11/40 [00:02<00:05,	5.60it/s]				
481/499	0.206G	0.01945	0.006197	0.01708	4	320:
30% ###	12/40 [00:02<00:05,	5.37it/s]				
481/499	0.206G	0.02022	0.006545	0.01833	2	320:
30% ###	12/40 [00:02<00:05,	5.37it/s]				
481/499	0.206G	0.02022	0.006545	0.01833	2	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
481/499	0.206G	0.02014	0.006837	0.01972	4	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
481/499	0.206G	0.02014	0.006837	0.01972	4	320:
35% ###5	14/40 [00:02<00:04,	5.48it/s]				
481/499	0.206G	0.01941	0.006835	0.01936	2	320:
35% ###5	14/40 [00:02<00:04,	5.48it/s]				
481/499	0.206G	0.01941	0.006835	0.01936	2	320:
38% ###7	15/40 [00:02<00:04,	5.43it/s]				
481/499	0.206G	0.0192	0.006858	0.01906	2	320:
38% ###7	15/40 [00:02<00:04,	5.43it/s]				
481/499	0.206G	0.0192	0.006858	0.01906	2	320:
40% ####	16/40 [00:02<00:04,	5.67it/s]				
481/499	0.206G	0.01837	0.006661	0.01871	1	320:
40% ####	16/40 [00:03<00:04,	5.67it/s]				
481/499	0.206G	0.01837	0.006661	0.01871	1	320:
42% ####2	17/40 [00:03<00:04,	5.57it/s]				
481/499	0.206G	0.01885	0.007273	0.01881	4	320:
42% ####2	17/40 [00:03<00:04,	5.57it/s]				
481/499	0.206G	0.01885	0.007273	0.01881	4	320:
45% ####5	18/40 [00:03<00:03,	5.64it/s]				
481/499	0.206G	0.01827	0.007248	0.01845	2	320:
45% ####5	18/40 [00:03<00:03,	5.64it/s]				
481/499	0.206G	0.01827	0.007248	0.01845	2	320:

48% ####7	19/40 [00:03<00:03, 5.52it/s]					
481/499	0.206G 0.01774 0.007313 0.01878	2	320:			
48% ####7	19/40 [00:03<00:03, 5.52it/s]					
481/499	0.206G 0.01774 0.007313 0.01878	2	320:			
50% #####	20/40 [00:03<00:03, 5.76it/s]					
481/499	0.206G 0.01839 0.007673 0.01885	4	320:			
50% #####	20/40 [00:03<00:03, 5.76it/s]					
481/499	0.206G 0.01839 0.007673 0.01885	4	320:			
52% #####2	21/40 [00:03<00:03, 5.63it/s]					
481/499	0.206G 0.01977 0.00782 0.01878	2	320:			
52% #####2	21/40 [00:03<00:03, 5.63it/s]					
481/499	0.206G 0.01977 0.00782 0.01878	2	320:			
55% #####5	22/40 [00:03<00:03, 5.46it/s]					
481/499	0.206G 0.01944 0.007655 0.01851	1	320:			
55% #####5	22/40 [00:04<00:03, 5.46it/s]					
481/499	0.206G 0.01944 0.007655 0.01851	1	320:			
57% #####7	23/40 [00:04<00:03, 5.33it/s]					
481/499	0.206G 0.01902 0.007662 0.01868	2	320:			
57% #####7	23/40 [00:04<00:03, 5.33it/s]					
481/499	0.206G 0.01902 0.007662 0.01868	2	320:			
60% #####	24/40 [00:04<00:02, 5.47it/s]					
481/499	0.206G 0.01863 0.007555 0.01857	2	320:			
60% #####	24/40 [00:04<00:02, 5.47it/s]					
481/499	0.206G 0.01863 0.007555 0.01857	2	320:			
62% #####2	25/40 [00:04<00:02, 5.43it/s]					
481/499	0.206G 0.01831 0.007606 0.01836	2	320:			
62% #####2	25/40 [00:04<00:02, 5.43it/s]					
481/499	0.206G 0.01831 0.007606 0.01836	2	320:			
65% #####5	26/40 [00:04<00:02, 5.50it/s]					
481/499	0.206G 0.01876 0.007619 0.01897	2	320:			
65% #####5	26/40 [00:04<00:02, 5.50it/s]					
481/499	0.206G 0.01876 0.007619 0.01897	2	320:			
68% #####7	27/40 [00:04<00:02, 5.63it/s]					
481/499	0.206G 0.01838 0.007452 0.01881	1	320:			
68% #####7	27/40 [00:05<00:02, 5.63it/s]					
481/499	0.206G 0.01838 0.007452 0.01881	1	320:			
70% #####	28/40 [00:05<00:02, 5.38it/s]					
481/499	0.206G 0.01977 0.007436 0.01896	2	320:			
70% #####	28/40 [00:05<00:02, 5.38it/s]					
481/499	0.206G 0.01977 0.007436 0.01896	2	320:			
72% #####2	29/40 [00:05<00:01, 5.50it/s]					
481/499	0.206G 0.01946 0.007359 0.01898	2	320:			
72% #####2	29/40 [00:05<00:01, 5.50it/s]					
481/499	0.206G 0.01946 0.007359 0.01898	2	320:			
75% #####5	30/40 [00:05<00:01, 5.45it/s]					
481/499	0.206G 0.01926 0.007244 0.01889	1	320:			
75% #####5	30/40 [00:05<00:01, 5.45it/s]					
481/499	0.206G 0.01926 0.007244 0.01889	1	320:			

78% #####7		31/40	[00:05<00:01,	5.68it/s]			
481/499		0.206G	0.01902	0.007318	0.01983	2	320:
78% #####7		31/40	[00:05<00:01,	5.68it/s]			
481/499		0.206G	0.01902	0.007318	0.01983	2	320:
80% #####		32/40	[00:05<00:01,	5.57it/s]			
481/499		0.206G	0.01917	0.007497	0.02017	4	320:
80% #####		32/40	[00:05<00:01,	5.57it/s]			
481/499		0.206G	0.01917	0.007497	0.02017	4	320:
82% #####2		33/40	[00:05<00:01,	5.50it/s]			
481/499		0.206G	0.0189	0.007363	0.01988	1	320:
82% #####2		33/40	[00:06<00:01,	5.50it/s]			
481/499		0.206G	0.0189	0.007363	0.01988	1	320:
85% #####5		34/40	[00:06<00:01,	5.73it/s]			
481/499		0.206G	0.01903	0.007531	0.01995	4	320:
85% #####5		34/40	[00:06<00:01,	5.73it/s]			
481/499		0.206G	0.01903	0.007531	0.01995	4	320:
88% #####7		35/40	[00:06<00:00,	5.32it/s]			
481/499		0.206G	0.01928	0.007714	0.01997	4	320:
88% #####7		35/40	[00:06<00:00,	5.32it/s]			
481/499		0.206G	0.01928	0.007714	0.01997	4	320:
90% #####		36/40	[00:06<00:00,	5.46it/s]			
481/499		0.206G	0.01954	0.008028	0.02003	4	320:
90% #####		36/40	[00:06<00:00,	5.46it/s]			
481/499		0.206G	0.01954	0.008028	0.02003	4	320:
92% #####2		37/40	[00:06<00:00,	5.54it/s]			
481/499		0.206G	0.01981	0.008059	0.01989	2	320:
92% #####2		37/40	[00:06<00:00,	5.54it/s]			
481/499		0.206G	0.01981	0.008059	0.01989	2	320:
95% #####5		38/40	[00:06<00:00,	5.47it/s]			
481/499		0.206G	0.02066	0.008149	0.01987	2	320:
95% #####5		38/40	[00:07<00:00,	5.47it/s]			
481/499		0.206G	0.02066	0.008149	0.01987	2	320:
98% #####7		39/40	[00:07<00:00,	5.24it/s]			
481/499		0.206G	0.02038	0.008021	0.0197	1	320:
98% #####7		39/40	[00:07<00:00,	5.24it/s]			
481/499		0.206G	0.02038	0.008021	0.0197	1	320:
100% #####		40/40	[00:07<00:00,	5.32it/s]			
481/499		0.206G	0.02038	0.008021	0.0197	1	320:
100% #####		40/40	[00:07<00:00,	5.52it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 12.80it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 12.41it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 14.09it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00, 14.78it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00, 14.57it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00, 14.14it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00, 14.92it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00, 14.71it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00, 15.67it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00, 15.77it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00, 14.83it/s]			
	all	40	40	0.977	0.975	0.99

0.794

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
482/499	0.206G	0.01086	0.006759	0.01507	2	320:
0%	0/40	[00:00<?, ?it/s]				
482/499	0.206G	0.01086	0.006759	0.01507	2	320:
2% 2	1/40	[00:00<00:07, 5.28it/s]				
482/499	0.206G	0.0265	0.00812	0.02546	3	320:
2% 2	1/40	[00:00<00:07, 5.28it/s]				
482/499	0.206G	0.0265	0.00812	0.02546	3	320:
5% 5	2/40	[00:00<00:07, 5.06it/s]				
482/499	0.206G	0.02433	0.01008	0.0222	4	320:
5% 5	2/40	[00:00<00:07, 5.06it/s]				
482/499	0.206G	0.02433	0.01008	0.0222	4	320:
8% 7	3/40	[00:00<00:07, 4.99it/s]				
482/499	0.206G	0.02397	0.009199	0.02137	2	320:
8% 7	3/40	[00:00<00:07, 4.99it/s]				
482/499	0.206G	0.02397	0.009199	0.02137	2	320:
10% #	4/40	[00:00<00:07, 4.96it/s]				
482/499	0.206G	0.02141	0.007983	0.02114	1	320:
10% #	4/40	[00:00<00:07, 4.96it/s]				
482/499	0.206G	0.02141	0.007983	0.02114	1	320:
12% #2	5/40	[00:00<00:06, 5.09it/s]				
482/499	0.206G	0.0208	0.008831	0.02108	4	320:
12% #2	5/40	[00:01<00:06, 5.09it/s]				
482/499	0.206G	0.0208	0.008831	0.02108	4	320:
15% #5	6/40	[00:01<00:06, 5.17it/s]				
482/499	0.206G	0.02068	0.008738	0.02149	2	320:
15% #5	6/40	[00:01<00:06, 5.17it/s]				

482/499	0.206G	0.02068	0.008738	0.02149	2	320:
18% #7	7/40 [00:01<00:06,	5.07it/s]				
482/499	0.206G	0.01809	0.007749	0.01881	0	320:
18% #7	7/40 [00:01<00:06,	5.07it/s]				
482/499	0.206G	0.01809	0.007749	0.01881	0	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
482/499	0.206G	0.01709	0.007231	0.01831	1	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
482/499	0.206G	0.01709	0.007231	0.01831	1	320:
22% ##2	9/40 [00:01<00:05,	5.70it/s]				
482/499	0.206G	0.01656	0.006809	0.01793	1	320:
22% ##2	9/40 [00:01<00:05,	5.70it/s]				
482/499	0.206G	0.01656	0.006809	0.01793	1	320:
25% ###5	10/40 [00:01<00:05,	5.56it/s]				
482/499	0.206G	0.01708	0.007363	0.01782	4	320:
25% ###5	10/40 [00:02<00:05,	5.56it/s]				
482/499	0.206G	0.01708	0.007363	0.01782	4	320:
28% ###7	11/40 [00:02<00:05,	5.64it/s]				
482/499	0.206G	0.01707	0.007469	0.01746	2	320:
28% ###7	11/40 [00:02<00:05,	5.64it/s]				
482/499	0.206G	0.01707	0.007469	0.01746	2	320:
30% ###	12/40 [00:02<00:04,	5.69it/s]				
482/499	0.206G	0.01727	0.007411	0.01754	2	320:
30% ###	12/40 [00:02<00:04,	5.69it/s]				
482/499	0.206G	0.01727	0.007411	0.01754	2	320:
32% ###2	13/40 [00:02<00:04,	5.71it/s]				
482/499	0.206G	0.01604	0.00694	0.01629	0	320:
32% ###2	13/40 [00:02<00:04,	5.71it/s]				
482/499	0.206G	0.01604	0.00694	0.01629	0	320:
35% ###5	14/40 [00:02<00:04,	5.90it/s]				
482/499	0.206G	0.01651	0.007551	0.01635	4	320:
35% ###5	14/40 [00:02<00:04,	5.90it/s]				
482/499	0.206G	0.01651	0.007551	0.01635	4	320:
38% ###7	15/40 [00:02<00:04,	5.88it/s]				
482/499	0.206G	0.01614	0.007237	0.01609	1	320:
38% ###7	15/40 [00:02<00:04,	5.88it/s]				
482/499	0.206G	0.01614	0.007237	0.01609	1	320:
40% ####	16/40 [00:02<00:04,	5.84it/s]				
482/499	0.206G	0.01691	0.007954	0.01633	4	320:
40% ####	16/40 [00:03<00:04,	5.84it/s]				
482/499	0.206G	0.01691	0.007954	0.01633	4	320:
42% ####2	17/40 [00:03<00:03,	5.83it/s]				
482/499	0.206G	0.01735	0.00793	0.01642	2	320:
42% ####2	17/40 [00:03<00:03,	5.83it/s]				
482/499	0.206G	0.01735	0.00793	0.01642	2	320:
45% ####5	18/40 [00:03<00:03,	5.83it/s]				
482/499	0.206G	0.01757	0.008179	0.01658	4	320:
45% ####5	18/40 [00:03<00:03,	5.83it/s]				

482/499	0.206G	0.01757	0.008179	0.01658	4	320:
48% #####7	19/40 [00:03<00:03,	5.52it/s]				
482/499	0.206G	0.01749	0.00811	0.01656	2	320:
48% #####7	19/40 [00:03<00:03,	5.52it/s]				
482/499	0.206G	0.01749	0.00811	0.01656	2	320:
50% #####	20/40 [00:03<00:03,	5.61it/s]				
482/499	0.206G	0.01828	0.008014	0.01651	2	320:
50% #####	20/40 [00:03<00:03,	5.61it/s]				
482/499	0.206G	0.01828	0.008014	0.01651	2	320:
52% #####2	21/40 [00:03<00:03,	5.38it/s]				
482/499	0.206G	0.01843	0.008154	0.0173	4	320:
52% #####2	21/40 [00:03<00:03,	5.38it/s]				
482/499	0.206G	0.01843	0.008154	0.0173	4	320:
55% #####5	22/40 [00:03<00:03,	5.48it/s]				
482/499	0.206G	0.01781	0.007952	0.0171	1	320:
55% #####5	22/40 [00:04<00:03,	5.48it/s]				
482/499	0.206G	0.01781	0.007952	0.0171	1	320:
57% #####7	23/40 [00:04<00:03,	5.44it/s]				
482/499	0.206G	0.01762	0.007846	0.0171	2	320:
57% #####7	23/40 [00:04<00:03,	5.44it/s]				
482/499	0.206G	0.01762	0.007846	0.0171	2	320:
60% #####	24/40 [00:04<00:02,	5.69it/s]				
482/499	0.206G	0.01752	0.008098	0.01716	4	320:
60% #####	24/40 [00:04<00:02,	5.69it/s]				
482/499	0.206G	0.01752	0.008098	0.01716	4	320:
62% #####2	25/40 [00:04<00:02,	5.55it/s]				
482/499	0.206G	0.01767	0.008471	0.01714	4	320:
62% #####2	25/40 [00:04<00:02,	5.55it/s]				
482/499	0.206G	0.01767	0.008471	0.01714	4	320:
65% #####5	26/40 [00:04<00:02,	5.48it/s]				
482/499	0.206G	0.01747	0.008293	0.01706	1	320:
65% #####5	26/40 [00:04<00:02,	5.48it/s]				
482/499	0.206G	0.01747	0.008293	0.01706	1	320:
68% #####7	27/40 [00:04<00:02,	5.42it/s]				
482/499	0.206G	0.0183	0.008331	0.01747	2	320:
68% #####7	27/40 [00:05<00:02,	5.42it/s]				
482/499	0.206G	0.0183	0.008331	0.01747	2	320:
70% #####	28/40 [00:05<00:02,	5.53it/s]				
482/499	0.206G	0.01804	0.008302	0.01728	2	320:
70% #####	28/40 [00:05<00:02,	5.53it/s]				
482/499	0.206G	0.01804	0.008302	0.01728	2	320:
72% #####2	29/40 [00:05<00:01,	5.62it/s]				
482/499	0.206G	0.01806	0.00826	0.01729	1	320:
72% #####2	29/40 [00:05<00:01,	5.62it/s]				
482/499	0.206G	0.01806	0.00826	0.01729	1	320:
75% #####5	30/40 [00:05<00:01,	5.66it/s]				
482/499	0.206G	0.01835	0.008217	0.01722	2	320:
75% #####5	30/40 [00:05<00:01,	5.66it/s]				

482/499	0.206G	0.01835	0.008217	0.01722	2	320:
78% #####7	31/40 [00:05<00:01,	5.73it/s]				
482/499	0.206G	0.0184	0.008174	0.01756	2	320:
78% #####7	31/40 [00:05<00:01,	5.73it/s]				
482/499	0.206G	0.0184	0.008174	0.01756	2	320:
80% #####	32/40 [00:05<00:01,	5.46it/s]				
482/499	0.206G	0.01813	0.008107	0.01743	1	320:
80% #####	32/40 [00:05<00:01,	5.46it/s]				
482/499	0.206G	0.01813	0.008107	0.01743	1	320:
82% #####2	33/40 [00:05<00:01,	5.39it/s]				
482/499	0.206G	0.01782	0.007987	0.01728	1	320:
82% #####2	33/40 [00:06<00:01,	5.39it/s]				
482/499	0.206G	0.01782	0.007987	0.01728	1	320:
85% #####5	34/40 [00:06<00:01,	5.52it/s]				
482/499	0.206G	0.01801	0.008002	0.01734	2	320:
85% #####5	34/40 [00:06<00:01,	5.52it/s]				
482/499	0.206G	0.01801	0.008002	0.01734	2	320:
88% #####7	35/40 [00:06<00:00,	5.46it/s]				
482/499	0.206G	0.01899	0.008011	0.01748	2	320:
88% #####7	35/40 [00:06<00:00,	5.46it/s]				
482/499	0.206G	0.01899	0.008011	0.01748	2	320:
90% #####	36/40 [00:06<00:00,	5.42it/s]				
482/499	0.206G	0.01954	0.008222	0.0178	4	320:
90% #####	36/40 [00:06<00:00,	5.42it/s]				
482/499	0.206G	0.01954	0.008222	0.0178	4	320:
92% #####2	37/40 [00:06<00:00,	5.52it/s]				
482/499	0.206G	0.01938	0.008097	0.01768	1	320:
92% #####2	37/40 [00:06<00:00,	5.52it/s]				
482/499	0.206G	0.01938	0.008097	0.01768	1	320:
95% #####5	38/40 [00:06<00:00,	5.60it/s]				
482/499	0.206G	0.01933	0.008099	0.01812	2	320:
95% #####5	38/40 [00:07<00:00,	5.60it/s]				
482/499	0.206G	0.01933	0.008099	0.01812	2	320:
98% #####7	39/40 [00:07<00:00,	5.51it/s]				
482/499	0.206G	0.01935	0.008268	0.01818	4	320:
98% #####7	39/40 [00:07<00:00,	5.51it/s]				
482/499	0.206G	0.01935	0.008268	0.01818	4	320:
100% #####	40/40 [00:07<00:00,	5.59it/s]				
482/499	0.206G	0.01935	0.008268	0.01818	4	320:
100% #####	40/40 [00:07<00:00,	5.52it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%	0/20 [00:00<?, ?it/s]					
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #	2/20 [00:00<00:00,	18.29it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##	4/20 [00:00<00:00,	16.86it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	30% ###		6/20	[00:00<00:00,	17.34it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	40% ####		8/20	[00:00<00:00,	16.77it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	50% #####		10/20	[00:00<00:00,	17.29it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	60% #####		12/20	[00:00<00:00,	17.60it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	70% #####		14/20	[00:00<00:00,	17.82it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	80% #####		16/20	[00:00<00:00,	16.43it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	90% #####		18/20	[00:01<00:00,	15.09it/s]			
	Class		Images	Instances	P	R	mAP50	
mAP50-95:	100% #####		20/20	[00:01<00:00,	16.78it/s]			
	all		40	40	0.977	0.975	0.99	
0.794								

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
483/499	0.206G	0.00871	0.007754	0.01351	2	320:
0%		0/40	[00:00<?, ?it/s]			
483/499	0.206G	0.00871	0.007754	0.01351	2	320:
2% 2		1/40	[00:00<00:06,	6.39it/s]		
483/499	0.206G	0.007544	0.00528	0.01313	1	320:
2% 2		1/40	[00:00<00:06,	6.39it/s]		
483/499	0.206G	0.007544	0.00528	0.01313	1	320:
5% 5		2/40	[00:00<00:06,	6.04it/s]		
483/499	0.206G	0.008668	0.004645	0.0127	1	320:
5% 5		2/40	[00:00<00:06,	6.04it/s]		
483/499	0.206G	0.008668	0.004645	0.0127	1	320:
8% 7		3/40	[00:00<00:06,	6.15it/s]		
483/499	0.206G	0.01228	0.005379	0.01541	2	320:
8% 7		3/40	[00:00<00:06,	6.15it/s]		
483/499	0.206G	0.01228	0.005379	0.01541	2	320:
10% #		4/40	[00:00<00:05,	6.02it/s]		
483/499	0.206G	0.01234	0.004927	0.01546	1	320:
10% #		4/40	[00:00<00:05,	6.02it/s]		
483/499	0.206G	0.01234	0.004927	0.01546	1	320:
12% #2		5/40	[00:00<00:06,	5.75it/s]		
483/499	0.206G	0.01557	0.005601	0.0155	2	320:
12% #2		5/40	[00:01<00:06,	5.75it/s]		
483/499	0.206G	0.01557	0.005601	0.0155	2	320:
15% #5		6/40	[00:01<00:06,	5.58it/s]		
483/499	0.206G	0.01446	0.005652	0.01537	2	320:
15% #5		6/40	[00:01<00:06,	5.58it/s]		
483/499	0.206G	0.01446	0.005652	0.01537	2	320:

18% #7	7/40 [00:01<00:05,	5.82it/s]				
483/499	0.206G	0.01955	0.005555	0.01589	2	320:
18% #7	7/40 [00:01<00:05,	5.82it/s]				
483/499	0.206G	0.01955	0.005555	0.01589	2	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
483/499	0.206G	0.02003	0.006379	0.01631	4	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
483/499	0.206G	0.02003	0.006379	0.01631	4	320:
22% ##2	9/40 [00:01<00:05,	5.57it/s]				
483/499	0.206G	0.01871	0.006048	0.01611	1	320:
22% ##2	9/40 [00:01<00:05,	5.57it/s]				
483/499	0.206G	0.01871	0.006048	0.01611	1	320:
25% ##5	10/40 [00:01<00:05,	5.64it/s]				
483/499	0.206G	0.02028	0.006466	0.01665	2	320:
25% ##5	10/40 [00:01<00:05,	5.64it/s]				
483/499	0.206G	0.02028	0.006466	0.01665	2	320:
28% ##7	11/40 [00:01<00:05,	5.41it/s]				
483/499	0.206G	0.02036	0.007174	0.01691	4	320:
28% ##7	11/40 [00:02<00:05,	5.41it/s]				
483/499	0.206G	0.02036	0.007174	0.01691	4	320:
30% ###	12/40 [00:02<00:05,	5.13it/s]				
483/499	0.206G	0.01981	0.007515	0.01685	4	320:
30% ###	12/40 [00:02<00:05,	5.13it/s]				
483/499	0.206G	0.01981	0.007515	0.01685	4	320:
32% ###2	13/40 [00:02<00:05,	5.19it/s]				
483/499	0.206G	0.0199	0.007205	0.01702	1	320:
32% ###2	13/40 [00:02<00:05,	5.19it/s]				
483/499	0.206G	0.0199	0.007205	0.01702	1	320:
35% ###5	14/40 [00:02<00:04,	5.33it/s]				
483/499	0.206G	0.01903	0.007072	0.01706	1	320:
35% ###5	14/40 [00:02<00:04,	5.33it/s]				
483/499	0.206G	0.01903	0.007072	0.01706	1	320:
38% ###7	15/40 [00:02<00:04,	5.45it/s]				
483/499	0.206G	0.0184	0.007037	0.01689	2	320:
38% ###7	15/40 [00:02<00:04,	5.45it/s]				
483/499	0.206G	0.0184	0.007037	0.01689	2	320:
40% ####	16/40 [00:02<00:04,	5.56it/s]				
483/499	0.206G	0.0187	0.007523	0.01708	4	320:
40% ####	16/40 [00:03<00:04,	5.56it/s]				
483/499	0.206G	0.0187	0.007523	0.01708	4	320:
42% ####2	17/40 [00:03<00:04,	5.35it/s]				
483/499	0.206G	0.01948	0.008124	0.01741	4	320:
42% ####2	17/40 [00:03<00:04,	5.35it/s]				
483/499	0.206G	0.01948	0.008124	0.01741	4	320:
45% ####5	18/40 [00:03<00:04,	5.48it/s]				
483/499	0.206G	0.01923	0.007971	0.01762	1	320:
45% ####5	18/40 [00:03<00:04,	5.48it/s]				
483/499	0.206G	0.01923	0.007971	0.01762	1	320:

48% ####7	19/40 [00:03<00:03,	5.58it/s]				
483/499	0.206G	0.01886	0.007922	0.01746	2	320:
48% ####7	19/40 [00:03<00:03,	5.58it/s]				
483/499	0.206G	0.01886	0.007922	0.01746	2	320:
50% #####	20/40 [00:03<00:03,	5.64it/s]				
483/499	0.206G	0.01844	0.007682	0.01719	1	320:
50% #####	20/40 [00:03<00:03,	5.64it/s]				
483/499	0.206G	0.01844	0.007682	0.01719	1	320:
52% #####2	21/40 [00:03<00:03,	5.85it/s]				
483/499	0.206G	0.01854	0.008032	0.01755	4	320:
52% #####2	21/40 [00:03<00:03,	5.85it/s]				
483/499	0.206G	0.01854	0.008032	0.01755	4	320:
55% #####5	22/40 [00:03<00:03,	5.68it/s]				
483/499	0.206G	0.01859	0.007995	0.01747	2	320:
55% #####5	22/40 [00:04<00:03,	5.68it/s]				
483/499	0.206G	0.01859	0.007995	0.01747	2	320:
57% #####7	23/40 [00:04<00:03,	5.55it/s]				
483/499	0.206G	0.01884	0.008001	0.01741	1	320:
57% #####7	23/40 [00:04<00:03,	5.55it/s]				
483/499	0.206G	0.01884	0.008001	0.01741	1	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
483/499	0.206G	0.01858	0.00791	0.01727	2	320:
60% #####	24/40 [00:04<00:02,	5.63it/s]				
483/499	0.206G	0.01858	0.00791	0.01727	2	320:
62% #####2	25/40 [00:04<00:02,	5.69it/s]				
483/499	0.206G	0.01869	0.008021	0.0174	4	320:
62% #####2	25/40 [00:04<00:02,	5.69it/s]				
483/499	0.206G	0.01869	0.008021	0.0174	4	320:
65% #####5	26/40 [00:04<00:02,	5.71it/s]				
483/499	0.206G	0.01993	0.008034	0.01791	4	320:
65% #####5	26/40 [00:04<00:02,	5.71it/s]				
483/499	0.206G	0.01993	0.008034	0.01791	4	320:
68% #####7	27/40 [00:04<00:02,	5.45it/s]				
483/499	0.206G	0.01969	0.007843	0.01773	1	320:
68% #####7	27/40 [00:05<00:02,	5.45it/s]				
483/499	0.206G	0.01969	0.007843	0.01773	1	320:
70% #####	28/40 [00:05<00:02,	5.55it/s]				
483/499	0.206G	0.01965	0.008057	0.01795	4	320:
70% #####	28/40 [00:05<00:02,	5.55it/s]				
483/499	0.206G	0.01965	0.008057	0.01795	4	320:
72% #####2	29/40 [00:05<00:01,	5.61it/s]				
483/499	0.206G	0.01953	0.008116	0.01799	2	320:
72% #####2	29/40 [00:05<00:01,	5.61it/s]				
483/499	0.206G	0.01953	0.008116	0.01799	2	320:
75% #####5	30/40 [00:05<00:01,	5.52it/s]				
483/499	0.206G	0.01934	0.008052	0.01784	1	320:
75% #####5	30/40 [00:05<00:01,	5.52it/s]				
483/499	0.206G	0.01934	0.008052	0.01784	1	320:

78% #####7		31/40	[00:05<00:01,	5.47it/s]			
483/499		0.206G	0.01909	0.007902	0.0177	1	320:
78% #####7		31/40	[00:05<00:01,	5.47it/s]			
483/499		0.206G	0.01909	0.007902	0.0177	1	320:
80% #####		32/40	[00:05<00:01,	5.41it/s]			
483/499		0.206G	0.0188	0.007733	0.01755	1	320:
80% #####		32/40	[00:05<00:01,	5.41it/s]			
483/499		0.206G	0.0188	0.007733	0.01755	1	320:
82% #####2		33/40	[00:05<00:01,	5.39it/s]			
483/499		0.206G	0.01845	0.007591	0.01739	1	320:
82% #####2		33/40	[00:06<00:01,	5.39it/s]			
483/499		0.206G	0.01845	0.007591	0.01739	1	320:
85% #####5		34/40	[00:06<00:01,	5.24it/s]			
483/499		0.206G	0.01847	0.00773	0.01756	4	320:
85% #####5		34/40	[00:06<00:01,	5.24it/s]			
483/499		0.206G	0.01847	0.00773	0.01756	4	320:
88% #####7		35/40	[00:06<00:00,	5.00it/s]			
483/499		0.206G	0.01827	0.007657	0.01743	1	320:
88% #####7		35/40	[00:06<00:00,	5.00it/s]			
483/499		0.206G	0.01827	0.007657	0.01743	1	320:
90% #####		36/40	[00:06<00:00,	4.87it/s]			
483/499		0.206G	0.01813	0.007524	0.01723	1	320:
90% #####		36/40	[00:06<00:00,	4.87it/s]			
483/499		0.206G	0.01813	0.007524	0.01723	1	320:
92% #####2		37/40	[00:06<00:00,	4.98it/s]			
483/499		0.206G	0.01808	0.007585	0.0172	2	320:
92% #####2		37/40	[00:06<00:00,	4.98it/s]			
483/499		0.206G	0.01808	0.007585	0.0172	2	320:
95% #####5		38/40	[00:06<00:00,	5.08it/s]			
483/499		0.206G	0.01851	0.00763	0.01717	1	320:
95% #####5		38/40	[00:07<00:00,	5.08it/s]			
483/499		0.206G	0.01851	0.00763	0.01717	1	320:
98% #####7		39/40	[00:07<00:00,	5.03it/s]			
483/499		0.206G	0.01835	0.007551	0.01707	1	320:
98% #####7		39/40	[00:07<00:00,	5.03it/s]			
483/499		0.206G	0.01835	0.007551	0.01707	1	320:
100% #####		40/40	[00:07<00:00,	4.86it/s]			
483/499		0.206G	0.01835	0.007551	0.01707	1	320:
100% #####		40/40	[00:07<00:00,	5.41it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 12.74it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 12.80it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:01, 13.38it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00, 14.30it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00, 14.27it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00, 15.42it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00, 14.98it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00, 14.73it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00, 15.68it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00, 16.40it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00, 15.04it/s]			
	all	40	40	0.98	0.975	0.992

0.789

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
484/499	0.206G	0.02612	0.01519	0.02085	4	320:
0%	0/40	[00:00<?, ?it/s]				
484/499	0.206G	0.02612	0.01519	0.02085	4	320:
2% 2	1/40	[00:00<00:06, 5.81it/s]				
484/499	0.206G	0.03566	0.01535	0.0229	1	320:
2% 2	1/40	[00:00<00:06, 5.81it/s]				
484/499	0.206G	0.03566	0.01535	0.0229	1	320:
5% 5	2/40	[00:00<00:07, 5.24it/s]				
484/499	0.206G	0.02841	0.01364	0.02158	1	320:
5% 5	2/40	[00:00<00:07, 5.24it/s]				
484/499	0.206G	0.02841	0.01364	0.02158	1	320:
8% 7	3/40	[00:00<00:06, 5.49it/s]				
484/499	0.206G	0.02346	0.0121	0.01909	2	320:
8% 7	3/40	[00:00<00:06, 5.49it/s]				
484/499	0.206G	0.02346	0.0121	0.01909	2	320:
10% #	4/40	[00:00<00:06, 5.43it/s]				
484/499	0.206G	0.02248	0.01258	0.01843	4	320:
10% #	4/40	[00:00<00:06, 5.43it/s]				
484/499	0.206G	0.02248	0.01258	0.01843	4	320:
12% #2	5/40	[00:00<00:06, 5.37it/s]				
484/499	0.206G	0.02656	0.01165	0.0231	2	320:
12% #2	5/40	[00:01<00:06, 5.37it/s]				
484/499	0.206G	0.02656	0.01165	0.0231	2	320:
15% #5	6/40	[00:01<00:06, 5.36it/s]				
484/499	0.206G	0.02391	0.01043	0.02158	1	320:
15% #5	6/40	[00:01<00:06, 5.36it/s]				

484/499	0.206G	0.02391	0.01043	0.02158	1	320:
18% #7	7/40 [00:01<00:05,	5.50it/s]				
484/499	0.206G	0.02311	0.01029	0.02058	2	320:
18% #7	7/40 [00:01<00:05,	5.50it/s]				
484/499	0.206G	0.02311	0.01029	0.02058	2	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
484/499	0.206G	0.02249	0.01096	0.02025	4	320:
20% ##	8/40 [00:01<00:05,	5.43it/s]				
484/499	0.206G	0.02249	0.01096	0.02025	4	320:
22% ##2	9/40 [00:01<00:05,	5.54it/s]				
484/499	0.206G	0.02164	0.01064	0.01967	2	320:
22% ##2	9/40 [00:01<00:05,	5.54it/s]				
484/499	0.206G	0.02164	0.01064	0.01967	2	320:
25% ##5	10/40 [00:01<00:05,	5.62it/s]				
484/499	0.206G	0.02248	0.01107	0.02017	4	320:
25% ##5	10/40 [00:02<00:05,	5.62it/s]				
484/499	0.206G	0.02248	0.01107	0.02017	4	320:
28% ##7	11/40 [00:02<00:05,	5.53it/s]				
484/499	0.206G	0.02213	0.01056	0.02036	1	320:
28% ##7	11/40 [00:02<00:05,	5.53it/s]				
484/499	0.206G	0.02213	0.01056	0.02036	1	320:
30% ###	12/40 [00:02<00:04,	5.61it/s]				
484/499	0.206G	0.02204	0.01071	0.02047	4	320:
30% ###	12/40 [00:02<00:04,	5.61it/s]				
484/499	0.206G	0.02204	0.01071	0.02047	4	320:
32% ###2	13/40 [00:02<00:05,	5.38it/s]				
484/499	0.206G	0.02161	0.01077	0.02014	2	320:
32% ###2	13/40 [00:02<00:05,	5.38it/s]				
484/499	0.206G	0.02161	0.01077	0.02014	2	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
484/499	0.206G	0.02277	0.01058	0.02059	2	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
484/499	0.206G	0.02277	0.01058	0.02059	2	320:
38% ###7	15/40 [00:02<00:04,	5.44it/s]				
484/499	0.206G	0.02188	0.01032	0.02048	2	320:
38% ###7	15/40 [00:02<00:04,	5.44it/s]				
484/499	0.206G	0.02188	0.01032	0.02048	2	320:
40% ####	16/40 [00:02<00:04,	5.41it/s]				
484/499	0.206G	0.022	0.01023	0.02027	2	320:
40% ####	16/40 [00:03<00:04,	5.41it/s]				
484/499	0.206G	0.022	0.01023	0.02027	2	320:
42% ####2	17/40 [00:03<00:04,	5.37it/s]				
484/499	0.206G	0.02176	0.009818	0.01975	1	320:
42% ####2	17/40 [00:03<00:04,	5.37it/s]				
484/499	0.206G	0.02176	0.009818	0.01975	1	320:
45% ####5	18/40 [00:03<00:04,	5.45it/s]				
484/499	0.206G	0.02136	0.009571	0.01977	2	320:
45% ####5	18/40 [00:03<00:04,	5.45it/s]				

484/499	0.206G	0.02136	0.009571	0.01977	2	320:
48% #####7	19/40 [00:03<00:03,	5.60it/s]				
484/499	0.206G	0.0213	0.009972	0.01977	4	320:
48% #####7	19/40 [00:03<00:03,	5.60it/s]				
484/499	0.206G	0.0213	0.009972	0.01977	4	320:
50% #####	20/40 [00:03<00:03,	5.37it/s]				
484/499	0.206G	0.02065	0.009612	0.01931	1	320:
50% #####	20/40 [00:03<00:03,	5.37it/s]				
484/499	0.206G	0.02065	0.009612	0.01931	1	320:
52% #####2	21/40 [00:03<00:03,	5.64it/s]				
484/499	0.206G	0.02031	0.009638	0.01925	2	320:
52% #####2	21/40 [00:03<00:03,	5.64it/s]				
484/499	0.206G	0.02031	0.009638	0.01925	2	320:
55% #####5	22/40 [00:03<00:03,	5.67it/s]				
484/499	0.206G	0.01967	0.009355	0.01896	1	320:
55% #####5	22/40 [00:04<00:03,	5.67it/s]				
484/499	0.206G	0.01967	0.009355	0.01896	1	320:
57% #####7	23/40 [00:04<00:03,	5.58it/s]				
484/499	0.206G	0.01964	0.009239	0.0187	1	320:
57% #####7	23/40 [00:04<00:03,	5.58it/s]				
484/499	0.206G	0.01964	0.009239	0.0187	1	320:
60% #####	24/40 [00:04<00:02,	5.65it/s]				
484/499	0.206G	0.01947	0.009047	0.01849	1	320:
60% #####	24/40 [00:04<00:02,	5.65it/s]				
484/499	0.206G	0.01947	0.009047	0.01849	1	320:
62% #####2	25/40 [00:04<00:02,	5.67it/s]				
484/499	0.206G	0.01914	0.008885	0.01831	2	320:
62% #####2	25/40 [00:04<00:02,	5.67it/s]				
484/499	0.206G	0.01914	0.008885	0.01831	2	320:
65% #####5	26/40 [00:04<00:02,	5.57it/s]				
484/499	0.206G	0.0188	0.008663	0.01814	1	320:
65% #####5	26/40 [00:04<00:02,	5.57it/s]				
484/499	0.206G	0.0188	0.008663	0.01814	1	320:
68% #####7	27/40 [00:04<00:02,	5.79it/s]				
484/499	0.206G	0.01927	0.008889	0.01831	4	320:
68% #####7	27/40 [00:05<00:02,	5.79it/s]				
484/499	0.206G	0.01927	0.008889	0.01831	4	320:
70% #####	28/40 [00:05<00:02,	5.63it/s]				
484/499	0.206G	0.01889	0.008742	0.01816	1	320:
70% #####	28/40 [00:05<00:02,	5.63it/s]				
484/499	0.206G	0.01889	0.008742	0.01816	1	320:
72% #####2	29/40 [00:05<00:01,	5.68it/s]				
484/499	0.206G	0.01849	0.008534	0.01799	1	320:
72% #####2	29/40 [00:05<00:01,	5.68it/s]				
484/499	0.206G	0.01849	0.008534	0.01799	1	320:
75% #####5	30/40 [00:05<00:01,	5.72it/s]				
484/499	0.206G	0.01863	0.008634	0.01812	3	320:
75% #####5	30/40 [00:05<00:01,	5.72it/s]				

484/499	0.206G	0.01863	0.008634	0.01812	3	320:
78% #####7	31/40 [00:05<00:01,	5.75it/s]				
484/499	0.206G	0.01837	0.008497	0.01806	1	320:
78% #####7	31/40 [00:05<00:01,	5.75it/s]				
484/499	0.206G	0.01837	0.008497	0.01806	1	320:
80% #####	32/40 [00:05<00:01,	5.74it/s]				
484/499	0.206G	0.01888	0.008631	0.01805	4	320:
80% #####	32/40 [00:05<00:01,	5.74it/s]				
484/499	0.206G	0.01888	0.008631	0.01805	4	320:
82% #####2	33/40 [00:05<00:01,	5.61it/s]				
484/499	0.206G	0.01907	0.008689	0.01811	2	320:
82% #####2	33/40 [00:06<00:01,	5.61it/s]				
484/499	0.206G	0.01907	0.008689	0.01811	2	320:
85% #####5	34/40 [00:06<00:01,	5.67it/s]				
484/499	0.206G	0.01929	0.008656	0.0181	2	320:
85% #####5	34/40 [00:06<00:01,	5.67it/s]				
484/499	0.206G	0.01929	0.008656	0.0181	2	320:
88% #####7	35/40 [00:06<00:00,	5.55it/s]				
484/499	0.206G	0.01901	0.008581	0.01798	2	320:
88% #####7	35/40 [00:06<00:00,	5.55it/s]				
484/499	0.206G	0.01901	0.008581	0.01798	2	320:
90% #####	36/40 [00:06<00:00,	5.35it/s]				
484/499	0.206G	0.01975	0.008557	0.01806	3	320:
90% #####	36/40 [00:06<00:00,	5.35it/s]				
484/499	0.206G	0.01975	0.008557	0.01806	3	320:
92% #####2	37/40 [00:06<00:00,	5.21it/s]				
484/499	0.206G	0.01998	0.008758	0.01814	4	320:
92% #####2	37/40 [00:06<00:00,	5.21it/s]				
484/499	0.206G	0.01998	0.008758	0.01814	4	320:
95% #####5	38/40 [00:06<00:00,	5.12it/s]				
484/499	0.206G	0.02061	0.008661	0.01816	2	320:
95% #####5	38/40 [00:07<00:00,	5.12it/s]				
484/499	0.206G	0.02061	0.008661	0.01816	2	320:
98% #####7	39/40 [00:07<00:00,	5.31it/s]				
484/499	0.206G	0.02034	0.0086	0.01813	2	320:
98% #####7	39/40 [00:07<00:00,	5.31it/s]				
484/499	0.206G	0.02034	0.0086	0.01813	2	320:
100% #####	40/40 [00:07<00:00,	5.43it/s]				
484/499	0.206G	0.02034	0.0086	0.01813	2	320:
100% #####	40/40 [00:07<00:00,	5.51it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:00, 18.28it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20 [00:00<00:00, 16.87it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	30% ###		6/20	[00:00<00:00, 16.46it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	40% ####		8/20	[00:00<00:00, 16.53it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	55% #####5		11/20	[00:00<00:00, 18.12it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	65% #####5		13/20	[00:00<00:00, 17.41it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	75% #####5		15/20	[00:00<00:00, 17.67it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	90% #####		18/20	[00:01<00:00, 16.83it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	100% #####		20/20	[00:01<00:00, 17.20it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	100% #####		20/20	[00:01<00:00, 17.22it/s]			
	all		40	40	0.983	0.992	0.995
0.807							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
485/499	0.206G	0.01616	0.006929	0.0229	2	320:
0%		0/40	[00:00<?, ?it/s]			
485/499	0.206G	0.01616	0.006929	0.0229	2	320:
2% 2		1/40	[00:00<00:06, 5.79it/s]			
485/499	0.206G	0.03019	0.00937	0.02123	4	320:
2% 2		1/40	[00:00<00:06, 5.79it/s]			
485/499	0.206G	0.03019	0.00937	0.02123	4	320:
5% 5		2/40	[00:00<00:07, 5.25it/s]			
485/499	0.206G	0.03304	0.008665	0.02156	2	320:
5% 5		2/40	[00:00<00:07, 5.25it/s]			
485/499	0.206G	0.03304	0.008665	0.02156	2	320:
8% 7		3/40	[00:00<00:07, 5.17it/s]			
485/499	0.206G	0.03671	0.007852	0.01996	2	320:
8% 7		3/40	[00:00<00:07, 5.17it/s]			
485/499	0.206G	0.03671	0.007852	0.01996	2	320:
10% #		4/40	[00:00<00:06, 5.16it/s]			
485/499	0.206G	0.03233	0.007591	0.02043	2	320:
10% #		4/40	[00:00<00:06, 5.16it/s]			
485/499	0.206G	0.03233	0.007591	0.02043	2	320:
12% #2		5/40	[00:00<00:06, 5.55it/s]			
485/499	0.206G	0.031	0.008897	0.01997	4	320:
12% #2		5/40	[00:01<00:06, 5.55it/s]			
485/499	0.206G	0.031	0.008897	0.01997	4	320:
15% #5		6/40	[00:01<00:06, 5.28it/s]			
485/499	0.206G	0.02947	0.01015	0.0196	4	320:
15% #5		6/40	[00:01<00:06, 5.28it/s]			
485/499	0.206G	0.02947	0.01015	0.0196	4	320:

18% #7	7/40 [00:01<00:06,	5.30it/s]				
485/499	0.206G	0.02655	0.009267	0.01937	1	320:
18% #7	7/40 [00:01<00:06,	5.30it/s]				
485/499	0.206G	0.02655	0.009267	0.01937	1	320:
20% ##	8/40 [00:01<00:06,	5.31it/s]				
485/499	0.206G	0.02645	0.009653	0.02077	4	320:
20% ##	8/40 [00:01<00:06,	5.31it/s]				
485/499	0.206G	0.02645	0.009653	0.02077	4	320:
22% ##2	9/40 [00:01<00:05,	5.45it/s]				
485/499	0.206G	0.02488	0.009328	0.02095	2	320:
22% ##2	9/40 [00:01<00:05,	5.45it/s]				
485/499	0.206G	0.02488	0.009328	0.02095	2	320:
25% ##5	10/40 [00:01<00:05,	5.56it/s]				
485/499	0.206G	0.02685	0.009266	0.0209	2	320:
25% ##5	10/40 [00:02<00:05,	5.56it/s]				
485/499	0.206G	0.02685	0.009266	0.0209	2	320:
28% ##7	11/40 [00:02<00:05,	5.49it/s]				
485/499	0.206G	0.02845	0.00897	0.02209	2	320:
28% ##7	11/40 [00:02<00:05,	5.49it/s]				
485/499	0.206G	0.02845	0.00897	0.02209	2	320:
30% ###	12/40 [00:02<00:05,	5.56it/s]				
485/499	0.206G	0.02721	0.008504	0.02129	1	320:
30% ###	12/40 [00:02<00:05,	5.56it/s]				
485/499	0.206G	0.02721	0.008504	0.02129	1	320:
32% ###2	13/40 [00:02<00:04,	5.49it/s]				
485/499	0.206G	0.027	0.008753	0.02088	4	320:
32% ###2	13/40 [00:02<00:04,	5.49it/s]				
485/499	0.206G	0.027	0.008753	0.02088	4	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
485/499	0.206G	0.026	0.008761	0.02031	2	320:
35% ###5	14/40 [00:02<00:04,	5.59it/s]				
485/499	0.206G	0.026	0.008761	0.02031	2	320:
38% ###7	15/40 [00:02<00:04,	5.64it/s]				
485/499	0.206G	0.02496	0.00862	0.02003	2	320:
38% ###7	15/40 [00:02<00:04,	5.64it/s]				
485/499	0.206G	0.02496	0.00862	0.02003	2	320:
40% ####	16/40 [00:02<00:04,	5.69it/s]				
485/499	0.206G	0.0251	0.008786	0.01973	4	320:
40% ####	16/40 [00:03<00:04,	5.69it/s]				
485/499	0.206G	0.0251	0.008786	0.01973	4	320:
42% ####2	17/40 [00:03<00:04,	5.43it/s]				
485/499	0.206G	0.02442	0.008679	0.0194	2	320:
42% ####2	17/40 [00:03<00:04,	5.43it/s]				
485/499	0.206G	0.02442	0.008679	0.0194	2	320:
45% ####5	18/40 [00:03<00:03,	5.54it/s]				
485/499	0.206G	0.02367	0.008663	0.01917	4	320:
45% ####5	18/40 [00:03<00:03,	5.54it/s]				
485/499	0.206G	0.02367	0.008663	0.01917	4	320:

48% ####7	19/40 [00:03<00:03, 5.48it/s]					
485/499	0.206G 0.02349 0.008791 0.01919	4	320:			
48% ####7	19/40 [00:03<00:03, 5.48it/s]					
485/499	0.206G 0.02349 0.008791 0.01919	4	320:			
50% #####	20/40 [00:03<00:03, 5.30it/s]					
485/499	0.206G 0.02266 0.008494 0.01881	1	320:			
50% #####	20/40 [00:03<00:03, 5.30it/s]					
485/499	0.206G 0.02266 0.008494 0.01881	1	320:			
52% #####2	21/40 [00:03<00:03, 5.03it/s]					
485/499	0.206G 0.02245 0.008426 0.01868	2	320:			
52% #####2	21/40 [00:04<00:03, 5.03it/s]					
485/499	0.206G 0.02245 0.008426 0.01868	2	320:			
55% #####5	22/40 [00:04<00:03, 5.12it/s]					
485/499	0.206G 0.02282 0.008669 0.01871	4	320:			
55% #####5	22/40 [00:04<00:03, 5.12it/s]					
485/499	0.206G 0.02282 0.008669 0.01871	4	320:			
57% #####7	23/40 [00:04<00:03, 5.05it/s]					
485/499	0.206G 0.02383 0.008672 0.01855	2	320:			
57% #####7	23/40 [00:04<00:03, 5.05it/s]					
485/499	0.206G 0.02383 0.008672 0.01855	2	320:			
60% #####	24/40 [00:04<00:03, 4.90it/s]					
485/499	0.206G 0.02427 0.008593 0.0185	2	320:			
60% #####	24/40 [00:04<00:03, 4.90it/s]					
485/499	0.206G 0.02427 0.008593 0.0185	2	320:			
62% #####2	25/40 [00:04<00:03, 4.90it/s]					
485/499	0.206G 0.02441 0.008744 0.01843	4	320:			
62% #####2	25/40 [00:04<00:03, 4.90it/s]					
485/499	0.206G 0.02441 0.008744 0.01843	4	320:			
65% #####5	26/40 [00:04<00:02, 4.89it/s]					
485/499	0.206G 0.025 0.008761 0.01837	2	320:			
65% #####5	26/40 [00:05<00:02, 4.89it/s]					
485/499	0.206G 0.025 0.008761 0.01837	2	320:			
68% #####7	27/40 [00:05<00:02, 4.69it/s]					
485/499	0.206G 0.02486 0.00901 0.01848	4	320:			
68% #####7	27/40 [00:05<00:02, 4.69it/s]					
485/499	0.206G 0.02486 0.00901 0.01848	4	320:			
70% #####	28/40 [00:05<00:02, 4.75it/s]					
485/499	0.206G 0.02425 0.008832 0.0182	1	320:			
70% #####	28/40 [00:05<00:02, 4.75it/s]					
485/499	0.206G 0.02425 0.008832 0.0182	1	320:			
72% #####2	29/40 [00:05<00:02, 4.79it/s]					
485/499	0.206G 0.02363 0.008607 0.01819	1	320:			
72% #####2	29/40 [00:05<00:02, 4.79it/s]					
485/499	0.206G 0.02363 0.008607 0.01819	1	320:			
75% #####5	30/40 [00:05<00:02, 4.83it/s]					
485/499	0.206G 0.02359 0.008763 0.01817	4	320:			
75% #####5	30/40 [00:05<00:02, 4.83it/s]					
485/499	0.206G 0.02359 0.008763 0.01817	4	320:			

78% #####7		31/40	[00:05<00:01,	4.97it/s]			
485/499		0.206G	0.02336	0.008606	0.01803	1	320:
78% #####7		31/40	[00:06<00:01,	4.97it/s]			
485/499		0.206G	0.02336	0.008606	0.01803	1	320:
80% #####		32/40	[00:06<00:01,	4.95it/s]			
485/499		0.206G	0.02349	0.008677	0.01837	4	320:
80% #####		32/40	[00:06<00:01,	4.95it/s]			
485/499		0.206G	0.02349	0.008677	0.01837	4	320:
82% #####2		33/40	[00:06<00:01,	4.93it/s]			
485/499		0.206G	0.02339	0.008842	0.01839	4	320:
82% #####2		33/40	[00:06<00:01,	4.93it/s]			
485/499		0.206G	0.02339	0.008842	0.01839	4	320:
85% #####5		34/40	[00:06<00:01,	4.91it/s]			
485/499		0.206G	0.02331	0.008971	0.01837	4	320:
85% #####5		34/40	[00:06<00:01,	4.91it/s]			
485/499		0.206G	0.02331	0.008971	0.01837	4	320:
88% #####7		35/40	[00:06<00:00,	5.03it/s]			
485/499		0.206G	0.02286	0.008834	0.01843	2	320:
88% #####7		35/40	[00:06<00:00,	5.03it/s]			
485/499		0.206G	0.02286	0.008834	0.01843	2	320:
90% #####		36/40	[00:06<00:00,	5.11it/s]			
485/499		0.206G	0.02268	0.008933	0.01845	4	320:
90% #####		36/40	[00:07<00:00,	5.11it/s]			
485/499		0.206G	0.02268	0.008933	0.01845	4	320:
92% #####2		37/40	[00:07<00:00,	5.18it/s]			
485/499		0.206G	0.02249	0.00887	0.01833	2	320:
92% #####2		37/40	[00:07<00:00,	5.18it/s]			
485/499		0.206G	0.02249	0.00887	0.01833	2	320:
95% #####5		38/40	[00:07<00:00,	5.10it/s]			
485/499		0.206G	0.02248	0.008868	0.01831	2	320:
95% #####5		38/40	[00:07<00:00,	5.10it/s]			
485/499		0.206G	0.02248	0.008868	0.01831	2	320:
98% #####7		39/40	[00:07<00:00,	5.28it/s]			
485/499		0.206G	0.02245	0.009009	0.0184	4	320:
98% #####7		39/40	[00:07<00:00,	5.28it/s]			
485/499		0.206G	0.02245	0.009009	0.0184	4	320:
100% #####		40/40	[00:07<00:00,	5.29it/s]			
485/499		0.206G	0.02245	0.009009	0.0184	4	320:
100% #####		40/40	[00:07<00:00,	5.20it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:00, 18.29it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 16.85it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 17.27it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	17.65it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	17.87it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.43it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	15.66it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	16.41it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	15.66it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	15.76it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.37it/s]		
	all	40	40	0.983	0.992	0.995

0.807

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
486/499	0.206G	0.007277	0.002907	0.01443	1	320:
0%	0/40	[00:00<?,	?it/s]			
486/499	0.206G	0.007277	0.002907	0.01443	1	320:
2% 2	1/40	[00:00<00:06,	5.82it/s]			
486/499	0.206G	0.007909	0.004293	0.01307	2	320:
2% 2	1/40	[00:00<00:06,	5.82it/s]			
486/499	0.206G	0.007909	0.004293	0.01307	2	320:
5% 5	2/40	[00:00<00:06,	6.12it/s]			
486/499	0.206G	0.008579	0.004707	0.01289	2	320:
5% 5	2/40	[00:00<00:06,	6.12it/s]			
486/499	0.206G	0.008579	0.004707	0.01289	2	320:
8% 7	3/40	[00:00<00:06,	5.73it/s]			
486/499	0.206G	0.01179	0.007297	0.01603	3	320:
8% 7	3/40	[00:00<00:06,	5.73it/s]			
486/499	0.206G	0.01179	0.007297	0.01603	3	320:
10% #	4/40	[00:00<00:06,	5.77it/s]			
486/499	0.206G	0.01125	0.00708	0.01635	1	320:
10% #	4/40	[00:00<00:06,	5.77it/s]			
486/499	0.206G	0.01125	0.00708	0.01635	1	320:
12% #2	5/40	[00:00<00:05,	5.95it/s]			
486/499	0.206G	0.01719	0.006918	0.01646	2	320:
12% #2	5/40	[00:01<00:05,	5.95it/s]			
486/499	0.206G	0.01719	0.006918	0.01646	2	320:
15% #5	6/40	[00:01<00:06,	5.39it/s]			
486/499	0.206G	0.0168	0.007877	0.01786	4	320:
15% #5	6/40	[00:01<00:06,	5.39it/s]			

486/499	0.206G	0.0168	0.007877	0.01786	4	320:
18% #7	7/40 [00:01<00:06,	5.21it/s]				
486/499	0.206G	0.01628	0.007689	0.01731	1	320:
18% #7	7/40 [00:01<00:06,	5.21it/s]				
486/499	0.206G	0.01628	0.007689	0.01731	1	320:
20% ##	8/40 [00:01<00:06,	5.25it/s]				
486/499	0.206G	0.01605	0.007248	0.01784	1	320:
20% ##	8/40 [00:01<00:06,	5.25it/s]				
486/499	0.206G	0.01605	0.007248	0.01784	1	320:
22% ##2	9/40 [00:01<00:05,	5.42it/s]				
486/499	0.206G	0.0194	0.007292	0.01761	2	320:
22% ##2	9/40 [00:01<00:05,	5.42it/s]				
486/499	0.206G	0.0194	0.007292	0.01761	2	320:
25% ##5	10/40 [00:01<00:05,	5.41it/s]				
486/499	0.206G	0.01875	0.006931	0.01711	1	320:
25% ##5	10/40 [00:01<00:05,	5.41it/s]				
486/499	0.206G	0.01875	0.006931	0.01711	1	320:
28% ##7	11/40 [00:01<00:05,	5.50it/s]				
486/499	0.206G	0.01924	0.007499	0.01743	4	320:
28% ##7	11/40 [00:02<00:05,	5.50it/s]				
486/499	0.206G	0.01924	0.007499	0.01743	4	320:
30% ###	12/40 [00:02<00:05,	5.60it/s]				
486/499	0.206G	0.02107	0.007489	0.01737	2	320:
30% ###	12/40 [00:02<00:05,	5.60it/s]				
486/499	0.206G	0.02107	0.007489	0.01737	2	320:
32% ###2	13/40 [00:02<00:04,	5.47it/s]				
486/499	0.206G	0.02274	0.007384	0.01709	2	320:
32% ###2	13/40 [00:02<00:04,	5.47it/s]				
486/499	0.206G	0.02274	0.007384	0.01709	2	320:
35% ###5	14/40 [00:02<00:04,	5.44it/s]				
486/499	0.206G	0.02225	0.007337	0.01674	2	320:
35% ###5	14/40 [00:02<00:04,	5.44it/s]				
486/499	0.206G	0.02225	0.007337	0.01674	2	320:
38% ###7	15/40 [00:02<00:04,	5.41it/s]				
486/499	0.206G	0.02133	0.007057	0.01667	1	320:
38% ###7	15/40 [00:02<00:04,	5.41it/s]				
486/499	0.206G	0.02133	0.007057	0.01667	1	320:
40% ####	16/40 [00:02<00:04,	5.51it/s]				
486/499	0.206G	0.02163	0.007488	0.01817	4	320:
40% ####	16/40 [00:03<00:04,	5.51it/s]				
486/499	0.206G	0.02163	0.007488	0.01817	4	320:
42% ####2	17/40 [00:03<00:04,	5.46it/s]				
486/499	0.206G	0.02081	0.007216	0.01776	1	320:
42% ####2	17/40 [00:03<00:04,	5.46it/s]				
486/499	0.206G	0.02081	0.007216	0.01776	1	320:
45% ####5	18/40 [00:03<00:03,	5.56it/s]				
486/499	0.206G	0.02043	0.007398	0.01795	4	320:
45% ####5	18/40 [00:03<00:03,	5.56it/s]				

486/499	0.206G	0.02043	0.007398	0.01795	4	320:
48% #####7	19/40 [00:03<00:03,	5.34it/s]				
486/499	0.206G	0.01983	0.007571	0.01776	4	320:
48% #####7	19/40 [00:03<00:03,	5.34it/s]				
486/499	0.206G	0.01983	0.007571	0.01776	4	320:
50% #####	20/40 [00:03<00:03,	5.20it/s]				
486/499	0.206G	0.01954	0.007641	0.01767	1	320:
50% #####	20/40 [00:03<00:03,	5.20it/s]				
486/499	0.206G	0.01954	0.007641	0.01767	1	320:
52% #####2	21/40 [00:03<00:03,	5.37it/s]				
486/499	0.206G	0.01991	0.007643	0.01762	3	320:
52% #####2	21/40 [00:04<00:03,	5.37it/s]				
486/499	0.206G	0.01991	0.007643	0.01762	3	320:
55% #####5	22/40 [00:04<00:03,	5.35it/s]				
486/499	0.206G	0.0196	0.007458	0.01744	1	320:
55% #####5	22/40 [00:04<00:03,	5.35it/s]				
486/499	0.206G	0.0196	0.007458	0.01744	1	320:
57% #####7	23/40 [00:04<00:03,	5.48it/s]				
486/499	0.206G	0.02081	0.007439	0.01749	2	320:
57% #####7	23/40 [00:04<00:03,	5.48it/s]				
486/499	0.206G	0.02081	0.007439	0.01749	2	320:
60% #####	24/40 [00:04<00:02,	5.58it/s]				
486/499	0.206G	0.02049	0.007289	0.01761	1	320:
60% #####	24/40 [00:04<00:02,	5.58it/s]				
486/499	0.206G	0.02049	0.007289	0.01761	1	320:
62% #####2	25/40 [00:04<00:02,	5.50it/s]				
486/499	0.206G	0.02054	0.007331	0.01755	2	320:
62% #####2	25/40 [00:04<00:02,	5.50it/s]				
486/499	0.206G	0.02054	0.007331	0.01755	2	320:
65% #####5	26/40 [00:04<00:02,	5.59it/s]				
486/499	0.206G	0.02032	0.007271	0.0175	2	320:
65% #####5	26/40 [00:04<00:02,	5.59it/s]				
486/499	0.206G	0.02032	0.007271	0.0175	2	320:
68% #####7	27/40 [00:04<00:02,	5.66it/s]				
486/499	0.206G	0.0196	0.007069	0.01687	0	320:
68% #####7	27/40 [00:05<00:02,	5.66it/s]				
486/499	0.206G	0.0196	0.007069	0.01687	0	320:
70% #####	28/40 [00:05<00:02,	5.83it/s]				
486/499	0.206G	0.01938	0.007145	0.01673	2	320:
70% #####	28/40 [00:05<00:02,	5.83it/s]				
486/499	0.206G	0.01938	0.007145	0.01673	2	320:
72% #####2	29/40 [00:05<00:01,	5.83it/s]				
486/499	0.206G	0.01928	0.007207	0.01669	3	320:
72% #####2	29/40 [00:05<00:01,	5.83it/s]				
486/499	0.206G	0.01928	0.007207	0.01669	3	320:
75% #####5	30/40 [00:05<00:01,	5.82it/s]				
486/499	0.206G	0.01903	0.007098	0.01653	1	320:
75% #####5	30/40 [00:05<00:01,	5.82it/s]				

486/499	0.206G	0.01903	0.007098	0.01653	1	320:
78% #####7	31/40 [00:05<00:01,	5.64it/s]				
486/499	0.206G	0.01862	0.007025	0.01652	1	320:
78% #####7	31/40 [00:05<00:01,	5.64it/s]				
486/499	0.206G	0.01862	0.007025	0.01652	1	320:
80% #####	32/40 [00:05<00:01,	5.69it/s]				
486/499	0.206G	0.01865	0.006917	0.01664	1	320:
80% #####	32/40 [00:05<00:01,	5.69it/s]				
486/499	0.206G	0.01865	0.006917	0.01664	1	320:
82% #####2	33/40 [00:05<00:01,	5.73it/s]				
486/499	0.206G	0.01846	0.00685	0.01652	1	320:
82% #####2	33/40 [00:06<00:01,	5.73it/s]				
486/499	0.206G	0.01846	0.00685	0.01652	1	320:
85% #####5	34/40 [00:06<00:01,	5.74it/s]				
486/499	0.206G	0.01899	0.006953	0.01655	3	320:
85% #####5	34/40 [00:06<00:01,	5.74it/s]				
486/499	0.206G	0.01899	0.006953	0.01655	3	320:
88% #####7	35/40 [00:06<00:00,	5.61it/s]				
486/499	0.206G	0.0186	0.006853	0.01651	1	320:
88% #####7	35/40 [00:06<00:00,	5.61it/s]				
486/499	0.206G	0.0186	0.006853	0.01651	1	320:
90% #####	36/40 [00:06<00:00,	5.67it/s]				
486/499	0.206G	0.01852	0.006946	0.01702	4	320:
90% #####	36/40 [00:06<00:00,	5.67it/s]				
486/499	0.206G	0.01852	0.006946	0.01702	4	320:
92% #####2	37/40 [00:06<00:00,	5.70it/s]				
486/499	0.206G	0.01825	0.006857	0.01684	1	320:
92% #####2	37/40 [00:06<00:00,	5.70it/s]				
486/499	0.206G	0.01825	0.006857	0.01684	1	320:
95% #####5	38/40 [00:06<00:00,	5.58it/s]				
486/499	0.206G	0.01828	0.006872	0.01675	2	320:
95% #####5	38/40 [00:07<00:00,	5.58it/s]				
486/499	0.206G	0.01828	0.006872	0.01675	2	320:
98% #####7	39/40 [00:07<00:00,	5.65it/s]				
486/499	0.206G	0.01832	0.006842	0.01696	2	320:
98% #####7	39/40 [00:07<00:00,	5.65it/s]				
486/499	0.206G	0.01832	0.006842	0.01696	2	320:
100% #####	40/40 [00:07<00:00,	5.55it/s]				
486/499	0.206G	0.01832	0.006842	0.01696	2	320:
100% #####	40/40 [00:07<00:00,	5.56it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:01, 15.99it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20 [00:00<00:00, 17.27it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	35% ###5		7/20	[00:00<00:00, 18.29it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	45% ####5		9/20	[00:00<00:00, 18.08it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	55% #####5		11/20	[00:00<00:00, 16.59it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	65% #####5		13/20	[00:00<00:00, 17.09it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	80% #####		16/20	[00:00<00:00, 17.89it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	90% #####		18/20	[00:01<00:00, 17.25it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	100% #####		20/20	[00:01<00:00, 17.56it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	100% #####		20/20	[00:01<00:00, 17.46it/s]			
	all		40	40	0.986	0.992	0.995
0.813							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
487/499	0.206G	0.02313	0.007112	0.01339	2	320:
0%		0/40	[00:00<?, ?it/s]			
487/499	0.206G	0.02313	0.007112	0.01339	2	320:
2% 2		1/40	[00:00<00:06, 5.73it/s]			
487/499	0.206G	0.02067	0.007111	0.01772	2	320:
2% 2		1/40	[00:00<00:06, 5.73it/s]			
487/499	0.206G	0.02067	0.007111	0.01772	2	320:
5% 5		2/40	[00:00<00:06, 6.11it/s]			
487/499	0.206G	0.01625	0.005765	0.01982	1	320:
5% 5		2/40	[00:00<00:06, 6.11it/s]			
487/499	0.206G	0.01625	0.005765	0.01982	1	320:
8% 7		3/40	[00:00<00:06, 5.97it/s]			
487/499	0.206G	0.01609	0.006604	0.01931	2	320:
8% 7		3/40	[00:00<00:06, 5.97it/s]			
487/499	0.206G	0.01609	0.006604	0.01931	2	320:
10% #		4/40	[00:00<00:06, 5.89it/s]			
487/499	0.206G	0.0219	0.006907	0.01883	2	320:
10% #		4/40	[00:00<00:06, 5.89it/s]			
487/499	0.206G	0.0219	0.006907	0.01883	2	320:
12% #2		5/40	[00:00<00:06, 5.50it/s]			
487/499	0.206G	0.02228	0.006727	0.02096	2	320:
12% #2		5/40	[00:01<00:06, 5.50it/s]			
487/499	0.206G	0.02228	0.006727	0.02096	2	320:
15% #5		6/40	[00:01<00:06, 5.44it/s]			
487/499	0.206G	0.02549	0.006877	0.02008	2	320:
15% #5		6/40	[00:01<00:06, 5.44it/s]			
487/499	0.206G	0.02549	0.006877	0.02008	2	320:

18% #7	7/40 [00:01<00:05,	5.56it/s]				
487/499	0.206G	0.02343	0.006463	0.01904	1	320:
18% #7	7/40 [00:01<00:05,	5.56it/s]				
487/499	0.206G	0.02343	0.006463	0.01904	1	320:
20% ##	8/40 [00:01<00:05,	5.49it/s]				
487/499	0.206G	0.02194	0.006263	0.01802	1	320:
20% ##	8/40 [00:01<00:05,	5.49it/s]				
487/499	0.206G	0.02194	0.006263	0.01802	1	320:
22% ##2	9/40 [00:01<00:05,	5.25it/s]				
487/499	0.206G	0.02309	0.006516	0.01762	2	320:
22% ##2	9/40 [00:01<00:05,	5.25it/s]				
487/499	0.206G	0.02309	0.006516	0.01762	2	320:
25% ##5	10/40 [00:01<00:05,	5.17it/s]				
487/499	0.206G	0.02157	0.006497	0.01729	2	320:
25% ##5	10/40 [00:02<00:05,	5.17it/s]				
487/499	0.206G	0.02157	0.006497	0.01729	2	320:
28% ##7	11/40 [00:02<00:05,	5.22it/s]				
487/499	0.206G	0.02266	0.007751	0.01764	4	320:
28% ##7	11/40 [00:02<00:05,	5.22it/s]				
487/499	0.206G	0.02266	0.007751	0.01764	4	320:
30% ###	12/40 [00:02<00:05,	4.97it/s]				
487/499	0.206G	0.02183	0.007406	0.01732	1	320:
30% ###	12/40 [00:02<00:05,	4.97it/s]				
487/499	0.206G	0.02183	0.007406	0.01732	1	320:
32% ###2	13/40 [00:02<00:05,	5.08it/s]				
487/499	0.206G	0.02076	0.007086	0.01736	1	320:
32% ###2	13/40 [00:02<00:05,	5.08it/s]				
487/499	0.206G	0.02076	0.007086	0.01736	1	320:
35% ###5	14/40 [00:02<00:05,	5.15it/s]				
487/499	0.206G	0.01999	0.007241	0.01784	2	320:
35% ###5	14/40 [00:02<00:05,	5.15it/s]				
487/499	0.206G	0.01999	0.007241	0.01784	2	320:
38% ###7	15/40 [00:02<00:04,	5.07it/s]				
487/499	0.206G	0.0201	0.007751	0.01847	4	320:
38% ###7	15/40 [00:03<00:04,	5.07it/s]				
487/499	0.206G	0.0201	0.007751	0.01847	4	320:
40% ####	16/40 [00:03<00:04,	5.03it/s]				
487/499	0.206G	0.01993	0.007781	0.01811	2	320:
40% ####	16/40 [00:03<00:04,	5.03it/s]				
487/499	0.206G	0.01993	0.007781	0.01811	2	320:
42% ####2	17/40 [00:03<00:04,	5.10it/s]				
487/499	0.206G	0.01938	0.007569	0.01782	1	320:
42% ####2	17/40 [00:03<00:04,	5.10it/s]				
487/499	0.206G	0.01938	0.007569	0.01782	1	320:
45% ####5	18/40 [00:03<00:04,	5.17it/s]				
487/499	0.206G	0.01836	0.007452	0.01689	0	320:
45% ####5	18/40 [00:03<00:04,	5.17it/s]				
487/499	0.206G	0.01836	0.007452	0.01689	0	320:

48% #####7	19/40 [00:03<00:03, 5.34it/s]					
487/499	0.206G 0.01796 0.007595 0.01688	2	320:			
48% #####7	19/40 [00:03<00:03, 5.34it/s]					
487/499	0.206G 0.01796 0.007595 0.01688	2	320:			
50% #####	20/40 [00:03<00:03, 5.30it/s]					
487/499	0.206G 0.0177 0.007483 0.01662	1	320:			
50% #####	20/40 [00:03<00:03, 5.30it/s]					
487/499	0.206G 0.0177 0.007483 0.01662	1	320:			
52% #####2	21/40 [00:03<00:03, 5.22it/s]					
487/499	0.206G 0.01835 0.00779 0.01717	4	320:			
52% #####2	21/40 [00:04<00:03, 5.22it/s]					
487/499	0.206G 0.01835 0.00779 0.01717	4	320:			
55% #####5	22/40 [00:04<00:03, 5.13it/s]					
487/499	0.206G 0.0183 0.008133 0.01774	4	320:			
55% #####5	22/40 [00:04<00:03, 5.13it/s]					
487/499	0.206G 0.0183 0.008133 0.01774	4	320:			
57% #####7	23/40 [00:04<00:03, 5.04it/s]					
487/499	0.206G 0.01795 0.008103 0.01764	2	320:			
57% #####7	23/40 [00:04<00:03, 5.04it/s]					
487/499	0.206G 0.01795 0.008103 0.01764	2	320:			
60% #####	24/40 [00:04<00:03, 5.01it/s]					
487/499	0.206G 0.01763 0.007984 0.01761	1	320:			
60% #####	24/40 [00:04<00:03, 5.01it/s]					
487/499	0.206G 0.01763 0.007984 0.01761	1	320:			
62% #####2	25/40 [00:04<00:02, 5.23it/s]					
487/499	0.206G 0.01737 0.007848 0.01757	2	320:			
62% #####2	25/40 [00:04<00:02, 5.23it/s]					
487/499	0.206G 0.01737 0.007848 0.01757	2	320:			
65% #####5	26/40 [00:04<00:02, 5.38it/s]					
487/499	0.206G 0.01712 0.007863 0.01761	2	320:			
65% #####5	26/40 [00:05<00:02, 5.38it/s]					
487/499	0.206G 0.01712 0.007863 0.01761	2	320:			
68% #####7	27/40 [00:05<00:02, 5.50it/s]					
487/499	0.206G 0.01727 0.008062 0.01807	4	320:			
68% #####7	27/40 [00:05<00:02, 5.50it/s]					
487/499	0.206G 0.01727 0.008062 0.01807	4	320:			
70% #####	28/40 [00:05<00:02, 5.27it/s]					
487/499	0.206G 0.01716 0.008012 0.01791	1	320:			
70% #####	28/40 [00:05<00:02, 5.27it/s]					
487/499	0.206G 0.01716 0.008012 0.01791	1	320:			
72% #####2	29/40 [00:05<00:02, 5.45it/s]					
487/499	0.206G 0.01696 0.008115 0.01779	2	320:			
72% #####2	29/40 [00:05<00:02, 5.45it/s]					
487/499	0.206G 0.01696 0.008115 0.01779	2	320:			
75% #####5	30/40 [00:05<00:01, 5.55it/s]					
487/499	0.206G 0.01743 0.008227 0.01796	3	320:			
75% #####5	30/40 [00:05<00:01, 5.55it/s]					
487/499	0.206G 0.01743 0.008227 0.01796	3	320:			

78% #####7		31/40	[00:05<00:01,	5.20it/s]			
487/499		0.206G	0.01743	0.008152	0.01781	1	320:
78% #####7		31/40	[00:06<00:01,	5.20it/s]			
487/499		0.206G	0.01743	0.008152	0.01781	1	320:
80% #####		32/40	[00:06<00:01,	5.51it/s]			
487/499		0.206G	0.01836	0.008095	0.01774	2	320:
80% #####		32/40	[00:06<00:01,	5.51it/s]			
487/499		0.206G	0.01836	0.008095	0.01774	2	320:
82% #####2		33/40	[00:06<00:01,	5.45it/s]			
487/499		0.206G	0.01838	0.008221	0.0177	4	320:
82% #####2		33/40	[00:06<00:01,	5.45it/s]			
487/499		0.206G	0.01838	0.008221	0.0177	4	320:
85% #####5		34/40	[00:06<00:01,	5.39it/s]			
487/499		0.206G	0.01881	0.008404	0.01784	4	320:
85% #####5		34/40	[00:06<00:01,	5.39it/s]			
487/499		0.206G	0.01881	0.008404	0.01784	4	320:
88% #####7		35/40	[00:06<00:00,	5.41it/s]			
487/499		0.206G	0.01931	0.008604	0.01799	4	320:
88% #####7		35/40	[00:06<00:00,	5.41it/s]			
487/499		0.206G	0.01931	0.008604	0.01799	4	320:
90% #####		36/40	[00:06<00:00,	5.52it/s]			
487/499		0.206G	0.01932	0.008474	0.01798	1	320:
90% #####		36/40	[00:06<00:00,	5.52it/s]			
487/499		0.206G	0.01932	0.008474	0.01798	1	320:
92% #####2		37/40	[00:06<00:00,	5.50it/s]			
487/499		0.206G	0.01996	0.008495	0.01794	3	320:
92% #####2		37/40	[00:07<00:00,	5.50it/s]			
487/499		0.206G	0.01996	0.008495	0.01794	3	320:
95% #####5		38/40	[00:07<00:00,	5.53it/s]			
487/499		0.206G	0.02024	0.008657	0.01806	4	320:
95% #####5		38/40	[00:07<00:00,	5.53it/s]			
487/499		0.206G	0.02024	0.008657	0.01806	4	320:
98% #####7		39/40	[00:07<00:00,	5.33it/s]			
487/499		0.206G	0.02047	0.008742	0.01815	4	320:
98% #####7		39/40	[00:07<00:00,	5.33it/s]			
487/499		0.206G	0.02047	0.008742	0.01815	4	320:
100% #####		40/40	[00:07<00:00,	5.18it/s]			
487/499		0.206G	0.02047	0.008742	0.01815	4	320:
100% #####		40/40	[00:07<00:00,	5.31it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 14.21it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:00, 16.31it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 30% ###		6/20	[00:00<00:00, 14.50it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	15.72it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.56it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.36it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	16.93it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	15.61it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	15.37it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.17it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	15.94it/s]		
	all	40	40	0.986	0.992	0.995

0.813

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
488/499	0.206G	0.06756	0.008855	0.01823	3	320:
0%	0/40	[00:00<?,	?it/s]			
488/499	0.206G	0.06756	0.008855	0.01823	3	320:
2% 2	1/40	[00:00<00:07,	5.33it/s]			
488/499	0.206G	0.03876	0.00739	0.01539	2	320:
2% 2	1/40	[00:00<00:07,	5.33it/s]			
488/499	0.206G	0.03876	0.00739	0.01539	2	320:
5% 5	2/40	[00:00<00:07,	5.33it/s]			
488/499	0.206G	0.02924	0.006583	0.01488	1	320:
5% 5	2/40	[00:00<00:07,	5.33it/s]			
488/499	0.206G	0.02924	0.006583	0.01488	1	320:
8% 7	3/40	[00:00<00:06,	5.74it/s]			
488/499	0.206G	0.02604	0.007796	0.01733	4	320:
8% 7	3/40	[00:00<00:06,	5.74it/s]			
488/499	0.206G	0.02604	0.007796	0.01733	4	320:
10% #	4/40	[00:00<00:07,	5.05it/s]			
488/499	0.206G	0.026	0.008683	0.01746	4	320:
10% #	4/40	[00:00<00:07,	5.05it/s]			
488/499	0.206G	0.026	0.008683	0.01746	4	320:
12% #2	5/40	[00:00<00:06,	5.15it/s]			
488/499	0.206G	0.02288	0.007644	0.0168	1	320:
12% #2	5/40	[00:01<00:06,	5.15it/s]			
488/499	0.206G	0.02288	0.007644	0.0168	1	320:
15% #5	6/40	[00:01<00:06,	5.34it/s]			
488/499	0.206G	0.02068	0.007113	0.01633	1	320:
15% #5	6/40	[00:01<00:06,	5.34it/s]			

488/499	0.206G	0.02068	0.007113	0.01633	1	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
488/499	0.206G	0.02123	0.007533	0.01703	4	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
488/499	0.206G	0.02123	0.007533	0.01703	4	320:
20% ##	8/40 [00:01<00:05,	5.59it/s]				
488/499	0.206G	0.0198	0.007012	0.01716	1	320:
20% ##	8/40 [00:01<00:05,	5.59it/s]				
488/499	0.206G	0.0198	0.007012	0.01716	1	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
488/499	0.206G	0.01846	0.006857	0.01671	2	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
488/499	0.206G	0.01846	0.006857	0.01671	2	320:
25% ##5	10/40 [00:01<00:05,	5.54it/s]				
488/499	0.206G	0.01895	0.00806	0.01705	4	320:
25% ##5	10/40 [00:02<00:05,	5.54it/s]				
488/499	0.206G	0.01895	0.00806	0.01705	4	320:
28% ##7	11/40 [00:02<00:05,	5.48it/s]				
488/499	0.206G	0.01827	0.007648	0.01672	1	320:
28% ##7	11/40 [00:02<00:05,	5.48it/s]				
488/499	0.206G	0.01827	0.007648	0.01672	1	320:
30% ###	12/40 [00:02<00:05,	5.55it/s]				
488/499	0.206G	0.01839	0.007582	0.01686	1	320:
30% ###	12/40 [00:02<00:05,	5.55it/s]				
488/499	0.206G	0.01839	0.007582	0.01686	1	320:
32% ###2	13/40 [00:02<00:04,	5.62it/s]				
488/499	0.206G	0.01831	0.007942	0.01703	4	320:
32% ###2	13/40 [00:02<00:04,	5.62it/s]				
488/499	0.206G	0.01831	0.007942	0.01703	4	320:
35% ###5	14/40 [00:02<00:04,	5.37it/s]				
488/499	0.206G	0.01767	0.007807	0.01694	1	320:
35% ###5	14/40 [00:02<00:04,	5.37it/s]				
488/499	0.206G	0.01767	0.007807	0.01694	1	320:
38% ###7	15/40 [00:02<00:04,	5.52it/s]				
488/499	0.206G	0.01733	0.007641	0.01684	1	320:
38% ###7	15/40 [00:02<00:04,	5.52it/s]				
488/499	0.206G	0.01733	0.007641	0.01684	1	320:
40% ####	16/40 [00:02<00:04,	5.47it/s]				
488/499	0.206G	0.01685	0.00752	0.0167	2	320:
40% ####	16/40 [00:03<00:04,	5.47it/s]				
488/499	0.206G	0.01685	0.00752	0.0167	2	320:
42% ####2	17/40 [00:03<00:04,	5.24it/s]				
488/499	0.206G	0.01759	0.007554	0.0166	3	320:
42% ####2	17/40 [00:03<00:04,	5.24it/s]				
488/499	0.206G	0.01759	0.007554	0.0166	3	320:
45% ####5	18/40 [00:03<00:04,	5.43it/s]				
488/499	0.206G	0.01702	0.00735	0.01647	1	320:
45% ####5	18/40 [00:03<00:04,	5.43it/s]				

488/499	0.206G	0.01702	0.00735	0.01647	1	320:
48% #####7	19/40 [00:03<00:03,	5.54it/s]				
488/499	0.206G	0.01676	0.00739	0.01626	2	320:
48% #####7	19/40 [00:03<00:03,	5.54it/s]				
488/499	0.206G	0.01676	0.00739	0.01626	2	320:
50% #####	20/40 [00:03<00:03,	5.39it/s]				
488/499	0.206G	0.01697	0.007781	0.01648	4	320:
50% #####	20/40 [00:03<00:03,	5.39it/s]				
488/499	0.206G	0.01697	0.007781	0.01648	4	320:
52% #####2	21/40 [00:03<00:03,	5.57it/s]				
488/499	0.206G	0.01656	0.007597	0.0162	1	320:
52% #####2	21/40 [00:04<00:03,	5.57it/s]				
488/499	0.206G	0.01656	0.007597	0.0162	1	320:
55% #####5	22/40 [00:04<00:03,	5.64it/s]				
488/499	0.206G	0.01616	0.007402	0.01604	1	320:
55% #####5	22/40 [00:04<00:03,	5.64it/s]				
488/499	0.206G	0.01616	0.007402	0.01604	1	320:
57% #####7	23/40 [00:04<00:03,	5.65it/s]				
488/499	0.206G	0.01583	0.007309	0.01608	2	320:
57% #####7	23/40 [00:04<00:03,	5.65it/s]				
488/499	0.206G	0.01583	0.007309	0.01608	2	320:
60% #####	24/40 [00:04<00:02,	5.74it/s]				
488/499	0.206G	0.01547	0.00713	0.01606	1	320:
60% #####	24/40 [00:04<00:02,	5.74it/s]				
488/499	0.206G	0.01547	0.00713	0.01606	1	320:
62% #####2	25/40 [00:04<00:02,	5.77it/s]				
488/499	0.206G	0.01518	0.007042	0.016	1	320:
62% #####2	25/40 [00:04<00:02,	5.77it/s]				
488/499	0.206G	0.01518	0.007042	0.016	1	320:
65% #####5	26/40 [00:04<00:02,	5.74it/s]				
488/499	0.206G	0.01666	0.007017	0.0168	2	320:
65% #####5	26/40 [00:04<00:02,	5.74it/s]				
488/499	0.206G	0.01666	0.007017	0.0168	2	320:
68% #####7	27/40 [00:04<00:02,	5.77it/s]				
488/499	0.206G	0.01644	0.007009	0.01673	2	320:
68% #####7	27/40 [00:05<00:02,	5.77it/s]				
488/499	0.206G	0.01644	0.007009	0.01673	2	320:
70% #####	28/40 [00:05<00:02,	5.78it/s]				
488/499	0.206G	0.01722	0.007072	0.01683	2	320:
70% #####	28/40 [00:05<00:02,	5.78it/s]				
488/499	0.206G	0.01722	0.007072	0.01683	2	320:
72% #####2	29/40 [00:05<00:02,	5.44it/s]				
488/499	0.206G	0.01768	0.007259	0.0169	4	320:
72% #####2	29/40 [00:05<00:02,	5.44it/s]				
488/499	0.206G	0.01768	0.007259	0.0169	4	320:
75% #####5	30/40 [00:05<00:01,	5.47it/s]				
488/499	0.206G	0.01788	0.007401	0.01695	4	320:
75% #####5	30/40 [00:05<00:01,	5.47it/s]				

488/499	0.206G	0.01788	0.007401	0.01695	4	320:
78% #####7	31/40 [00:05<00:01,	5.57it/s]				
488/499	0.206G	0.01844	0.00774	0.01722	4	320:
78% #####7	31/40 [00:05<00:01,	5.57it/s]				
488/499	0.206G	0.01844	0.00774	0.01722	4	320:
80% #####	32/40 [00:05<00:01,	5.48it/s]				
488/499	0.206G	0.01819	0.007658	0.01734	2	320:
80% #####	32/40 [00:05<00:01,	5.48it/s]				
488/499	0.206G	0.01819	0.007658	0.01734	2	320:
82% #####2	33/40 [00:05<00:01,	5.72it/s]				
488/499	0.206G	0.01817	0.007898	0.01734	4	320:
82% #####2	33/40 [00:06<00:01,	5.72it/s]				
488/499	0.206G	0.01817	0.007898	0.01734	4	320:
85% #####5	34/40 [00:06<00:01,	5.46it/s]				
488/499	0.206G	0.01808	0.007909	0.0175	2	320:
85% #####5	34/40 [00:06<00:01,	5.46it/s]				
488/499	0.206G	0.01808	0.007909	0.0175	2	320:
88% #####7	35/40 [00:06<00:00,	5.55it/s]				
488/499	0.206G	0.01822	0.007847	0.01743	2	320:
88% #####7	35/40 [00:06<00:00,	5.55it/s]				
488/499	0.206G	0.01822	0.007847	0.01743	2	320:
90% #####	36/40 [00:06<00:00,	5.61it/s]				
488/499	0.206G	0.01914	0.007842	0.01761	2	320:
90% #####	36/40 [00:06<00:00,	5.61it/s]				
488/499	0.206G	0.01914	0.007842	0.01761	2	320:
92% #####2	37/40 [00:06<00:00,	5.39it/s]				
488/499	0.206G	0.0189	0.007763	0.01743	1	320:
92% #####2	37/40 [00:06<00:00,	5.39it/s]				
488/499	0.206G	0.0189	0.007763	0.01743	1	320:
95% #####5	38/40 [00:06<00:00,	5.64it/s]				
488/499	0.206G	0.01893	0.007657	0.01761	1	320:
95% #####5	38/40 [00:07<00:00,	5.64it/s]				
488/499	0.206G	0.01893	0.007657	0.01761	1	320:
98% #####7	39/40 [00:07<00:00,	5.54it/s]				
488/499	0.206G	0.0189	0.007864	0.01757	4	320:
98% #####7	39/40 [00:07<00:00,	5.54it/s]				
488/499	0.206G	0.0189	0.007864	0.01757	4	320:
100% #####	40/40 [00:07<00:00,	5.48it/s]				
488/499	0.206G	0.0189	0.007864	0.01757	4	320:
100% #####	40/40 [00:07<00:00,	5.52it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:01, 17.40it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20 [00:00<00:00, 18.25it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	30% ###	6/20	[00:00<00:00, 18.25it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20	[00:00<00:00, 18.27it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20	[00:00<00:00, 16.45it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20	[00:00<00:00, 17.11it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20	[00:00<00:00, 17.46it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20	[00:00<00:00, 16.96it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20	[00:01<00:00, 15.99it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20	[00:01<00:00, 15.36it/s]				
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20	[00:01<00:00, 16.56it/s]				
	all	40	40	0.98	0.975	0.991	
0.801							

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]				
489/499	0.206G	0.009581	0.003236	0.01217	1	320:	
0%		0/40	[00:00<?, ?it/s]				
489/499	0.206G	0.009581	0.003236	0.01217	1	320:	
2% 2		1/40	[00:00<00:07, 5.24it/s]				
489/499	0.206G	0.01752	0.003236	0.01426	1	320:	
2% 2		1/40	[00:00<00:07, 5.24it/s]				
489/499	0.206G	0.01752	0.003236	0.01426	1	320:	
5% 5		2/40	[00:00<00:07, 5.29it/s]				
489/499	0.206G	0.02611	0.004235	0.01617	2	320:	
5% 5		2/40	[00:00<00:07, 5.29it/s]				
489/499	0.206G	0.02611	0.004235	0.01617	2	320:	
8% 7		3/40	[00:00<00:07, 5.12it/s]				
489/499	0.206G	0.02536	0.0073	0.01801	4	320:	
8% 7		3/40	[00:00<00:07, 5.12it/s]				
489/499	0.206G	0.02536	0.0073	0.01801	4	320:	
10% #		4/40	[00:00<00:07, 4.87it/s]				
489/499	0.206G	0.02806	0.007216	0.01863	2	320:	
10% #		4/40	[00:00<00:07, 4.87it/s]				
489/499	0.206G	0.02806	0.007216	0.01863	2	320:	
12% #2		5/40	[00:00<00:06, 5.03it/s]				
489/499	0.206G	0.02479	0.006519	0.01863	1	320:	
12% #2		5/40	[00:01<00:06, 5.03it/s]				
489/499	0.206G	0.02479	0.006519	0.01863	1	320:	
15% #5		6/40	[00:01<00:06, 5.12it/s]				
489/499	0.206G	0.02893	0.00651	0.0183	2	320:	

15% #5	6/40 [00:01<00:06,	5.12it/s]				
489/499	0.206G	0.02893	0.00651	0.0183	2	320:
18% #7	7/40 [00:01<00:06,	5.05it/s]				
489/499	0.206G	0.02751	0.006134	0.01775	1	320:
18% #7	7/40 [00:01<00:06,	5.05it/s]				
489/499	0.206G	0.02751	0.006134	0.01775	1	320:
20% ##	8/40 [00:01<00:06,	5.14it/s]				
489/499	0.206G	0.02673	0.006313	0.01738	2	320:
20% ##	8/40 [00:01<00:06,	5.14it/s]				
489/499	0.206G	0.02673	0.006313	0.01738	2	320:
22% ##2	9/40 [00:01<00:06,	4.94it/s]				
489/499	0.206G	0.02501	0.006379	0.01789	2	320:
22% ##2	9/40 [00:01<00:06,	4.94it/s]				
489/499	0.206G	0.02501	0.006379	0.01789	2	320:
25% ##5	10/40 [00:01<00:05,	5.06it/s]				
489/499	0.206G	0.02653	0.006619	0.01816	3	320:
25% ##5	10/40 [00:02<00:05,	5.06it/s]				
489/499	0.206G	0.02653	0.006619	0.01816	3	320:
28% ##7	11/40 [00:02<00:06,	4.72it/s]				
489/499	0.206G	0.02516	0.006319	0.01767	1	320:
28% ##7	11/40 [00:02<00:06,	4.72it/s]				
489/499	0.206G	0.02516	0.006319	0.01767	1	320:
30% ###	12/40 [00:02<00:05,	4.83it/s]				
489/499	0.206G	0.02411	0.006201	0.01731	1	320:
30% ###	12/40 [00:02<00:05,	4.83it/s]				
489/499	0.206G	0.02411	0.006201	0.01731	1	320:
32% ###2	13/40 [00:02<00:05,	5.09it/s]				
489/499	0.206G	0.02287	0.00596	0.01701	1	320:
32% ###2	13/40 [00:02<00:05,	5.09it/s]				
489/499	0.206G	0.02287	0.00596	0.01701	1	320:
35% ###5	14/40 [00:02<00:05,	5.15it/s]				
489/499	0.206G	0.02214	0.005964	0.01667	2	320:
35% ###5	14/40 [00:02<00:05,	5.15it/s]				
489/499	0.206G	0.02214	0.005964	0.01667	2	320:
38% ###7	15/40 [00:02<00:05,	4.96it/s]				
489/499	0.206G	0.02316	0.006414	0.01735	4	320:
38% ###7	15/40 [00:03<00:05,	4.96it/s]				
489/499	0.206G	0.02316	0.006414	0.01735	4	320:
40% ####	16/40 [00:03<00:04,	5.07it/s]				
489/499	0.206G	0.02328	0.006437	0.0171	2	320:
40% ####	16/40 [00:03<00:04,	5.07it/s]				
489/499	0.206G	0.02328	0.006437	0.0171	2	320:
42% ####2	17/40 [00:03<00:04,	5.12it/s]				
489/499	0.206G	0.02255	0.006413	0.01722	2	320:
42% ####2	17/40 [00:03<00:04,	5.12it/s]				
489/499	0.206G	0.02255	0.006413	0.01722	2	320:
45% ####5	18/40 [00:03<00:04,	5.19it/s]				
489/499	0.206G	0.02304	0.006493	0.01852	2	320:

45% #####5	18/40 [00:03<00:04,	5.19it/s]				
489/499	0.206G	0.02304	0.006493	0.01852	2	320:
48% #####7	19/40 [00:03<00:04,	5.10it/s]				
489/499	0.206G	0.02293	0.006483	0.01832	1	320:
48% #####7	19/40 [00:03<00:04,	5.10it/s]				
489/499	0.206G	0.02293	0.006483	0.01832	1	320:
50% #####	20/40 [00:03<00:03,	5.28it/s]				
489/499	0.206G	0.02227	0.006326	0.01848	1	320:
50% #####	20/40 [00:04<00:03,	5.28it/s]				
489/499	0.206G	0.02227	0.006326	0.01848	1	320:
52% #####2	21/40 [00:04<00:03,	5.43it/s]				
489/499	0.206G	0.02218	0.006814	0.01847	4	320:
52% #####2	21/40 [00:04<00:03,	5.43it/s]				
489/499	0.206G	0.02218	0.006814	0.01847	4	320:
55% #####5	22/40 [00:04<00:03,	5.54it/s]				
489/499	0.206G	0.02388	0.006868	0.01849	2	320:
55% #####5	22/40 [00:04<00:03,	5.54it/s]				
489/499	0.206G	0.02388	0.006868	0.01849	2	320:
57% #####7	23/40 [00:04<00:03,	5.21it/s]				
489/499	0.206G	0.0244	0.007082	0.01875	4	320:
57% #####7	23/40 [00:04<00:03,	5.21it/s]				
489/499	0.206G	0.0244	0.007082	0.01875	4	320:
60% #####	24/40 [00:04<00:02,	5.38it/s]				
489/499	0.206G	0.02521	0.007067	0.01854	2	320:
60% #####	24/40 [00:04<00:02,	5.38it/s]				
489/499	0.206G	0.02521	0.007067	0.01854	2	320:
62% #####2	25/40 [00:04<00:02,	5.42it/s]				
489/499	0.206G	0.02608	0.007229	0.01947	2	320:
62% #####2	25/40 [00:05<00:02,	5.42it/s]				
489/499	0.206G	0.02608	0.007229	0.01947	2	320:
65% #####5	26/40 [00:05<00:02,	5.31it/s]				
489/499	0.206G	0.02565	0.007187	0.01937	2	320:
65% #####5	26/40 [00:05<00:02,	5.31it/s]				
489/499	0.206G	0.02565	0.007187	0.01937	2	320:
68% #####7	27/40 [00:05<00:02,	5.46it/s]				
489/499	0.206G	0.02552	0.007575	0.01941	4	320:
68% #####7	27/40 [00:05<00:02,	5.46it/s]				
489/499	0.206G	0.02552	0.007575	0.01941	4	320:
70% #####	28/40 [00:05<00:02,	5.27it/s]				
489/499	0.206G	0.02507	0.007457	0.01925	1	320:
70% #####	28/40 [00:05<00:02,	5.27it/s]				
489/499	0.206G	0.02507	0.007457	0.01925	1	320:
72% #####2	29/40 [00:05<00:02,	5.42it/s]				
489/499	0.206G	0.02479	0.007493	0.01927	2	320:
72% #####2	29/40 [00:05<00:02,	5.42it/s]				
489/499	0.206G	0.02479	0.007493	0.01927	2	320:
75% #####5	30/40 [00:05<00:01,	5.68it/s]				
489/499	0.206G	0.02484	0.007552	0.01933	2	320:

75%	#####5		30/40	[00:05<00:01,	5.68it/s]				
	489/499		0.206G	0.02484	0.007552	0.01933	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.41it/s]				
	489/499		0.206G	0.02455	0.007544	0.01931	2	320:	
78%	#####7		31/40	[00:06<00:01,	5.41it/s]				
	489/499		0.206G	0.02455	0.007544	0.01931	2	320:	
80%	#####		32/40	[00:06<00:01,	5.68it/s]				
	489/499		0.206G	0.02409	0.007404	0.01916	1	320:	
80%	#####		32/40	[00:06<00:01,	5.68it/s]				
	489/499		0.206G	0.02409	0.007404	0.01916	1	320:	
82%	#####2		33/40	[00:06<00:01,	5.57it/s]				
	489/499		0.206G	0.02399	0.007429	0.01899	2	320:	
82%	#####2		33/40	[00:06<00:01,	5.57it/s]				
	489/499		0.206G	0.02399	0.007429	0.01899	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.34it/s]				
	489/499		0.206G	0.02369	0.007312	0.01884	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.34it/s]				
	489/499		0.206G	0.02369	0.007312	0.01884	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.62it/s]				
	489/499		0.206G	0.02379	0.007236	0.01867	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.62it/s]				
	489/499		0.206G	0.02379	0.007236	0.01867	1	320:	
90%	#####		36/40	[00:06<00:00,	5.68it/s]				
	489/499		0.206G	0.02344	0.00712	0.0185	1	320:	
90%	#####		36/40	[00:07<00:00,	5.68it/s]				
	489/499		0.206G	0.02344	0.00712	0.0185	1	320:	
92%	#####2		37/40	[00:07<00:00,	5.71it/s]				
	489/499		0.206G	0.0237	0.007104	0.01838	2	320:	
92%	#####2		37/40	[00:07<00:00,	5.71it/s]				
	489/499		0.206G	0.0237	0.007104	0.01838	2	320:	
95%	#####5		38/40	[00:07<00:00,	5.75it/s]				
	489/499		0.206G	0.02333	0.006987	0.01819	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.75it/s]				
	489/499		0.206G	0.02333	0.006987	0.01819	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.77it/s]				
	489/499		0.206G	0.02315	0.00725	0.01822	4	320:	
98%	#####7		39/40	[00:07<00:00,	5.77it/s]				
	489/499		0.206G	0.02315	0.00725	0.01822	4	320:	
100%	#####		40/40	[00:07<00:00,	5.46it/s]				
	489/499		0.206G	0.02315	0.00725	0.01822	4	320:	
100%	#####		40/40	[00:07<00:00,	5.29it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 14.22it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:00, 16.36it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	17.19it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.73it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.26it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.90it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	17.32it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20	[00:01<00:00,	17.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.89it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	17.21it/s]		
	all	40	40	0.981	0.975	0.992
0.799						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
490/499	0.206G	0.03064	0.01045	0.01517	2	320:
0%	0/40	[00:00<?,	?it/s]			
490/499	0.206G	0.03064	0.01045	0.01517	2	320:
2% 2	1/40	[00:00<00:06,	5.76it/s]			
490/499	0.206G	0.03623	0.008457	0.0148	2	320:
2% 2	1/40	[00:00<00:06,	5.76it/s]			
490/499	0.206G	0.03623	0.008457	0.0148	2	320:
5% 5	2/40	[00:00<00:07,	5.24it/s]			
490/499	0.206G	0.02855	0.00722	0.0133	1	320:
5% 5	2/40	[00:00<00:07,	5.24it/s]			
490/499	0.206G	0.02855	0.00722	0.0133	1	320:
8% 7	3/40	[00:00<00:07,	5.27it/s]			
490/499	0.206G	0.02431	0.006559	0.01337	1	320:
8% 7	3/40	[00:00<00:07,	5.27it/s]			
490/499	0.206G	0.02431	0.006559	0.01337	1	320:
10% #	4/40	[00:00<00:06,	5.49it/s]			
490/499	0.206G	0.0228	0.007274	0.01517	4	320:
10% #	4/40	[00:00<00:06,	5.49it/s]			
490/499	0.206G	0.0228	0.007274	0.01517	4	320:
12% #2	5/40	[00:00<00:06,	5.43it/s]			
490/499	0.206G	0.02139	0.006662	0.01491	1	320:
12% #2	5/40	[00:01<00:06,	5.43it/s]			
490/499	0.206G	0.02139	0.006662	0.01491	1	320:
15% #5	6/40	[00:01<00:06,	5.36it/s]			
490/499	0.206G	0.02412	0.00693	0.01696	3	320:
15% #5	6/40	[00:01<00:06,	5.36it/s]			

490/499	0.206G	0.02412	0.00693	0.01696	3	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
490/499	0.206G	0.0259	0.007646	0.01819	4	320:
18% #7	7/40 [00:01<00:06,	5.49it/s]				
490/499	0.206G	0.0259	0.007646	0.01819	4	320:
20% ##	8/40 [00:01<00:06,	5.30it/s]				
490/499	0.206G	0.0261	0.008402	0.0189	4	320:
20% ##	8/40 [00:01<00:06,	5.30it/s]				
490/499	0.206G	0.0261	0.008402	0.0189	4	320:
22% ##2	9/40 [00:01<00:05,	5.45it/s]				
490/499	0.206G	0.02495	0.008542	0.01845	2	320:
22% ##2	9/40 [00:01<00:05,	5.45it/s]				
490/499	0.206G	0.02495	0.008542	0.01845	2	320:
25% ##5	10/40 [00:01<00:05,	5.28it/s]				
490/499	0.206G	0.0237	0.008047	0.0179	1	320:
25% ##5	10/40 [00:02<00:05,	5.28it/s]				
490/499	0.206G	0.0237	0.008047	0.0179	1	320:
28% ##7	11/40 [00:02<00:05,	5.29it/s]				
490/499	0.206G	0.02255	0.008125	0.01766	4	320:
28% ##7	11/40 [00:02<00:05,	5.29it/s]				
490/499	0.206G	0.02255	0.008125	0.01766	4	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
490/499	0.206G	0.02129	0.007777	0.01768	1	320:
30% ###	12/40 [00:02<00:05,	5.42it/s]				
490/499	0.206G	0.02129	0.007777	0.01768	1	320:
32% ###2	13/40 [00:02<00:04,	5.53it/s]				
490/499	0.206G	0.02152	0.007593	0.0183	2	320:
32% ###2	13/40 [00:02<00:04,	5.53it/s]				
490/499	0.206G	0.02152	0.007593	0.0183	2	320:
35% ###5	14/40 [00:02<00:04,	5.47it/s]				
490/499	0.206G	0.02075	0.007423	0.01824	2	320:
35% ###5	14/40 [00:02<00:04,	5.47it/s]				
490/499	0.206G	0.02075	0.007423	0.01824	2	320:
38% ###7	15/40 [00:02<00:04,	5.71it/s]				
490/499	0.206G	0.02011	0.00717	0.01786	1	320:
38% ###7	15/40 [00:02<00:04,	5.71it/s]				
490/499	0.206G	0.02011	0.00717	0.01786	1	320:
40% ####	16/40 [00:02<00:04,	5.74it/s]				
490/499	0.206G	0.01947	0.006936	0.0175	1	320:
40% ####	16/40 [00:03<00:04,	5.74it/s]				
490/499	0.206G	0.01947	0.006936	0.0175	1	320:
42% ####2	17/40 [00:03<00:03,	5.77it/s]				
490/499	0.206G	0.01897	0.00675	0.01729	1	320:
42% ####2	17/40 [00:03<00:03,	5.77it/s]				
490/499	0.206G	0.01897	0.00675	0.01729	1	320:
45% ####5	18/40 [00:03<00:03,	5.78it/s]				
490/499	0.206G	0.01944	0.006854	0.01789	2	320:
45% ####5	18/40 [00:03<00:03,	5.78it/s]				

490/499	0.206G	0.01944	0.006854	0.01789	2	320:
48% #####7	19/40 [00:03<00:03,	5.64it/s]				
490/499	0.206G	0.01952	0.006916	0.01819	2	320:
48% #####7	19/40 [00:03<00:03,	5.64it/s]				
490/499	0.206G	0.01952	0.006916	0.01819	2	320:
50% #####	20/40 [00:03<00:03,	5.69it/s]				
490/499	0.206G	0.02116	0.006987	0.01811	3	320:
50% #####	20/40 [00:03<00:03,	5.69it/s]				
490/499	0.206G	0.02116	0.006987	0.01811	3	320:
52% #####2	21/40 [00:03<00:03,	5.55it/s]				
490/499	0.206G	0.02074	0.006839	0.01809	1	320:
52% #####2	21/40 [00:04<00:03,	5.55it/s]				
490/499	0.206G	0.02074	0.006839	0.01809	1	320:
55% #####5	22/40 [00:04<00:03,	5.35it/s]				
490/499	0.206G	0.0214	0.007028	0.01826	2	320:
55% #####5	22/40 [00:04<00:03,	5.35it/s]				
490/499	0.206G	0.0214	0.007028	0.01826	2	320:
57% #####7	23/40 [00:04<00:03,	5.48it/s]				
490/499	0.206G	0.02094	0.007255	0.01805	4	320:
57% #####7	23/40 [00:04<00:03,	5.48it/s]				
490/499	0.206G	0.02094	0.007255	0.01805	4	320:
60% #####	24/40 [00:04<00:03,	5.28it/s]				
490/499	0.206G	0.02111	0.007483	0.01814	4	320:
60% #####	24/40 [00:04<00:03,	5.28it/s]				
490/499	0.206G	0.02111	0.007483	0.01814	4	320:
62% #####2	25/40 [00:04<00:02,	5.30it/s]				
490/499	0.206G	0.02102	0.007422	0.01796	1	320:
62% #####2	25/40 [00:04<00:02,	5.30it/s]				
490/499	0.206G	0.02102	0.007422	0.01796	1	320:
65% #####5	26/40 [00:04<00:02,	5.44it/s]				
490/499	0.206G	0.02129	0.007581	0.01804	4	320:
65% #####5	26/40 [00:04<00:02,	5.44it/s]				
490/499	0.206G	0.02129	0.007581	0.01804	4	320:
68% #####7	27/40 [00:04<00:02,	5.26it/s]				
490/499	0.206G	0.0212	0.007867	0.0182	4	320:
68% #####7	27/40 [00:05<00:02,	5.26it/s]				
490/499	0.206G	0.0212	0.007867	0.0182	4	320:
70% #####	28/40 [00:05<00:02,	5.41it/s]				
490/499	0.206G	0.021	0.008211	0.01824	4	320:
70% #####	28/40 [00:05<00:02,	5.41it/s]				
490/499	0.206G	0.021	0.008211	0.01824	4	320:
72% #####2	29/40 [00:05<00:01,	5.52it/s]				
490/499	0.206G	0.02061	0.008163	0.01805	2	320:
72% #####2	29/40 [00:05<00:01,	5.52it/s]				
490/499	0.206G	0.02061	0.008163	0.01805	2	320:
75% #####5	30/40 [00:05<00:01,	5.59it/s]				
490/499	0.206G	0.02031	0.008063	0.01783	1	320:
75% #####5	30/40 [00:05<00:01,	5.59it/s]				

490/499	0.206G	0.02031	0.008063	0.01783	1	320:
78% #####7	31/40 [00:05<00:01,	5.66it/s]				
490/499	0.206G	0.0208	0.008016	0.0179	2	320:
78% #####7	31/40 [00:05<00:01,	5.66it/s]				
490/499	0.206G	0.0208	0.008016	0.0179	2	320:
80% #####	32/40 [00:05<00:01,	5.41it/s]				
490/499	0.206G	0.02129	0.008028	0.01792	3	320:
80% #####	32/40 [00:06<00:01,	5.41it/s]				
490/499	0.206G	0.02129	0.008028	0.01792	3	320:
82% #####2	33/40 [00:06<00:01,	5.40it/s]				
490/499	0.206G	0.02089	0.007896	0.0179	1	320:
82% #####2	33/40 [00:06<00:01,	5.40it/s]				
490/499	0.206G	0.02089	0.007896	0.0179	1	320:
85% #####5	34/40 [00:06<00:01,	5.52it/s]				
490/499	0.206G	0.02081	0.008016	0.01827	3	320:
85% #####5	34/40 [00:06<00:01,	5.52it/s]				
490/499	0.206G	0.02081	0.008016	0.01827	3	320:
88% #####7	35/40 [00:06<00:00,	5.48it/s]				
490/499	0.206G	0.02065	0.007909	0.01809	1	320:
88% #####7	35/40 [00:06<00:00,	5.48it/s]				
490/499	0.206G	0.02065	0.007909	0.01809	1	320:
90% #####	36/40 [00:06<00:00,	5.68it/s]				
490/499	0.206G	0.02049	0.007774	0.01794	1	320:
90% #####	36/40 [00:06<00:00,	5.68it/s]				
490/499	0.206G	0.02049	0.007774	0.01794	1	320:
92% #####2	37/40 [00:06<00:00,	5.43it/s]				
490/499	0.206G	0.02035	0.007984	0.01818	4	320:
92% #####2	37/40 [00:06<00:00,	5.43it/s]				
490/499	0.206G	0.02035	0.007984	0.01818	4	320:
95% #####5	38/40 [00:06<00:00,	5.12it/s]				
490/499	0.206G	0.02013	0.007862	0.01804	1	320:
95% #####5	38/40 [00:07<00:00,	5.12it/s]				
490/499	0.206G	0.02013	0.007862	0.01804	1	320:
98% #####7	39/40 [00:07<00:00,	5.06it/s]				
490/499	0.206G	0.02077	0.007863	0.0179	2	320:
98% #####7	39/40 [00:07<00:00,	5.06it/s]				
490/499	0.206G	0.02077	0.007863	0.0179	2	320:
100% #####	40/40 [00:07<00:00,	5.02it/s]				
490/499	0.206G	0.02077	0.007863	0.0179	2	320:
100% #####	40/40 [00:07<00:00,	5.42it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:01, 11.48it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20 [00:00<00:01, 13.74it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	30% ###		6/20	[00:00<00:01, 13.95it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	40% ####		8/20	[00:00<00:00, 14.53it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	50% #####		10/20	[00:00<00:00, 15.13it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	60% #####		12/20	[00:00<00:00, 14.81it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	70% #####		14/20	[00:00<00:00, 14.99it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	80% #####		16/20	[00:01<00:00, 14.87it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	90% #####		18/20	[00:01<00:00, 15.23it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	100% #####		20/20	[00:01<00:00, 14.91it/s]			
	Class		Images	Instances	P	R	mAP50
mAP50-95:	100% #####		20/20	[00:01<00:00, 14.66it/s]			
	all		40	40	0.981	0.975	0.992

0.799

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40	[00:00<?, ?it/s]			
491/499	0.206G	0.01447	0.006719	0.01583	2	320:
0%		0/40	[00:00<?, ?it/s]			
491/499	0.206G	0.01447	0.006719	0.01583	2	320:
2% 2		1/40	[00:00<00:07, 5.33it/s]			
491/499	0.206G	0.01865	0.011	0.01779	4	320:
2% 2		1/40	[00:00<00:07, 5.33it/s]			
491/499	0.206G	0.01865	0.011	0.01779	4	320:
5% 5		2/40	[00:00<00:07, 5.30it/s]			
491/499	0.206G	0.02039	0.01232	0.01889	4	320:
5% 5		2/40	[00:00<00:07, 5.30it/s]			
491/499	0.206G	0.02039	0.01232	0.01889	4	320:
8% 7		3/40	[00:00<00:06, 5.31it/s]			
491/499	0.206G	0.02413	0.0108	0.01865	2	320:
8% 7		3/40	[00:00<00:06, 5.31it/s]			
491/499	0.206G	0.02413	0.0108	0.01865	2	320:
10% #		4/40	[00:00<00:07, 4.99it/s]			
491/499	0.206G	0.02575	0.01175	0.01864	4	320:
10% #		4/40	[00:00<00:07, 4.99it/s]			
491/499	0.206G	0.02575	0.01175	0.01864	4	320:
12% #2		5/40	[00:00<00:06, 5.24it/s]			
491/499	0.206G	0.02278	0.01032	0.01871	1	320:
12% #2		5/40	[00:01<00:06, 5.24it/s]			
491/499	0.206G	0.02278	0.01032	0.01871	1	320:
15% #5		6/40	[00:01<00:06, 5.43it/s]			
491/499	0.206G	0.02154	0.009359	0.01781	1	320:

15% #5	6/40 [00:01<00:06,	5.43it/s]				
491/499	0.206G	0.02154	0.009359	0.01781	1	320:
18% #7	7/40 [00:01<00:06,	5.40it/s]				
491/499	0.206G	0.02105	0.01024	0.01763	4	320:
18% #7	7/40 [00:01<00:06,	5.40it/s]				
491/499	0.206G	0.02105	0.01024	0.01763	4	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
491/499	0.206G	0.02131	0.01076	0.01812	4	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
491/499	0.206G	0.02131	0.01076	0.01812	4	320:
22% ##2	9/40 [00:01<00:05,	5.31it/s]				
491/499	0.206G	0.0203	0.01007	0.01763	1	320:
22% ##2	9/40 [00:01<00:05,	5.31it/s]				
491/499	0.206G	0.0203	0.01007	0.01763	1	320:
25% ##5	10/40 [00:01<00:05,	5.46it/s]				
491/499	0.206G	0.0215	0.009928	0.01729	2	320:
25% ##5	10/40 [00:02<00:05,	5.46it/s]				
491/499	0.206G	0.0215	0.009928	0.01729	2	320:
28% ##7	11/40 [00:02<00:05,	5.56it/s]				
491/499	0.206G	0.02053	0.009338	0.01716	1	320:
28% ##7	11/40 [00:02<00:05,	5.56it/s]				
491/499	0.206G	0.02053	0.009338	0.01716	1	320:
30% ###	12/40 [00:02<00:05,	5.35it/s]				
491/499	0.206G	0.02108	0.009848	0.0178	4	320:
30% ###	12/40 [00:02<00:05,	5.35it/s]				
491/499	0.206G	0.02108	0.009848	0.0178	4	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
491/499	0.206G	0.02117	0.009586	0.01753	2	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
491/499	0.206G	0.02117	0.009586	0.01753	2	320:
35% ###5	14/40 [00:02<00:04,	5.32it/s]				
491/499	0.206G	0.02174	0.009923	0.01805	4	320:
35% ###5	14/40 [00:02<00:04,	5.32it/s]				
491/499	0.206G	0.02174	0.009923	0.01805	4	320:
38% ###7	15/40 [00:02<00:04,	5.33it/s]				
491/499	0.206G	0.02101	0.009902	0.01797	3	320:
38% ###7	15/40 [00:02<00:04,	5.33it/s]				
491/499	0.206G	0.02101	0.009902	0.01797	3	320:
40% ####	16/40 [00:02<00:04,	5.33it/s]				
491/499	0.206G	0.02022	0.009459	0.01759	1	320:
40% ####	16/40 [00:03<00:04,	5.33it/s]				
491/499	0.206G	0.02022	0.009459	0.01759	1	320:
42% ####2	17/40 [00:03<00:04,	5.44it/s]				
491/499	0.206G	0.02137	0.00948	0.0189	2	320:
42% ####2	17/40 [00:03<00:04,	5.44it/s]				
491/499	0.206G	0.02137	0.00948	0.0189	2	320:
45% ####5	18/40 [00:03<00:03,	5.55it/s]				
491/499	0.206G	0.02241	0.00938	0.02038	2	320:

45% #####5	18/40 [00:03<00:03,	5.55it/s]				
491/499	0.206G	0.02241	0.00938	0.02038	2	320:
48% #####7	19/40 [00:03<00:03,	5.63it/s]				
491/499	0.206G	0.02235	0.009093	0.02051	1	320:
48% #####7	19/40 [00:03<00:03,	5.63it/s]				
491/499	0.206G	0.02235	0.009093	0.02051	1	320:
50% #####	20/40 [00:03<00:03,	5.66it/s]				
491/499	0.206G	0.02165	0.008771	0.02026	1	320:
50% #####	20/40 [00:03<00:03,	5.66it/s]				
491/499	0.206G	0.02165	0.008771	0.02026	1	320:
52% #####2	21/40 [00:03<00:03,	5.71it/s]				
491/499	0.206G	0.0231	0.008625	0.02001	2	320:
52% #####2	21/40 [00:04<00:03,	5.71it/s]				
491/499	0.206G	0.0231	0.008625	0.02001	2	320:
55% #####5	22/40 [00:04<00:03,	5.74it/s]				
491/499	0.206G	0.0232	0.0089	0.01995	4	320:
55% #####5	22/40 [00:04<00:03,	5.74it/s]				
491/499	0.206G	0.0232	0.0089	0.01995	4	320:
57% #####7	23/40 [00:04<00:03,	5.59it/s]				
491/499	0.206G	0.02348	0.008829	0.02101	2	320:
57% #####7	23/40 [00:04<00:03,	5.59it/s]				
491/499	0.206G	0.02348	0.008829	0.02101	2	320:
60% #####	24/40 [00:04<00:02,	5.66it/s]				
491/499	0.206G	0.02292	0.008632	0.02066	1	320:
60% #####	24/40 [00:04<00:02,	5.66it/s]				
491/499	0.206G	0.02292	0.008632	0.02066	1	320:
62% #####2	25/40 [00:04<00:02,	5.70it/s]				
491/499	0.206G	0.02332	0.009122	0.02069	4	320:
62% #####2	25/40 [00:04<00:02,	5.70it/s]				
491/499	0.206G	0.02332	0.009122	0.02069	4	320:
65% #####5	26/40 [00:04<00:02,	5.44it/s]				
491/499	0.206G	0.02303	0.00895	0.0205	1	320:
65% #####5	26/40 [00:04<00:02,	5.44it/s]				
491/499	0.206G	0.02303	0.00895	0.0205	1	320:
68% #####7	27/40 [00:04<00:02,	5.55it/s]				
491/499	0.206G	0.02372	0.008946	0.02041	2	320:
68% #####7	27/40 [00:05<00:02,	5.55it/s]				
491/499	0.206G	0.02372	0.008946	0.02041	2	320:
70% #####	28/40 [00:05<00:02,	5.48it/s]				
491/499	0.206G	0.02328	0.008788	0.02012	1	320:
70% #####	28/40 [00:05<00:02,	5.48it/s]				
491/499	0.206G	0.02328	0.008788	0.02012	1	320:
72% #####2	29/40 [00:05<00:01,	5.55it/s]				
491/499	0.206G	0.02276	0.008684	0.01986	2	320:
72% #####2	29/40 [00:05<00:01,	5.55it/s]				
491/499	0.206G	0.02276	0.008684	0.01986	2	320:
75% #####5	30/40 [00:05<00:01,	5.63it/s]				
491/499	0.206G	0.02266	0.008585	0.02013	2	320:

75%	#####5		30/40	[00:05<00:01,	5.63it/s]				
	491/499		0.206G	0.02266	0.008585	0.02013	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.69it/s]				
	491/499		0.206G	0.02222	0.008398	0.01991	1	320:	
78%	#####7		31/40	[00:05<00:01,	5.69it/s]				
	491/499		0.206G	0.02222	0.008398	0.01991	1	320:	
80%	#####		32/40	[00:05<00:01,	5.71it/s]				
	491/499		0.206G	0.02208	0.008319	0.01987	2	320:	
80%	#####		32/40	[00:05<00:01,	5.71it/s]				
	491/499		0.206G	0.02208	0.008319	0.01987	2	320:	
82%	#####2		33/40	[00:05<00:01,	5.74it/s]				
	491/499		0.206G	0.02192	0.008505	0.01986	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.74it/s]				
	491/499		0.206G	0.02192	0.008505	0.01986	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.76it/s]				
	491/499		0.206G	0.02173	0.008419	0.01975	1	320:	
85%	#####5		34/40	[00:06<00:01,	5.76it/s]				
	491/499		0.206G	0.02173	0.008419	0.01975	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.76it/s]				
	491/499		0.206G	0.02136	0.008267	0.01955	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.76it/s]				
	491/499		0.206G	0.02136	0.008267	0.01955	1	320:	
90%	#####		36/40	[00:06<00:00,	5.78it/s]				
	491/499		0.206G	0.02119	0.008383	0.01945	4	320:	
90%	#####		36/40	[00:06<00:00,	5.78it/s]				
	491/499		0.206G	0.02119	0.008383	0.01945	4	320:	
92%	#####2		37/40	[00:06<00:00,	5.49it/s]				
	491/499		0.206G	0.02091	0.008261	0.01932	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.49it/s]				
	491/499		0.206G	0.02091	0.008261	0.01932	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.57it/s]				
	491/499		0.206G	0.02067	0.008131	0.01914	1	320:	
95%	#####5		38/40	[00:07<00:00,	5.57it/s]				
	491/499		0.206G	0.02067	0.008131	0.01914	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.64it/s]				
	491/499		0.206G	0.02051	0.008126	0.01904	2	320:	
98%	#####7		39/40	[00:07<00:00,	5.64it/s]				
	491/499		0.206G	0.02051	0.008126	0.01904	2	320:	
100%	#####		40/40	[00:07<00:00,	5.69it/s]				
	491/499		0.206G	0.02051	0.008126	0.01904	2	320:	
100%	#####		40/40	[00:07<00:00,	5.53it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 12.72it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##		4/20	[00:00<00:01, 15.50it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	14.88it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	14.41it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	15.67it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	15.78it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	16.31it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	17.10it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	16.05it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.68it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	15.93it/s]		
	all	40	40	0.981	0.975	0.991
0.802						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
492/499	0.206G	0.009498	0.007078	0.01894	2	320:
0%	0/40	[00:00<?, ?it/s]				
492/499	0.206G	0.009498	0.007078	0.01894	2	320:
2% 2	1/40	[00:00<00:06,	5.76it/s]			
492/499	0.206G	0.0191	0.008255	0.01873	2	320:
2% 2	1/40	[00:00<00:06,	5.76it/s]			
492/499	0.206G	0.0191	0.008255	0.01873	2	320:
5% 5	2/40	[00:00<00:06,	5.79it/s]			
492/499	0.206G	0.0237	0.01064	0.02125	4	320:
5% 5	2/40	[00:00<00:06,	5.79it/s]			
492/499	0.206G	0.0237	0.01064	0.02125	4	320:
8% 7	3/40	[00:00<00:06,	5.57it/s]			
492/499	0.206G	0.01991	0.009069	0.01918	1	320:
8% 7	3/40	[00:00<00:06,	5.57it/s]			
492/499	0.206G	0.01991	0.009069	0.01918	1	320:
10% #	4/40	[00:00<00:06,	5.63it/s]			
492/499	0.206G	0.02385	0.01075	0.02013	4	320:
10% #	4/40	[00:00<00:06,	5.63it/s]			
492/499	0.206G	0.02385	0.01075	0.02013	4	320:
12% #2	5/40	[00:00<00:06,	5.51it/s]			
492/499	0.206G	0.02337	0.01034	0.01913	2	320:
12% #2	5/40	[00:01<00:06,	5.51it/s]			
492/499	0.206G	0.02337	0.01034	0.01913	2	320:
15% #5	6/40	[00:01<00:06,	5.62it/s]			

492/499	0.206G	0.02206	0.01043	0.02043	4	320:
15% #5	6/40 [00:01<00:06,	5.62it/s]				
492/499	0.206G	0.02206	0.01043	0.02043	4	320:
18% #7	7/40 [00:01<00:05,	5.69it/s]				
492/499	0.206G	0.02051	0.009807	0.01985	2	320:
18% #7	7/40 [00:01<00:05,	5.69it/s]				
492/499	0.206G	0.02051	0.009807	0.01985	2	320:
20% ##	8/40 [00:01<00:05,	5.57it/s]				
492/499	0.206G	0.01974	0.009503	0.01948	1	320:
20% ##	8/40 [00:01<00:05,	5.57it/s]				
492/499	0.206G	0.01974	0.009503	0.01948	1	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
492/499	0.206G	0.01957	0.01011	0.01944	4	320:
22% ##2	9/40 [00:01<00:05,	5.64it/s]				
492/499	0.206G	0.01957	0.01011	0.01944	4	320:
25% ##5	10/40 [00:01<00:05,	5.68it/s]				
492/499	0.206G	0.01961	0.01003	0.0197	3	320:
25% ##5	10/40 [00:01<00:05,	5.68it/s]				
492/499	0.206G	0.01961	0.01003	0.0197	3	320:
28% ##7	11/40 [00:01<00:05,	5.57it/s]				
492/499	0.206G	0.0193	0.009883	0.01966	2	320:
28% ##7	11/40 [00:02<00:05,	5.57it/s]				
492/499	0.206G	0.0193	0.009883	0.01966	2	320:
30% ###	12/40 [00:02<00:05,	5.49it/s]				
492/499	0.206G	0.02054	0.009614	0.02011	2	320:
30% ###	12/40 [00:02<00:05,	5.49it/s]				
492/499	0.206G	0.02054	0.009614	0.02011	2	320:
32% ###2	13/40 [00:02<00:04,	5.56it/s]				
492/499	0.206G	0.01951	0.009142	0.01974	1	320:
32% ###2	13/40 [00:02<00:04,	5.56it/s]				
492/499	0.206G	0.01951	0.009142	0.01974	1	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
492/499	0.206G	0.01975	0.009379	0.01992	4	320:
35% ###5	14/40 [00:02<00:04,	5.49it/s]				
492/499	0.206G	0.01975	0.009379	0.01992	4	320:
38% ###7	15/40 [00:02<00:04,	5.54it/s]				
492/499	0.206G	0.02056	0.009683	0.02001	4	320:
38% ###7	15/40 [00:02<00:04,	5.54it/s]				
492/499	0.206G	0.02056	0.009683	0.02001	4	320:
40% ####	16/40 [00:02<00:04,	5.49it/s]				
492/499	0.206G	0.02085	0.01042	0.02069	4	320:
40% ####	16/40 [00:03<00:04,	5.49it/s]				
492/499	0.206G	0.02085	0.01042	0.02069	4	320:
42% ####2	17/40 [00:03<00:04,	5.59it/s]				
492/499	0.206G	0.02089	0.01065	0.02066	4	320:
42% ####2	17/40 [00:03<00:04,	5.59it/s]				
492/499	0.206G	0.02089	0.01065	0.02066	4	320:
45% ####5	18/40 [00:03<00:03,	5.64it/s]				

492/499	0.206G	0.02088	0.0108	0.02046	4	320:
45% #####5	18/40 [00:03<00:03,	5.64it/s]				
492/499	0.206G	0.02088	0.0108	0.02046	4	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
492/499	0.206G	0.02031	0.01064	0.02009	2	320:
48% #####7	19/40 [00:03<00:03,	5.51it/s]				
492/499	0.206G	0.02031	0.01064	0.02009	2	320:
50% #####	20/40 [00:03<00:03,	5.64it/s]				
492/499	0.206G	0.02038	0.01117	0.02022	4	320:
50% #####	20/40 [00:03<00:03,	5.64it/s]				
492/499	0.206G	0.02038	0.01117	0.02022	4	320:
52% #####2	21/40 [00:03<00:03,	5.50it/s]				
492/499	0.206G	0.01995	0.01091	0.01995	1	320:
52% #####2	21/40 [00:03<00:03,	5.50it/s]				
492/499	0.206G	0.01995	0.01091	0.01995	1	320:
55% #####5	22/40 [00:03<00:03,	5.79it/s]				
492/499	0.206G	0.02124	0.01073	0.02055	2	320:
55% #####5	22/40 [00:04<00:03,	5.79it/s]				
492/499	0.206G	0.02124	0.01073	0.02055	2	320:
57% #####7	23/40 [00:04<00:02,	5.80it/s]				
492/499	0.206G	0.02079	0.01049	0.02015	1	320:
57% #####7	23/40 [00:04<00:02,	5.80it/s]				
492/499	0.206G	0.02079	0.01049	0.02015	1	320:
60% #####	24/40 [00:04<00:02,	5.79it/s]				
492/499	0.206G	0.02081	0.01056	0.02022	4	320:
60% #####	24/40 [00:04<00:02,	5.79it/s]				
492/499	0.206G	0.02081	0.01056	0.02022	4	320:
62% #####2	25/40 [00:04<00:02,	5.64it/s]				
492/499	0.206G	0.02076	0.01053	0.02029	2	320:
62% #####2	25/40 [00:04<00:02,	5.64it/s]				
492/499	0.206G	0.02076	0.01053	0.02029	2	320:
65% #####5	26/40 [00:04<00:02,	5.54it/s]				
492/499	0.206G	0.02037	0.01037	0.02009	2	320:
65% #####5	26/40 [00:04<00:02,	5.54it/s]				
492/499	0.206G	0.02037	0.01037	0.02009	2	320:
68% #####7	27/40 [00:04<00:02,	5.35it/s]				
492/499	0.206G	0.02043	0.01061	0.02002	4	320:
68% #####7	27/40 [00:05<00:02,	5.35it/s]				
492/499	0.206G	0.02043	0.01061	0.02002	4	320:
70% #####	28/40 [00:05<00:02,	5.19it/s]				
492/499	0.206G	0.02057	0.01081	0.01987	4	320:
70% #####	28/40 [00:05<00:02,	5.19it/s]				
492/499	0.206G	0.02057	0.01081	0.01987	4	320:
72% #####2	29/40 [00:05<00:02,	5.10it/s]				
492/499	0.206G	0.02134	0.01086	0.01973	2	320:
72% #####2	29/40 [00:05<00:02,	5.10it/s]				
492/499	0.206G	0.02134	0.01086	0.01973	2	320:
75% #####5	30/40 [00:05<00:01,	5.02it/s]				

492/499	0.206G	0.02118	0.01088	0.0196	4	320:
75% #####5	30/40 [00:05<00:01,	5.02it/s]				
492/499	0.206G	0.02118	0.01088	0.0196	4	320:
78% #####7	31/40 [00:05<00:01,	4.88it/s]				
492/499	0.206G	0.02172	0.01072	0.0199	2	320:
78% #####7	31/40 [00:05<00:01,	4.88it/s]				
492/499	0.206G	0.02172	0.01072	0.0199	2	320:
80% #####	32/40 [00:05<00:01,	4.82it/s]				
492/499	0.206G	0.02214	0.01085	0.01987	4	320:
80% #####	32/40 [00:06<00:01,	4.82it/s]				
492/499	0.206G	0.02214	0.01085	0.01987	4	320:
82% #####2	33/40 [00:06<00:01,	4.92it/s]				
492/499	0.206G	0.02214	0.0108	0.01994	2	320:
82% #####2	33/40 [00:06<00:01,	4.92it/s]				
492/499	0.206G	0.02214	0.0108	0.01994	2	320:
85% #####5	34/40 [00:06<00:01,	4.92it/s]				
492/499	0.206G	0.02175	0.01065	0.01977	2	320:
85% #####5	34/40 [00:06<00:01,	4.92it/s]				
492/499	0.206G	0.02175	0.01065	0.01977	2	320:
88% #####7	35/40 [00:06<00:00,	5.03it/s]				
492/499	0.206G	0.02137	0.0105	0.01983	1	320:
88% #####7	35/40 [00:06<00:00,	5.03it/s]				
492/499	0.206G	0.02137	0.0105	0.01983	1	320:
90% #####	36/40 [00:06<00:00,	4.67it/s]				
492/499	0.206G	0.02107	0.01029	0.02002	1	320:
90% #####	36/40 [00:06<00:00,	4.67it/s]				
492/499	0.206G	0.02107	0.01029	0.02002	1	320:
92% #####2	37/40 [00:06<00:00,	4.83it/s]				
492/499	0.206G	0.02086	0.0101	0.02004	1	320:
92% #####2	37/40 [00:07<00:00,	4.83it/s]				
492/499	0.206G	0.02086	0.0101	0.02004	1	320:
95% #####5	38/40 [00:07<00:00,	4.98it/s]				
492/499	0.206G	0.02055	0.009962	0.01994	1	320:
95% #####5	38/40 [00:07<00:00,	4.98it/s]				
492/499	0.206G	0.02055	0.009962	0.01994	1	320:
98% #####7	39/40 [00:07<00:00,	4.96it/s]				
492/499	0.206G	0.02019	0.009866	0.01979	2	320:
98% #####7	39/40 [00:07<00:00,	4.96it/s]				
492/499	0.206G	0.02019	0.009866	0.01979	2	320:
100% #####	40/40 [00:07<00:00,	5.05it/s]				
492/499	0.206G	0.02019	0.009866	0.01979	2	320:
100% #####	40/40 [00:07<00:00,	5.34it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:01, 16.00it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:01, 14.89it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 16.27it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 15.59it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 16.18it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 14.84it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 15.82it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:01<00:00, 16.53it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 16.94it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.33it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.35it/s]					
	all	40	40	0.98	0.975	0.992	
0.802							

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
493/499	0.206G	0.00483	0.002363	0.01437	1	320:	
0%		0/40 [00:00<?, ?it/s]					
493/499	0.206G	0.00483	0.002363	0.01437	1	320:	
2% 2		1/40 [00:00<00:05, 6.60it/s]					
493/499	0.206G	0.007682	0.006017	0.01667	2	320:	
2% 2		1/40 [00:00<00:05, 6.60it/s]					
493/499	0.206G	0.007682	0.006017	0.01667	2	320:	
5% 5		2/40 [00:00<00:06, 5.79it/s]					
493/499	0.206G	0.008226	0.00503	0.01473	1	320:	
5% 5		2/40 [00:00<00:06, 5.79it/s]					
493/499	0.206G	0.008226	0.00503	0.01473	1	320:	
8% 7		3/40 [00:00<00:06, 5.57it/s]					
493/499	0.206G	0.007685	0.004796	0.01583	1	320:	
8% 7		3/40 [00:00<00:06, 5.57it/s]					
493/499	0.206G	0.007685	0.004796	0.01583	1	320:	
10% #		4/40 [00:00<00:06, 5.27it/s]					
493/499	0.206G	0.007345	0.004318	0.01492	1	320:	
10% #		4/40 [00:00<00:06, 5.27it/s]					
493/499	0.206G	0.007345	0.004318	0.01492	1	320:	
12% #2		5/40 [00:00<00:06, 5.29it/s]					
493/499	0.206G	0.007708	0.005405	0.01457	4	320:	
12% #2		5/40 [00:01<00:06, 5.29it/s]					
493/499	0.206G	0.007708	0.005405	0.01457	4	320:	

15% #5	6/40 [00:01<00:06,	5.14it/s]				
493/499	0.206G	0.008016	0.005115	0.01404	1	320:
15% #5	6/40 [00:01<00:06,	5.14it/s]				
493/499	0.206G	0.008016	0.005115	0.01404	1	320:
18% #7	7/40 [00:01<00:06,	5.34it/s]				
493/499	0.206G	0.009215	0.006116	0.01451	4	320:
18% #7	7/40 [00:01<00:06,	5.34it/s]				
493/499	0.206G	0.009215	0.006116	0.01451	4	320:
20% ##	8/40 [00:01<00:06,	5.20it/s]				
493/499	0.206G	0.009578	0.005927	0.01443	2	320:
20% ##	8/40 [00:01<00:06,	5.20it/s]				
493/499	0.206G	0.009578	0.005927	0.01443	2	320:
22% ##2	9/40 [00:01<00:05,	5.35it/s]				
493/499	0.206G	0.01101	0.006567	0.01487	4	320:
22% ##2	9/40 [00:01<00:05,	5.35it/s]				
493/499	0.206G	0.01101	0.006567	0.01487	4	320:
25% ##5	10/40 [00:01<00:05,	5.21it/s]				
493/499	0.206G	0.01148	0.007078	0.01488	4	320:
25% ##5	10/40 [00:02<00:05,	5.21it/s]				
493/499	0.206G	0.01148	0.007078	0.01488	4	320:
28% ##7	11/40 [00:02<00:05,	5.25it/s]				
493/499	0.206G	0.01397	0.00779	0.01607	4	320:
28% ##7	11/40 [00:02<00:05,	5.25it/s]				
493/499	0.206G	0.01397	0.00779	0.01607	4	320:
30% ###	12/40 [00:02<00:05,	5.39it/s]				
493/499	0.206G	0.01465	0.007862	0.01617	2	320:
30% ###	12/40 [00:02<00:05,	5.39it/s]				
493/499	0.206G	0.01465	0.007862	0.01617	2	320:
32% ###2	13/40 [00:02<00:05,	5.24it/s]				
493/499	0.206G	0.01603	0.008431	0.01646	4	320:
32% ###2	13/40 [00:02<00:05,	5.24it/s]				
493/499	0.206G	0.01603	0.008431	0.01646	4	320:
35% ###5	14/40 [00:02<00:05,	5.16it/s]				
493/499	0.206G	0.0154	0.008102	0.01642	1	320:
35% ###5	14/40 [00:02<00:05,	5.16it/s]				
493/499	0.206G	0.0154	0.008102	0.01642	1	320:
38% ###7	15/40 [00:02<00:04,	5.33it/s]				
493/499	0.206G	0.01548	0.007922	0.01636	1	320:
38% ###7	15/40 [00:02<00:04,	5.33it/s]				
493/499	0.206G	0.01548	0.007922	0.01636	1	320:
40% ####	16/40 [00:02<00:04,	5.46it/s]				
493/499	0.206G	0.01599	0.008634	0.01678	4	320:
40% ####	16/40 [00:03<00:04,	5.46it/s]				
493/499	0.206G	0.01599	0.008634	0.01678	4	320:
42% ####2	17/40 [00:03<00:04,	5.53it/s]				
493/499	0.206G	0.01602	0.008561	0.01715	2	320:
42% ####2	17/40 [00:03<00:04,	5.53it/s]				
493/499	0.206G	0.01602	0.008561	0.01715	2	320:

45% #####5	18/40 [00:03<00:03,	5.63it/s]				
493/499	0.206G	0.0161	0.008412	0.01738	2	320:
45% #####5	18/40 [00:03<00:03,	5.63it/s]				
493/499	0.206G	0.0161	0.008412	0.01738	2	320:
48% #####7	19/40 [00:03<00:03,	5.69it/s]				
493/499	0.206G	0.01574	0.00834	0.01754	2	320:
48% #####7	19/40 [00:03<00:03,	5.69it/s]				
493/499	0.206G	0.01574	0.00834	0.01754	2	320:
50% #####	20/40 [00:03<00:03,	5.72it/s]				
493/499	0.206G	0.01649	0.008293	0.01733	2	320:
50% #####	20/40 [00:03<00:03,	5.72it/s]				
493/499	0.206G	0.01649	0.008293	0.01733	2	320:
52% #####2	21/40 [00:03<00:03,	5.58it/s]				
493/499	0.206G	0.01655	0.008436	0.01783	3	320:
52% #####2	21/40 [00:04<00:03,	5.58it/s]				
493/499	0.206G	0.01655	0.008436	0.01783	3	320:
55% #####5	22/40 [00:04<00:03,	5.50it/s]				
493/499	0.206G	0.01735	0.00843	0.01818	2	320:
55% #####5	22/40 [00:04<00:03,	5.50it/s]				
493/499	0.206G	0.01735	0.00843	0.01818	2	320:
57% #####7	23/40 [00:04<00:03,	5.35it/s]				
493/499	0.206G	0.01724	0.00845	0.01811	4	320:
57% #####7	23/40 [00:04<00:03,	5.35it/s]				
493/499	0.206G	0.01724	0.00845	0.01811	4	320:
60% #####	24/40 [00:04<00:02,	5.57it/s]				
493/499	0.206G	0.01698	0.008397	0.01788	1	320:
60% #####	24/40 [00:04<00:02,	5.57it/s]				
493/499	0.206G	0.01698	0.008397	0.01788	1	320:
62% #####2	25/40 [00:04<00:02,	5.36it/s]				
493/499	0.206G	0.01896	0.008307	0.0178	2	320:
62% #####2	25/40 [00:04<00:02,	5.36it/s]				
493/499	0.206G	0.01896	0.008307	0.0178	2	320:
65% #####5	26/40 [00:04<00:02,	5.08it/s]				
493/499	0.206G	0.01851	0.008229	0.01763	2	320:
65% #####5	26/40 [00:04<00:02,	5.08it/s]				
493/499	0.206G	0.01851	0.008229	0.01763	2	320:
68% #####7	27/40 [00:04<00:02,	5.41it/s]				
493/499	0.206G	0.01939	0.008167	0.01757	2	320:
68% #####7	27/40 [00:05<00:02,	5.41it/s]				
493/499	0.206G	0.01939	0.008167	0.01757	2	320:
70% #####	28/40 [00:05<00:02,	5.53it/s]				
493/499	0.206G	0.01982	0.008536	0.01803	4	320:
70% #####	28/40 [00:05<00:02,	5.53it/s]				
493/499	0.206G	0.01982	0.008536	0.01803	4	320:
72% #####2	29/40 [00:05<00:02,	5.47it/s]				
493/499	0.206G	0.01949	0.008332	0.01799	1	320:
72% #####2	29/40 [00:05<00:02,	5.47it/s]				
493/499	0.206G	0.01949	0.008332	0.01799	1	320:

75% #####5		30/40	[00:05<00:01,	5.56it/s]			
493/499		0.206G	0.01927	0.008328	0.01821	2	320:
75% #####5		30/40	[00:05<00:01,	5.56it/s]			
493/499		0.206G	0.01927	0.008328	0.01821	2	320:
78% #####7		31/40	[00:05<00:01,	5.64it/s]			
493/499		0.206G	0.0202	0.00829	0.01819	2	320:
78% #####7		31/40	[00:05<00:01,	5.64it/s]			
493/499		0.206G	0.0202	0.00829	0.01819	2	320:
80% #####		32/40	[00:05<00:01,	5.66it/s]			
493/499		0.206G	0.02004	0.008365	0.01819	4	320:
80% #####		32/40	[00:06<00:01,	5.66it/s]			
493/499		0.206G	0.02004	0.008365	0.01819	4	320:
82% #####2		33/40	[00:06<00:01,	5.71it/s]			
493/499		0.206G	0.01974	0.008225	0.01809	1	320:
82% #####2		33/40	[00:06<00:01,	5.71it/s]			
493/499		0.206G	0.01974	0.008225	0.01809	1	320:
85% #####5		34/40	[00:06<00:01,	5.75it/s]			
493/499		0.206G	0.01978	0.008513	0.01811	4	320:
85% #####5		34/40	[00:06<00:01,	5.75it/s]			
493/499		0.206G	0.01978	0.008513	0.01811	4	320:
88% #####7		35/40	[00:06<00:00,	5.75it/s]			
493/499		0.206G	0.01951	0.008411	0.01798	1	320:
88% #####7		35/40	[00:06<00:00,	5.75it/s]			
493/499		0.206G	0.01951	0.008411	0.01798	1	320:
90% #####		36/40	[00:06<00:00,	5.77it/s]			
493/499		0.206G	0.01951	0.008326	0.01787	2	320:
90% #####		36/40	[00:06<00:00,	5.77it/s]			
493/499		0.206G	0.01951	0.008326	0.01787	2	320:
92% #####2		37/40	[00:06<00:00,	5.63it/s]			
493/499		0.206G	0.01927	0.008194	0.01786	1	320:
92% #####2		37/40	[00:06<00:00,	5.63it/s]			
493/499		0.206G	0.01927	0.008194	0.01786	1	320:
95% #####5		38/40	[00:06<00:00,	5.67it/s]			
493/499		0.206G	0.01961	0.0082	0.01779	2	320:
95% #####5		38/40	[00:07<00:00,	5.67it/s]			
493/499		0.206G	0.01961	0.0082	0.01779	2	320:
98% #####7		39/40	[00:07<00:00,	5.71it/s]			
493/499		0.206G	0.02052	0.008187	0.01781	3	320:
98% #####7		39/40	[00:07<00:00,	5.71it/s]			
493/499		0.206G	0.02052	0.008187	0.01781	3	320:
100% #####		40/40	[00:07<00:00,	5.59it/s]			
493/499		0.206G	0.02052	0.008187	0.01781	3	320:
100% #####		40/40	[00:07<00:00,	5.49it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20	[00:00<?, ?it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20	[00:00<00:01, 15.72it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00,	17.18it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	15.69it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	15.07it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	16.03it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.04it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	16.71it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:00<00:00,	16.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	17.00it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.78it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.41it/s]		
	all	40	40	0.98	0.975	0.992
0.802						

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
494/499	0.206G	0.02014	0.002578	0.006492	1	320:
0%	0/40	[00:00<?, ?it/s]				
494/499	0.206G	0.02014	0.002578	0.006492	1	320:
2% 2	1/40	[00:00<00:06,	6.31it/s]			
494/499	0.206G	0.02821	0.009023	0.01227	3	320:
2% 2	1/40	[00:00<00:06,	6.31it/s]			
494/499	0.206G	0.02821	0.009023	0.01227	3	320:
5% 5	2/40	[00:00<00:06,	5.98it/s]			
494/499	0.206G	0.02264	0.007818	0.01259	1	320:
5% 5	2/40	[00:00<00:06,	5.98it/s]			
494/499	0.206G	0.02264	0.007818	0.01259	1	320:
8% 7	3/40	[00:00<00:06,	5.91it/s]			
494/499	0.206G	0.02423	0.00984	0.01629	4	320:
8% 7	3/40	[00:00<00:06,	5.91it/s]			
494/499	0.206G	0.02423	0.00984	0.01629	4	320:
10% #	4/40	[00:00<00:06,	5.62it/s]			
494/499	0.206G	0.02136	0.008505	0.01641	1	320:
10% #	4/40	[00:00<00:06,	5.62it/s]			
494/499	0.206G	0.02136	0.008505	0.01641	1	320:
12% #2	5/40	[00:00<00:06,	5.72it/s]			
494/499	0.206G	0.02063	0.009342	0.01728	4	320:
12% #2	5/40	[00:01<00:06,	5.72it/s]			

494/499	0.206G	0.02063	0.009342	0.01728	4	320:
15% #5	6/40 [00:01<00:06,	5.58it/s]				
494/499	0.206G	0.02043	0.009034	0.0168	2	320:
15% #5	6/40 [00:01<00:06,	5.58it/s]				
494/499	0.206G	0.02043	0.009034	0.0168	2	320:
18% #7	7/40 [00:01<00:05,	5.64it/s]				
494/499	0.206G	0.01934	0.008396	0.01669	1	320:
18% #7	7/40 [00:01<00:05,	5.64it/s]				
494/499	0.206G	0.01934	0.008396	0.01669	1	320:
20% ##	8/40 [00:01<00:05,	5.69it/s]				
494/499	0.206G	0.01999	0.008939	0.01729	4	320:
20% ##	8/40 [00:01<00:05,	5.69it/s]				
494/499	0.206G	0.01999	0.008939	0.01729	4	320:
22% ##2	9/40 [00:01<00:05,	5.73it/s]				
494/499	0.206G	0.01908	0.008839	0.01716	2	320:
22% ##2	9/40 [00:01<00:05,	5.73it/s]				
494/499	0.206G	0.01908	0.008839	0.01716	2	320:
25% ##5	10/40 [00:01<00:05,	5.76it/s]				
494/499	0.206G	0.0186	0.008887	0.01675	2	320:
25% ##5	10/40 [00:01<00:05,	5.76it/s]				
494/499	0.206G	0.0186	0.008887	0.01675	2	320:
28% ##7	11/40 [00:01<00:05,	5.76it/s]				
494/499	0.206G	0.01849	0.008804	0.01707	3	320:
28% ##7	11/40 [00:02<00:05,	5.76it/s]				
494/499	0.206G	0.01849	0.008804	0.01707	3	320:
30% ###	12/40 [00:02<00:05,	5.33it/s]				
494/499	0.206G	0.01867	0.009334	0.01768	4	320:
30% ###	12/40 [00:02<00:05,	5.33it/s]				
494/499	0.206G	0.01867	0.009334	0.01768	4	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
494/499	0.206G	0.01804	0.009099	0.01732	1	320:
32% ###2	13/40 [00:02<00:05,	5.34it/s]				
494/499	0.206G	0.01804	0.009099	0.01732	1	320:
35% ###5	14/40 [00:02<00:04,	5.61it/s]				
494/499	0.206G	0.01725	0.00885	0.01735	2	320:
35% ###5	14/40 [00:02<00:04,	5.61it/s]				
494/499	0.206G	0.01725	0.00885	0.01735	2	320:
38% ###7	15/40 [00:02<00:04,	5.25it/s]				
494/499	0.206G	0.01704	0.008812	0.01722	2	320:
38% ###7	15/40 [00:02<00:04,	5.25it/s]				
494/499	0.206G	0.01704	0.008812	0.01722	2	320:
40% ####	16/40 [00:02<00:04,	5.26it/s]				
494/499	0.206G	0.01669	0.008743	0.01698	2	320:
40% ####	16/40 [00:03<00:04,	5.26it/s]				
494/499	0.206G	0.01669	0.008743	0.01698	2	320:
42% ####2	17/40 [00:03<00:04,	5.27it/s]				
494/499	0.206G	0.01654	0.008519	0.01677	1	320:
42% ####2	17/40 [00:03<00:04,	5.27it/s]				

494/499	0.206G	0.01654	0.008519	0.01677	1	320:
45% #####5	18/40 [00:03<00:04,	5.17it/s]				
494/499	0.206G	0.01686	0.009189	0.01679	4	320:
45% #####5	18/40 [00:03<00:04,	5.17it/s]				
494/499	0.206G	0.01686	0.009189	0.01679	4	320:
48% #####7	19/40 [00:03<00:04,	5.08it/s]				
494/499	0.206G	0.01662	0.009244	0.01667	4	320:
48% #####7	19/40 [00:03<00:04,	5.08it/s]				
494/499	0.206G	0.01662	0.009244	0.01667	4	320:
50% #####	20/40 [00:03<00:04,	4.81it/s]				
494/499	0.206G	0.01645	0.009248	0.01679	2	320:
50% #####	20/40 [00:03<00:04,	4.81it/s]				
494/499	0.206G	0.01645	0.009248	0.01679	2	320:
52% #####2	21/40 [00:03<00:03,	4.81it/s]				
494/499	0.206G	0.01607	0.009241	0.01682	2	320:
52% #####2	21/40 [00:04<00:03,	4.81it/s]				
494/499	0.206G	0.01607	0.009241	0.01682	2	320:
55% #####5	22/40 [00:04<00:03,	4.84it/s]				
494/499	0.206G	0.01739	0.009236	0.01695	3	320:
55% #####5	22/40 [00:04<00:03,	4.84it/s]				
494/499	0.206G	0.01739	0.009236	0.01695	3	320:
57% #####7	23/40 [00:04<00:03,	4.87it/s]				
494/499	0.206G	0.01777	0.009474	0.01708	4	320:
57% #####7	23/40 [00:04<00:03,	4.87it/s]				
494/499	0.206G	0.01777	0.009474	0.01708	4	320:
60% #####	24/40 [00:04<00:03,	4.78it/s]				
494/499	0.206G	0.01746	0.009444	0.01699	2	320:
60% #####	24/40 [00:04<00:03,	4.78it/s]				
494/499	0.206G	0.01746	0.009444	0.01699	2	320:
62% #####2	25/40 [00:04<00:03,	4.82it/s]				
494/499	0.206G	0.01761	0.009627	0.0173	4	320:
62% #####2	25/40 [00:04<00:03,	4.82it/s]				
494/499	0.206G	0.01761	0.009627	0.0173	4	320:
65% #####5	26/40 [00:04<00:02,	4.80it/s]				
494/499	0.206G	0.01778	0.009485	0.01729	1	320:
65% #####5	26/40 [00:05<00:02,	4.80it/s]				
494/499	0.206G	0.01778	0.009485	0.01729	1	320:
68% #####7	27/40 [00:05<00:02,	4.99it/s]				
494/499	0.206G	0.01826	0.009937	0.01736	4	320:
68% #####7	27/40 [00:05<00:02,	4.99it/s]				
494/499	0.206G	0.01826	0.009937	0.01736	4	320:
70% #####	28/40 [00:05<00:02,	4.86it/s]				
494/499	0.206G	0.01881	0.009901	0.01743	2	320:
70% #####	28/40 [00:05<00:02,	4.86it/s]				
494/499	0.206G	0.01881	0.009901	0.01743	2	320:
72% #####2	29/40 [00:05<00:02,	4.75it/s]				
494/499	0.206G	0.01862	0.009821	0.01748	2	320:
72% #####2	29/40 [00:05<00:02,	4.75it/s]				

494/499	0.206G	0.01862	0.009821	0.01748	2	320:
75% #####5	30/40 [00:05<00:01,	5.03it/s]				
494/499	0.206G	0.01828	0.009606	0.01726	1	320:
75% #####5	30/40 [00:05<00:01,	5.03it/s]				
494/499	0.206G	0.01828	0.009606	0.01726	1	320:
78% #####7	31/40 [00:05<00:01,	5.24it/s]				
494/499	0.206G	0.01834	0.009753	0.01727	4	320:
78% #####7	31/40 [00:06<00:01,	5.24it/s]				
494/499	0.206G	0.01834	0.009753	0.01727	4	320:
80% #####	32/40 [00:06<00:01,	5.38it/s]				
494/499	0.206G	0.01819	0.009696	0.01716	2	320:
80% #####	32/40 [00:06<00:01,	5.38it/s]				
494/499	0.206G	0.01819	0.009696	0.01716	2	320:
82% #####2	33/40 [00:06<00:01,	5.51it/s]				
494/499	0.206G	0.01815	0.009847	0.01717	4	320:
82% #####2	33/40 [00:06<00:01,	5.51it/s]				
494/499	0.206G	0.01815	0.009847	0.01717	4	320:
85% #####5	34/40 [00:06<00:01,	5.45it/s]				
494/499	0.206G	0.01845	0.009972	0.01755	2	320:
85% #####5	34/40 [00:06<00:01,	5.45it/s]				
494/499	0.206G	0.01845	0.009972	0.01755	2	320:
88% #####7	35/40 [00:06<00:00,	5.53it/s]				
494/499	0.206G	0.01845	0.009944	0.01813	2	320:
88% #####7	35/40 [00:06<00:00,	5.53it/s]				
494/499	0.206G	0.01845	0.009944	0.01813	2	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
494/499	0.206G	0.01848	0.01004	0.01805	4	320:
90% #####	36/40 [00:06<00:00,	5.47it/s]				
494/499	0.206G	0.01848	0.01004	0.01805	4	320:
92% #####2	37/40 [00:06<00:00,	5.57it/s]				
494/499	0.206G	0.01914	0.01005	0.01835	4	320:
92% #####2	37/40 [00:07<00:00,	5.57it/s]				
494/499	0.206G	0.01914	0.01005	0.01835	4	320:
95% #####5	38/40 [00:07<00:00,	5.36it/s]				
494/499	0.206G	0.01905	0.01008	0.01873	4	320:
95% #####5	38/40 [00:07<00:00,	5.36it/s]				
494/499	0.206G	0.01905	0.01008	0.01873	4	320:
98% #####7	39/40 [00:07<00:00,	5.35it/s]				
494/499	0.206G	0.01915	0.01014	0.01876	4	320:
98% #####7	39/40 [00:07<00:00,	5.35it/s]				
494/499	0.206G	0.01915	0.01014	0.01876	4	320:
100% #####	40/40 [00:07<00:00,	5.15it/s]				
494/499	0.206G	0.01915	0.01014	0.01876	4	320:
100% #####	40/40 [00:07<00:00,	5.27it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	10% #	2/20 [00:00<00:01, 16.68it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	20% ##	4/20 [00:00<00:00, 17.59it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 17.90it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 18.05it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 17.12it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	65% #####5	13/20 [00:00<00:00, 17.96it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	75% #####5	15/20 [00:00<00:00, 18.06it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	85% #####5	17/20 [00:00<00:00, 18.13it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5	19/20 [00:01<00:00, 17.95it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.78it/s]					
	all	40	40	0.98	0.975	0.99	
0.803							

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40 [00:00<?, ?it/s]					
495/499	0.206G	0.02386	0.009463	0.02391	1	320:
0%	0/40 [00:00<?, ?it/s]					
495/499	0.206G	0.02386	0.009463	0.02391	1	320:
2% 2	1/40 [00:00<00:06, 5.76it/s]					
495/499	0.206G	0.02002	0.007271	0.02013	1	320:
2% 2	1/40 [00:00<00:06, 5.76it/s]					
495/499	0.206G	0.02002	0.007271	0.02013	1	320:
5% 5	2/40 [00:00<00:06, 5.80it/s]					
495/499	0.206G	0.02021	0.009461	0.01858	1	320:
5% 5	2/40 [00:00<00:06, 5.80it/s]					
495/499	0.206G	0.02021	0.009461	0.01858	1	320:
8% 7	3/40 [00:00<00:06, 6.05it/s]					
495/499	0.206G	0.01854	0.00978	0.01773	4	320:
8% 7	3/40 [00:00<00:06, 6.05it/s]					
495/499	0.206G	0.01854	0.00978	0.01773	4	320:
10% #	4/40 [00:00<00:06, 5.96it/s]					
495/499	0.206G	0.01738	0.009818	0.01763	2	320:
10% #	4/40 [00:00<00:06, 5.96it/s]					
495/499	0.206G	0.01738	0.009818	0.01763	2	320:
12% #2	5/40 [00:00<00:05, 5.91it/s]					
495/499	0.206G	0.01631	0.01051	0.01708	4	320:
12% #2	5/40 [00:01<00:05, 5.91it/s]					
495/499	0.206G	0.01631	0.01051	0.01708	4	320:

15% #5	6/40 [00:01<00:05,	5.69it/s]				
495/499	0.206G	0.02151	0.01011	0.01713	2	320:
15% #5	6/40 [00:01<00:05,	5.69it/s]				
495/499	0.206G	0.02151	0.01011	0.01713	2	320:
18% #7	7/40 [00:01<00:05,	5.71it/s]				
495/499	0.206G	0.02062	0.009521	0.01695	2	320:
18% #7	7/40 [00:01<00:05,	5.71it/s]				
495/499	0.206G	0.02062	0.009521	0.01695	2	320:
20% ##	8/40 [00:01<00:05,	5.75it/s]				
495/499	0.206G	0.02153	0.01034	0.0184	4	320:
20% ##	8/40 [00:01<00:05,	5.75it/s]				
495/499	0.206G	0.02153	0.01034	0.0184	4	320:
22% ##2	9/40 [00:01<00:05,	5.61it/s]				
495/499	0.206G	0.02092	0.009874	0.01806	2	320:
22% ##2	9/40 [00:01<00:05,	5.61it/s]				
495/499	0.206G	0.02092	0.009874	0.01806	2	320:
25% ##5	10/40 [00:01<00:05,	5.65it/s]				
495/499	0.206G	0.0201	0.009283	0.01804	1	320:
25% ##5	10/40 [00:01<00:05,	5.65it/s]				
495/499	0.206G	0.0201	0.009283	0.01804	1	320:
28% ##7	11/40 [00:01<00:04,	5.86it/s]				
495/499	0.206G	0.01903	0.008814	0.01765	1	320:
28% ##7	11/40 [00:02<00:04,	5.86it/s]				
495/499	0.206G	0.01903	0.008814	0.01765	1	320:
30% ###	12/40 [00:02<00:04,	5.69it/s]				
495/499	0.206G	0.02092	0.009119	0.01817	4	320:
30% ###	12/40 [00:02<00:04,	5.69it/s]				
495/499	0.206G	0.02092	0.009119	0.01817	4	320:
32% ###2	13/40 [00:02<00:04,	5.41it/s]				
495/499	0.206G	0.02284	0.008905	0.01888	2	320:
32% ###2	13/40 [00:02<00:04,	5.41it/s]				
495/499	0.206G	0.02284	0.008905	0.01888	2	320:
35% ###5	14/40 [00:02<00:04,	5.39it/s]				
495/499	0.206G	0.0221	0.008743	0.01851	2	320:
35% ###5	14/40 [00:02<00:04,	5.39it/s]				
495/499	0.206G	0.0221	0.008743	0.01851	2	320:
38% ###7	15/40 [00:02<00:04,	5.66it/s]				
495/499	0.206G	0.0211	0.008387	0.01836	1	320:
38% ###7	15/40 [00:02<00:04,	5.66it/s]				
495/499	0.206G	0.0211	0.008387	0.01836	1	320:
40% ####	16/40 [00:02<00:04,	5.54it/s]				
495/499	0.206G	0.02048	0.008236	0.01816	2	320:
40% ####	16/40 [00:03<00:04,	5.54it/s]				
495/499	0.206G	0.02048	0.008236	0.01816	2	320:
42% ####2	17/40 [00:03<00:04,	5.47it/s]				
495/499	0.206G	0.02005	0.008074	0.01794	1	320:
42% ####2	17/40 [00:03<00:04,	5.47it/s]				
495/499	0.206G	0.02005	0.008074	0.01794	1	320:

45% #####5	18/40 [00:03<00:04,	5.43it/s]				
495/499	0.206G	0.01953	0.007971	0.01764	1	320:
45% #####5	18/40 [00:03<00:04,	5.43it/s]				
495/499	0.206G	0.01953	0.007971	0.01764	1	320:
48% #####7	19/40 [00:03<00:03,	5.54it/s]				
495/499	0.206G	0.02008	0.008355	0.01793	4	320:
48% #####7	19/40 [00:03<00:03,	5.54it/s]				
495/499	0.206G	0.02008	0.008355	0.01793	4	320:
50% #####	20/40 [00:03<00:03,	5.62it/s]				
495/499	0.206G	0.01952	0.008104	0.01787	1	320:
50% #####	20/40 [00:03<00:03,	5.62it/s]				
495/499	0.206G	0.01952	0.008104	0.01787	1	320:
52% #####2	21/40 [00:03<00:03,	5.49it/s]				
495/499	0.206G	0.01899	0.007843	0.01765	1	320:
52% #####2	21/40 [00:03<00:03,	5.49it/s]				
495/499	0.206G	0.01899	0.007843	0.01765	1	320:
55% #####5	22/40 [00:03<00:03,	5.76it/s]				
495/499	0.206G	0.01947	0.008345	0.01817	4	320:
55% #####5	22/40 [00:04<00:03,	5.76it/s]				
495/499	0.206G	0.01947	0.008345	0.01817	4	320:
57% #####7	23/40 [00:04<00:03,	5.62it/s]				
495/499	0.206G	0.01914	0.008255	0.01816	2	320:
57% #####7	23/40 [00:04<00:03,	5.62it/s]				
495/499	0.206G	0.01914	0.008255	0.01816	2	320:
60% #####	24/40 [00:04<00:02,	5.84it/s]				
495/499	0.206G	0.01883	0.008166	0.01783	1	320:
60% #####	24/40 [00:04<00:02,	5.84it/s]				
495/499	0.206G	0.01883	0.008166	0.01783	1	320:
62% #####2	25/40 [00:04<00:02,	5.80it/s]				
495/499	0.206G	0.01954	0.008097	0.01775	2	320:
62% #####2	25/40 [00:04<00:02,	5.80it/s]				
495/499	0.206G	0.01954	0.008097	0.01775	2	320:
65% #####5	26/40 [00:04<00:02,	5.81it/s]				
495/499	0.206G	0.01932	0.008241	0.0182	4	320:
65% #####5	26/40 [00:04<00:02,	5.81it/s]				
495/499	0.206G	0.01932	0.008241	0.0182	4	320:
68% #####7	27/40 [00:04<00:02,	5.81it/s]				
495/499	0.206G	0.01945	0.008183	0.01871	2	320:
68% #####7	27/40 [00:04<00:02,	5.81it/s]				
495/499	0.206G	0.01945	0.008183	0.01871	2	320:
70% #####	28/40 [00:04<00:02,	5.64it/s]				
495/499	0.206G	0.0205	0.008262	0.01861	2	320:
70% #####	28/40 [00:05<00:02,	5.64it/s]				
495/499	0.206G	0.0205	0.008262	0.01861	2	320:
72% #####2	29/40 [00:05<00:01,	5.54it/s]				
495/499	0.206G	0.0203	0.008371	0.01886	3	320:
72% #####2	29/40 [00:05<00:01,	5.54it/s]				
495/499	0.206G	0.0203	0.008371	0.01886	3	320:

75%	#####5		30/40	[00:05<00:01,	5.62it/s]				
	495/499		0.206G	0.0206	0.008405	0.01883	2	320:	
75%	#####5		30/40	[00:05<00:01,	5.62it/s]				
	495/499		0.206G	0.0206	0.008405	0.01883	2	320:	
78%	#####7		31/40	[00:05<00:01,	5.51it/s]				
	495/499		0.206G	0.02074	0.008751	0.01888	4	320:	
78%	#####7		31/40	[00:05<00:01,	5.51it/s]				
	495/499		0.206G	0.02074	0.008751	0.01888	4	320:	
80%	#####		32/40	[00:05<00:01,	5.32it/s]				
	495/499		0.206G	0.02039	0.008674	0.01903	2	320:	
80%	#####		32/40	[00:05<00:01,	5.32it/s]				
	495/499		0.206G	0.02039	0.008674	0.01903	2	320:	
82%	#####2		33/40	[00:05<00:01,	5.46it/s]				
	495/499		0.206G	0.02096	0.008889	0.01905	4	320:	
82%	#####2		33/40	[00:06<00:01,	5.46it/s]				
	495/499		0.206G	0.02096	0.008889	0.01905	4	320:	
85%	#####5		34/40	[00:06<00:01,	5.43it/s]				
	495/499		0.206G	0.02075	0.008897	0.01896	2	320:	
85%	#####5		34/40	[00:06<00:01,	5.43it/s]				
	495/499		0.206G	0.02075	0.008897	0.01896	2	320:	
88%	#####7		35/40	[00:06<00:00,	5.54it/s]				
	495/499		0.206G	0.02048	0.008717	0.01877	1	320:	
88%	#####7		35/40	[00:06<00:00,	5.54it/s]				
	495/499		0.206G	0.02048	0.008717	0.01877	1	320:	
90%	#####		36/40	[00:06<00:00,	5.62it/s]				
	495/499		0.206G	0.02026	0.008621	0.01867	1	320:	
90%	#####		36/40	[00:06<00:00,	5.62it/s]				
	495/499		0.206G	0.02026	0.008621	0.01867	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.51it/s]				
	495/499		0.206G	0.02051	0.008575	0.01877	1	320:	
92%	#####2		37/40	[00:06<00:00,	5.51it/s]				
	495/499		0.206G	0.02051	0.008575	0.01877	1	320:	
95%	#####5		38/40	[00:06<00:00,	5.60it/s]				
	495/499		0.206G	0.02033	0.008525	0.01865	2	320:	
95%	#####5		38/40	[00:06<00:00,	5.60it/s]				
	495/499		0.206G	0.02033	0.008525	0.01865	2	320:	
98%	#####7		39/40	[00:06<00:00,	5.52it/s]				
	495/499		0.206G	0.02025	0.008457	0.01851	1	320:	
98%	#####7		39/40	[00:07<00:00,	5.52it/s]				
	495/499		0.206G	0.02025	0.008457	0.01851	1	320:	
100%	#####		40/40	[00:07<00:00,	5.58it/s]				
	495/499		0.206G	0.02025	0.008457	0.01851	1	320:	
100%	#####		40/40	[00:07<00:00,	5.62it/s]				

		Class	Images	Instances	P	R	mAP50
mAP50-95:	0%			0/20	[00:00<?, ?it/s]		
		Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #			2/20	[00:00<00:00, 18.28it/s]		

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:00,	18.29it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	35% ###5	7/20	[00:00<00:00,	17.66it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	45% ####5	9/20	[00:00<00:00,	17.11it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	55% #####5	11/20	[00:00<00:00,	16.73it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	65% #####5	13/20	[00:00<00:00,	16.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	75% #####5	15/20	[00:00<00:00,	15.67it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	85% #####5	17/20	[00:01<00:00,	15.72it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	95% #####5	19/20	[00:01<00:00,	16.43it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.36it/s]		
	all	40	40	0.98	0.975	0.99

0.803

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?,	?it/s]			
496/499	0.206G	0.01144	0.006414	0.01317	2	320:
0%	0/40	[00:00<?,	?it/s]			
496/499	0.206G	0.01144	0.006414	0.01317	2	320:
2% 2	1/40	[00:00<00:06,	6.40it/s]			
496/499	0.206G	0.01834	0.009769	0.01599	4	320:
2% 2	1/40	[00:00<00:06,	6.40it/s]			
496/499	0.206G	0.01834	0.009769	0.01599	4	320:
5% 5	2/40	[00:00<00:07,	5.43it/s]			
496/499	0.206G	0.03032	0.009373	0.01713	3	320:
5% 5	2/40	[00:00<00:07,	5.43it/s]			
496/499	0.206G	0.03032	0.009373	0.01713	3	320:
8% 7	3/40	[00:00<00:06,	5.60it/s]			
496/499	0.206G	0.02565	0.008559	0.01663	2	320:
8% 7	3/40	[00:00<00:06,	5.60it/s]			
496/499	0.206G	0.02565	0.008559	0.01663	2	320:
10% #	4/40	[00:00<00:06,	5.31it/s]			
496/499	0.206G	0.02273	0.00773	0.01611	1	320:
10% #	4/40	[00:00<00:06,	5.31it/s]			
496/499	0.206G	0.02273	0.00773	0.01611	1	320:
12% #2	5/40	[00:00<00:06,	5.30it/s]			
496/499	0.206G	0.02049	0.006998	0.01552	1	320:
12% #2	5/40	[00:01<00:06,	5.30it/s]			
496/499	0.206G	0.02049	0.006998	0.01552	1	320:
15% #5	6/40	[00:01<00:06,	5.16it/s]			

496/499	0.206G	0.01906	0.006402	0.01508	1	320:
15% #5	6/40 [00:01<00:06,	5.16it/s]				
496/499	0.206G	0.01906	0.006402	0.01508	1	320:
18% #7	7/40 [00:01<00:06,	5.08it/s]				
496/499	0.206G	0.01999	0.00745	0.01563	3	320:
18% #7	7/40 [00:01<00:06,	5.08it/s]				
496/499	0.206G	0.01999	0.00745	0.01563	3	320:
20% ##	8/40 [00:01<00:06,	5.01it/s]				
496/499	0.206G	0.02136	0.008391	0.01665	4	320:
20% ##	8/40 [00:01<00:06,	5.01it/s]				
496/499	0.206G	0.02136	0.008391	0.01665	4	320:
22% ##2	9/40 [00:01<00:06,	4.99it/s]				
496/499	0.206G	0.02205	0.008166	0.01652	2	320:
22% ##2	9/40 [00:01<00:06,	4.99it/s]				
496/499	0.206G	0.02205	0.008166	0.01652	2	320:
25% ##5	10/40 [00:01<00:06,	4.84it/s]				
496/499	0.206G	0.02145	0.008274	0.01639	2	320:
25% ##5	10/40 [00:02<00:06,	4.84it/s]				
496/499	0.206G	0.02145	0.008274	0.01639	2	320:
28% ##7	11/40 [00:02<00:05,	4.86it/s]				
496/499	0.206G	0.02221	0.008983	0.01728	4	320:
28% ##7	11/40 [00:02<00:05,	4.86it/s]				
496/499	0.206G	0.02221	0.008983	0.01728	4	320:
30% ###	12/40 [00:02<00:05,	4.88it/s]				
496/499	0.206G	0.02183	0.008739	0.01725	2	320:
30% ###	12/40 [00:02<00:05,	4.88it/s]				
496/499	0.206G	0.02183	0.008739	0.01725	2	320:
32% ###2	13/40 [00:02<00:05,	4.89it/s]				
496/499	0.206G	0.02179	0.008652	0.01705	2	320:
32% ###2	13/40 [00:02<00:05,	4.89it/s]				
496/499	0.206G	0.02179	0.008652	0.01705	2	320:
35% ###5	14/40 [00:02<00:05,	5.02it/s]				
496/499	0.206G	0.02138	0.0084	0.0169	1	320:
35% ###5	14/40 [00:02<00:05,	5.02it/s]				
496/499	0.206G	0.02138	0.0084	0.0169	1	320:
38% ###7	15/40 [00:02<00:04,	5.11it/s]				
496/499	0.206G	0.02093	0.00848	0.01903	2	320:
38% ###7	15/40 [00:03<00:04,	5.11it/s]				
496/499	0.206G	0.02093	0.00848	0.01903	2	320:
40% ####	16/40 [00:03<00:05,	4.70it/s]				
496/499	0.206G	0.0209	0.008651	0.01926	4	320:
40% ####	16/40 [00:03<00:05,	4.70it/s]				
496/499	0.206G	0.0209	0.008651	0.01926	4	320:
42% ####2	17/40 [00:03<00:04,	4.76it/s]				
496/499	0.206G	0.02149	0.008541	0.01952	2	320:
42% ####2	17/40 [00:03<00:04,	4.76it/s]				
496/499	0.206G	0.02149	0.008541	0.01952	2	320:
45% ####5	18/40 [00:03<00:04,	4.79it/s]				

496/499	0.206G	0.02102	0.008371	0.01966	2	320:
45% #####5	18/40 [00:03<00:04,	4.79it/s]				
496/499	0.206G	0.02102	0.008371	0.01966	2	320:
48% #####7	19/40 [00:03<00:04,	4.94it/s]				
496/499	0.206G	0.02142	0.008674	0.01983	4	320:
48% #####7	19/40 [00:03<00:04,	4.94it/s]				
496/499	0.206G	0.02142	0.008674	0.01983	4	320:
50% #####	20/40 [00:03<00:03,	5.05it/s]				
496/499	0.206G	0.02143	0.008992	0.0197	4	320:
50% #####	20/40 [00:04<00:03,	5.05it/s]				
496/499	0.206G	0.02143	0.008992	0.0197	4	320:
52% #####2	21/40 [00:04<00:03,	5.25it/s]				
496/499	0.206G	0.02135	0.008874	0.01952	1	320:
52% #####2	21/40 [00:04<00:03,	5.25it/s]				
496/499	0.206G	0.02135	0.008874	0.01952	1	320:
55% #####5	22/40 [00:04<00:03,	5.41it/s]				
496/499	0.206G	0.02085	0.008898	0.01956	4	320:
55% #####5	22/40 [00:04<00:03,	5.41it/s]				
496/499	0.206G	0.02085	0.008898	0.01956	4	320:
57% #####7	23/40 [00:04<00:03,	5.38it/s]				
496/499	0.206G	0.02186	0.008951	0.02051	3	320:
57% #####7	23/40 [00:04<00:03,	5.38it/s]				
496/499	0.206G	0.02186	0.008951	0.02051	3	320:
60% #####	24/40 [00:04<00:02,	5.47it/s]				
496/499	0.206G	0.0216	0.009008	0.02033	2	320:
60% #####	24/40 [00:04<00:02,	5.47it/s]				
496/499	0.206G	0.0216	0.009008	0.02033	2	320:
62% #####2	25/40 [00:04<00:02,	5.58it/s]				
496/499	0.206G	0.02141	0.009172	0.02016	4	320:
62% #####2	25/40 [00:05<00:02,	5.58it/s]				
496/499	0.206G	0.02141	0.009172	0.02016	4	320:
65% #####5	26/40 [00:05<00:02,	5.50it/s]				
496/499	0.206G	0.02103	0.009055	0.02011	2	320:
65% #####5	26/40 [00:05<00:02,	5.50it/s]				
496/499	0.206G	0.02103	0.009055	0.02011	2	320:
68% #####7	27/40 [00:05<00:02,	5.60it/s]				
496/499	0.206G	0.02072	0.009308	0.01984	4	320:
68% #####7	27/40 [00:05<00:02,	5.60it/s]				
496/499	0.206G	0.02072	0.009308	0.01984	4	320:
70% #####	28/40 [00:05<00:02,	5.66it/s]				
496/499	0.206G	0.02035	0.009166	0.01958	2	320:
70% #####	28/40 [00:05<00:02,	5.66it/s]				
496/499	0.206G	0.02035	0.009166	0.01958	2	320:
72% #####2	29/40 [00:05<00:01,	5.71it/s]				
496/499	0.206G	0.02156	0.009117	0.01968	3	320:
72% #####2	29/40 [00:05<00:01,	5.71it/s]				
496/499	0.206G	0.02156	0.009117	0.01968	3	320:
75% #####5	30/40 [00:05<00:01,	5.57it/s]				

496/499	0.206G	0.02159	0.009235	0.01983	4	320:
75% #####5	30/40 [00:05<00:01,	5.57it/s]				
496/499	0.206G	0.02159	0.009235	0.01983	4	320:
78% #####7	31/40 [00:05<00:01,	5.50it/s]				
496/499	0.206G	0.02216	0.00917	0.01979	2	320:
78% #####7	31/40 [00:06<00:01,	5.50it/s]				
496/499	0.206G	0.02216	0.00917	0.01979	2	320:
80% #####	32/40 [00:06<00:01,	5.59it/s]				
496/499	0.206G	0.02232	0.009113	0.01969	2	320:
80% #####	32/40 [00:06<00:01,	5.59it/s]				
496/499	0.206G	0.02232	0.009113	0.01969	2	320:
82% #####2	33/40 [00:06<00:01,	5.34it/s]				
496/499	0.206G	0.02191	0.008941	0.01948	1	320:
82% #####2	33/40 [00:06<00:01,	5.34it/s]				
496/499	0.206G	0.02191	0.008941	0.01948	1	320:
85% #####5	34/40 [00:06<00:01,	5.34it/s]				
496/499	0.206G	0.02168	0.008864	0.01943	2	320:
85% #####5	34/40 [00:06<00:01,	5.34it/s]				
496/499	0.206G	0.02168	0.008864	0.01943	2	320:
88% #####7	35/40 [00:06<00:00,	5.16it/s]				
496/499	0.206G	0.02128	0.008787	0.01926	2	320:
88% #####7	35/40 [00:06<00:00,	5.16it/s]				
496/499	0.206G	0.02128	0.008787	0.01926	2	320:
90% #####	36/40 [00:06<00:00,	5.52it/s]				
496/499	0.206G	0.0214	0.008686	0.01928	1	320:
90% #####	36/40 [00:07<00:00,	5.52it/s]				
496/499	0.206G	0.0214	0.008686	0.01928	1	320:
92% #####2	37/40 [00:07<00:00,	5.46it/s]				
496/499	0.206G	0.02156	0.008728	0.01946	3	320:
92% #####2	37/40 [00:07<00:00,	5.46it/s]				
496/499	0.206G	0.02156	0.008728	0.01946	3	320:
95% #####5	38/40 [00:07<00:00,	5.27it/s]				
496/499	0.206G	0.02129	0.008576	0.01928	1	320:
95% #####5	38/40 [00:07<00:00,	5.27it/s]				
496/499	0.206G	0.02129	0.008576	0.01928	1	320:
98% #####7	39/40 [00:07<00:00,	5.42it/s]				
496/499	0.206G	0.02123	0.008752	0.01943	4	320:
98% #####7	39/40 [00:07<00:00,	5.42it/s]				
496/499	0.206G	0.02123	0.008752	0.01943	4	320:
100% #####	40/40 [00:07<00:00,	5.54it/s]				
496/499	0.206G	0.02123	0.008752	0.01943	4	320:
100% #####	40/40 [00:07<00:00,	5.26it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20 [00:00<00:01, 16.00it/s]				
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 17.28it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 17.72it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	45% ####5	9/20 [00:00<00:00, 18.43it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	55% #####5	11/20 [00:00<00:00, 18.38it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	65% #####5	13/20 [00:00<00:00, 17.47it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	75% #####5	15/20 [00:00<00:00, 17.71it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	85% #####5	17/20 [00:00<00:00, 17.88it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	95% #####5	19/20 [00:01<00:00, 18.00it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.99it/s]					
	all	40	40	0.982	0.973	0.992	
							0.811

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
497/499	0.206G	0.03782	0.006603	0.02479	2	320:	
0%		0/40 [00:00<?, ?it/s]					
497/499	0.206G	0.03782	0.006603	0.02479	2	320:	
2% 2		1/40 [00:00<00:06, 5.82it/s]					
497/499	0.206G	0.02259	0.004931	0.02222	1	320:	
2% 2		1/40 [00:00<00:06, 5.82it/s]					
497/499	0.206G	0.02259	0.004931	0.02222	1	320:	
5% 5		2/40 [00:00<00:06, 6.10it/s]					
497/499	0.206G	0.01851	0.004743	0.02423	1	320:	
5% 5		2/40 [00:00<00:06, 6.10it/s]					
497/499	0.206G	0.01851	0.004743	0.02423	1	320:	
8% 7		3/40 [00:00<00:06, 5.97it/s]					
497/499	0.206G	0.01942	0.006174	0.02276	2	320:	
8% 7		3/40 [00:00<00:06, 5.97it/s]					
497/499	0.206G	0.01942	0.006174	0.02276	2	320:	
10% #		4/40 [00:00<00:06, 5.91it/s]					
497/499	0.206G	0.02449	0.006284	0.02169	2	320:	
10% #		4/40 [00:00<00:06, 5.91it/s]					
497/499	0.206G	0.02449	0.006284	0.02169	2	320:	
12% #2		5/40 [00:00<00:06, 5.61it/s]					
497/499	0.206G	0.02702	0.006661	0.02061	2	320:	
12% #2		5/40 [00:01<00:06, 5.61it/s]					
497/499	0.206G	0.02702	0.006661	0.02061	2	320:	
15% #5		6/40 [00:01<00:05, 5.73it/s]					
497/499	0.206G	0.03151	0.006473	0.02004	2	320:	

15% #5	6/40 [00:01<00:05,	5.73it/s]				
497/499	0.206G	0.03151	0.006473	0.02004	2	320:
18% #7	7/40 [00:01<00:05,	5.59it/s]				
497/499	0.206G	0.02872	0.006893	0.01986	4	320:
18% #7	7/40 [00:01<00:05,	5.59it/s]				
497/499	0.206G	0.02872	0.006893	0.01986	4	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
497/499	0.206G	0.02727	0.007445	0.01991	4	320:
20% ##	8/40 [00:01<00:05,	5.50it/s]				
497/499	0.206G	0.02727	0.007445	0.01991	4	320:
22% ##2	9/40 [00:01<00:05,	5.30it/s]				
497/499	0.206G	0.02642	0.007492	0.0196	2	320:
22% ##2	9/40 [00:01<00:05,	5.30it/s]				
497/499	0.206G	0.02642	0.007492	0.0196	2	320:
25% ##5	10/40 [00:01<00:05,	5.45it/s]				
497/499	0.206G	0.02504	0.007127	0.01903	1	320:
25% ##5	10/40 [00:01<00:05,	5.45it/s]				
497/499	0.206G	0.02504	0.007127	0.01903	1	320:
28% ##7	11/40 [00:01<00:05,	5.54it/s]				
497/499	0.206G	0.02506	0.007387	0.01938	4	320:
28% ##7	11/40 [00:02<00:05,	5.54it/s]				
497/499	0.206G	0.02506	0.007387	0.01938	4	320:
30% ###	12/40 [00:02<00:05,	5.58it/s]				
497/499	0.206G	0.02393	0.007311	0.01918	1	320:
30% ###	12/40 [00:02<00:05,	5.58it/s]				
497/499	0.206G	0.02393	0.007311	0.01918	1	320:
32% ###2	13/40 [00:02<00:04,	5.54it/s]				
497/499	0.206G	0.02676	0.00719	0.01906	2	320:
32% ###2	13/40 [00:02<00:04,	5.54it/s]				
497/499	0.206G	0.02676	0.00719	0.01906	2	320:
35% ###5	14/40 [00:02<00:04,	5.47it/s]				
497/499	0.206G	0.02565	0.006913	0.01888	1	320:
35% ###5	14/40 [00:02<00:04,	5.47it/s]				
497/499	0.206G	0.02565	0.006913	0.01888	1	320:
38% ###7	15/40 [00:02<00:04,	5.57it/s]				
497/499	0.206G	0.02728	0.007141	0.01883	3	320:
38% ###7	15/40 [00:02<00:04,	5.57it/s]				
497/499	0.206G	0.02728	0.007141	0.01883	3	320:
40% ####	16/40 [00:02<00:04,	5.50it/s]				
497/499	0.206G	0.02661	0.007779	0.0186	4	320:
40% ####	16/40 [00:03<00:04,	5.50it/s]				
497/499	0.206G	0.02661	0.007779	0.0186	4	320:
42% ####2	17/40 [00:03<00:04,	5.29it/s]				
497/499	0.206G	0.02588	0.007629	0.01841	1	320:
42% ####2	17/40 [00:03<00:04,	5.29it/s]				
497/499	0.206G	0.02588	0.007629	0.01841	1	320:
45% ####5	18/40 [00:03<00:04,	5.30it/s]				
497/499	0.206G	0.02699	0.007825	0.01829	2	320:

45% #####5	18/40 [00:03<00:04,	5.30it/s]				
497/499	0.206G	0.02699	0.007825	0.01829	2	320:
48% #####7	19/40 [00:03<00:03,	5.30it/s]				
497/499	0.206G	0.02613	0.007801	0.01801	2	320:
48% #####7	19/40 [00:03<00:03,	5.30it/s]				
497/499	0.206G	0.02613	0.007801	0.01801	2	320:
50% #####	20/40 [00:03<00:03,	5.57it/s]				
497/499	0.206G	0.02592	0.007824	0.01897	2	320:
50% #####	20/40 [00:03<00:03,	5.57it/s]				
497/499	0.206G	0.02592	0.007824	0.01897	2	320:
52% #####2	21/40 [00:03<00:03,	5.50it/s]				
497/499	0.206G	0.02652	0.008078	0.01913	4	320:
52% #####2	21/40 [00:03<00:03,	5.50it/s]				
497/499	0.206G	0.02652	0.008078	0.01913	4	320:
55% #####5	22/40 [00:03<00:03,	5.36it/s]				
497/499	0.206G	0.02613	0.008441	0.01904	4	320:
55% #####5	22/40 [00:04<00:03,	5.36it/s]				
497/499	0.206G	0.02613	0.008441	0.01904	4	320:
57% #####7	23/40 [00:04<00:03,	5.44it/s]				
497/499	0.206G	0.02633	0.008347	0.01994	2	320:
57% #####7	23/40 [00:04<00:03,	5.44it/s]				
497/499	0.206G	0.02633	0.008347	0.01994	2	320:
60% #####	24/40 [00:04<00:02,	5.41it/s]				
497/499	0.206G	0.0267	0.008442	0.02009	4	320:
60% #####	24/40 [00:04<00:02,	5.41it/s]				
497/499	0.206G	0.0267	0.008442	0.02009	4	320:
62% #####2	25/40 [00:04<00:02,	5.40it/s]				
497/499	0.206G	0.02682	0.00844	0.0203	2	320:
62% #####2	25/40 [00:04<00:02,	5.40it/s]				
497/499	0.206G	0.02682	0.00844	0.0203	2	320:
65% #####5	26/40 [00:04<00:02,	5.35it/s]				
497/499	0.206G	0.02707	0.008596	0.02046	3	320:
65% #####5	26/40 [00:04<00:02,	5.35it/s]				
497/499	0.206G	0.02707	0.008596	0.02046	3	320:
68% #####7	27/40 [00:04<00:02,	5.35it/s]				
497/499	0.206G	0.02642	0.008397	0.02022	1	320:
68% #####7	27/40 [00:05<00:02,	5.35it/s]				
497/499	0.206G	0.02642	0.008397	0.02022	1	320:
70% #####	28/40 [00:05<00:02,	5.19it/s]				
497/499	0.206G	0.02624	0.008781	0.02015	4	320:
70% #####	28/40 [00:05<00:02,	5.19it/s]				
497/499	0.206G	0.02624	0.008781	0.02015	4	320:
72% #####2	29/40 [00:05<00:02,	5.11it/s]				
497/499	0.206G	0.02638	0.008718	0.01993	2	320:
72% #####2	29/40 [00:05<00:02,	5.11it/s]				
497/499	0.206G	0.02638	0.008718	0.01993	2	320:
75% #####5	30/40 [00:05<00:01,	5.30it/s]				
497/499	0.206G	0.02675	0.008713	0.01971	2	320:

75% #####5		30/40	[00:05<00:01,	5.30it/s]			
497/499		0.206G	0.02675	0.008713	0.01971	2	320:
78% #####7		31/40	[00:05<00:01,	5.43it/s]			
497/499		0.206G	0.02648	0.008838	0.0197	4	320:
78% #####7		31/40	[00:05<00:01,	5.43it/s]			
497/499		0.206G	0.02648	0.008838	0.0197	4	320:
80% #####		32/40	[00:05<00:01,	5.40it/s]			
497/499		0.206G	0.02599	0.008669	0.01957	1	320:
80% #####		32/40	[00:06<00:01,	5.40it/s]			
497/499		0.206G	0.02599	0.008669	0.01957	1	320:
82% #####2		33/40	[00:06<00:01,	5.52it/s]			
497/499		0.206G	0.02624	0.008813	0.02006	4	320:
82% #####2		33/40	[00:06<00:01,	5.52it/s]			
497/499		0.206G	0.02624	0.008813	0.02006	4	320:
85% #####5		34/40	[00:06<00:01,	5.32it/s]			
497/499		0.206G	0.02616	0.008736	0.01991	2	320:
85% #####5		34/40	[00:06<00:01,	5.32it/s]			
497/499		0.206G	0.02616	0.008736	0.01991	2	320:
88% #####7		35/40	[00:06<00:00,	5.19it/s]			
497/499		0.206G	0.02645	0.008686	0.01972	2	320:
88% #####7		35/40	[00:06<00:00,	5.19it/s]			
497/499		0.206G	0.02645	0.008686	0.01972	2	320:
90% #####		36/40	[00:06<00:00,	5.36it/s]			
497/499		0.206G	0.02649	0.008634	0.01955	2	320:
90% #####		36/40	[00:06<00:00,	5.36it/s]			
497/499		0.206G	0.02649	0.008634	0.01955	2	320:
92% #####2		37/40	[00:06<00:00,	5.46it/s]			
497/499		0.206G	0.02672	0.008723	0.01946	4	320:
92% #####2		37/40	[00:06<00:00,	5.46it/s]			
497/499		0.206G	0.02672	0.008723	0.01946	4	320:
95% #####5		38/40	[00:06<00:00,	5.57it/s]			
497/499		0.206G	0.02628	0.008663	0.01934	2	320:
95% #####5		38/40	[00:07<00:00,	5.57it/s]			
497/499		0.206G	0.02628	0.008663	0.01934	2	320:
98% #####7		39/40	[00:07<00:00,	5.64it/s]			
497/499		0.206G	0.02592	0.008549	0.01918	1	320:
98% #####7		39/40	[00:07<00:00,	5.64it/s]			
497/499		0.206G	0.02592	0.008549	0.01918	1	320:
100% #####		40/40	[00:07<00:00,	5.68it/s]			
497/499		0.206G	0.02592	0.008549	0.01918	1	320:
100% #####		40/40	[00:07<00:00,	5.47it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95: 0%		0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 10% #		2/20	[00:00<00:01, 15.99it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95: 20% ##		4/20	[00:00<00:01, 14.90it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	14.88it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	14.28it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	14.85it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	14.63it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	14.98it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	15.28it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	14.93it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	14.71it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	14.83it/s]		
	all	40	40	0.97	0.935	0.995

0.804

Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%	0/40	[00:00<?, ?it/s]				
498/499	0.206G	0.02039	0.01552	0.02948	4	320:
0%	0/40	[00:00<?, ?it/s]				
498/499	0.206G	0.02039	0.01552	0.02948	4	320:
2% 2	1/40	[00:00<00:07,	5.03it/s]			
498/499	0.206G	0.0151	0.01035	0.02129	1	320:
2% 2	1/40	[00:00<00:07,	5.03it/s]			
498/499	0.206G	0.0151	0.01035	0.02129	1	320:
5% 5	2/40	[00:00<00:07,	5.16it/s]			
498/499	0.206G	0.01455	0.008955	0.01938	2	320:
5% 5	2/40	[00:00<00:07,	5.16it/s]			
498/499	0.206G	0.01455	0.008955	0.01938	2	320:
8% 7	3/40	[00:00<00:07,	5.05it/s]			
498/499	0.206G	0.01628	0.01111	0.018	4	320:
8% 7	3/40	[00:00<00:07,	5.05it/s]			
498/499	0.206G	0.01628	0.01111	0.018	4	320:
10% #	4/40	[00:00<00:07,	4.97it/s]			
498/499	0.206G	0.01683	0.01138	0.02009	4	320:
10% #	4/40	[00:01<00:07,	4.97it/s]			
498/499	0.206G	0.01683	0.01138	0.02009	4	320:
12% #2	5/40	[00:01<00:07,	4.95it/s]			
498/499	0.206G	0.01805	0.01173	0.01995	4	320:
12% #2	5/40	[00:01<00:07,	4.95it/s]			
498/499	0.206G	0.01805	0.01173	0.01995	4	320:
15% #5	6/40	[00:01<00:06,	4.94it/s]			

498/499	0.206G	0.01663	0.01103	0.01931	2	320:
15% #5	6/40 [00:01<00:06,	4.94it/s]				
498/499	0.206G	0.01663	0.01103	0.01931	2	320:
18% #7	7/40 [00:01<00:06,	4.91it/s]				
498/499	0.206G	0.02125	0.01061	0.01906	3	320:
18% #7	7/40 [00:01<00:06,	4.91it/s]				
498/499	0.206G	0.02125	0.01061	0.01906	3	320:
20% ##	8/40 [00:01<00:06,	5.04it/s]				
498/499	0.206G	0.02018	0.01019	0.01863	2	320:
20% ##	8/40 [00:01<00:06,	5.04it/s]				
498/499	0.206G	0.02018	0.01019	0.01863	2	320:
22% ##2	9/40 [00:01<00:05,	5.24it/s]				
498/499	0.206G	0.02068	0.01078	0.01846	4	320:
22% ##2	9/40 [00:01<00:05,	5.24it/s]				
498/499	0.206G	0.02068	0.01078	0.01846	4	320:
25% ##5	10/40 [00:01<00:05,	5.27it/s]				
498/499	0.206G	0.01943	0.01011	0.0183	1	320:
25% ##5	10/40 [00:02<00:05,	5.27it/s]				
498/499	0.206G	0.01943	0.01011	0.0183	1	320:
28% ##7	11/40 [00:02<00:05,	5.57it/s]				
498/499	0.206G	0.02076	0.00977	0.01859	3	320:
28% ##7	11/40 [00:02<00:05,	5.57it/s]				
498/499	0.206G	0.02076	0.00977	0.01859	3	320:
30% ###	12/40 [00:02<00:04,	5.65it/s]				
498/499	0.206G	0.02029	0.0097	0.01861	2	320:
30% ###	12/40 [00:02<00:04,	5.65it/s]				
498/499	0.206G	0.02029	0.0097	0.01861	2	320:
32% ###2	13/40 [00:02<00:04,	5.68it/s]				
498/499	0.206G	0.02302	0.009456	0.01839	2	320:
32% ###2	13/40 [00:02<00:04,	5.68it/s]				
498/499	0.206G	0.02302	0.009456	0.01839	2	320:
35% ###5	14/40 [00:02<00:04,	5.43it/s]				
498/499	0.206G	0.0231	0.009335	0.01852	2	320:
35% ###5	14/40 [00:02<00:04,	5.43it/s]				
498/499	0.206G	0.0231	0.009335	0.01852	2	320:
38% ###7	15/40 [00:02<00:04,	5.13it/s]				
498/499	0.206G	0.02378	0.00962	0.01865	4	320:
38% ###7	15/40 [00:03<00:04,	5.13it/s]				
498/499	0.206G	0.02378	0.00962	0.01865	4	320:
40% ####	16/40 [00:03<00:04,	5.19it/s]				
498/499	0.206G	0.02334	0.009539	0.02017	2	320:
40% ####	16/40 [00:03<00:04,	5.19it/s]				
498/499	0.206G	0.02334	0.009539	0.02017	2	320:
42% ####2	17/40 [00:03<00:04,	5.11it/s]				
498/499	0.206G	0.02243	0.009153	0.01993	1	320:
42% ####2	17/40 [00:03<00:04,	5.11it/s]				
498/499	0.206G	0.02243	0.009153	0.01993	1	320:
45% ####5	18/40 [00:03<00:04,	5.41it/s]				

498/499	0.206G	0.02399	0.009279	0.02059	2	320:
45% #####5	18/40 [00:03<00:04,	5.41it/s]				
498/499	0.206G	0.02399	0.009279	0.02059	2	320:
48% #####7	19/40 [00:03<00:03,	5.40it/s]				
498/499	0.206G	0.02456	0.009791	0.0211	4	320:
48% #####7	19/40 [00:03<00:03,	5.40it/s]				
498/499	0.206G	0.02456	0.009791	0.0211	4	320:
50% #####	20/40 [00:03<00:03,	5.52it/s]				
498/499	0.206G	0.02418	0.009972	0.02097	4	320:
50% #####	20/40 [00:03<00:03,	5.52it/s]				
498/499	0.206G	0.02418	0.009972	0.02097	4	320:
52% #####2	21/40 [00:03<00:03,	5.58it/s]				
498/499	0.206G	0.02524	0.01014	0.02091	4	320:
52% #####2	21/40 [00:04<00:03,	5.58it/s]				
498/499	0.206G	0.02524	0.01014	0.02091	4	320:
55% #####5	22/40 [00:04<00:03,	5.50it/s]				
498/499	0.206G	0.02459	0.01007	0.02053	2	320:
55% #####5	22/40 [00:04<00:03,	5.50it/s]				
498/499	0.206G	0.02459	0.01007	0.02053	2	320:
57% #####7	23/40 [00:04<00:03,	5.59it/s]				
498/499	0.206G	0.02404	0.009818	0.0202	1	320:
57% #####7	23/40 [00:04<00:03,	5.59it/s]				
498/499	0.206G	0.02404	0.009818	0.0202	1	320:
60% #####	24/40 [00:04<00:02,	5.78it/s]				
498/499	0.206G	0.02399	0.01005	0.02021	4	320:
60% #####	24/40 [00:04<00:02,	5.78it/s]				
498/499	0.206G	0.02399	0.01005	0.02021	4	320:
62% #####2	25/40 [00:04<00:02,	5.79it/s]				
498/499	0.206G	0.02413	0.01022	0.02048	4	320:
62% #####2	25/40 [00:04<00:02,	5.79it/s]				
498/499	0.206G	0.02413	0.01022	0.02048	4	320:
65% #####5	26/40 [00:04<00:02,	5.65it/s]				
498/499	0.206G	0.02507	0.01031	0.02081	2	320:
65% #####5	26/40 [00:05<00:02,	5.65it/s]				
498/499	0.206G	0.02507	0.01031	0.02081	2	320:
68% #####7	27/40 [00:05<00:02,	5.54it/s]				
498/499	0.206G	0.02604	0.01014	0.02068	2	320:
68% #####7	27/40 [00:05<00:02,	5.54it/s]				
498/499	0.206G	0.02604	0.01014	0.02068	2	320:
70% #####	28/40 [00:05<00:02,	5.48it/s]				
498/499	0.206G	0.02578	0.01008	0.02099	3	320:
70% #####	28/40 [00:05<00:02,	5.48it/s]				
498/499	0.206G	0.02578	0.01008	0.02099	3	320:
72% #####2	29/40 [00:05<00:02,	5.30it/s]				
498/499	0.206G	0.02527	0.009929	0.02078	1	320:
72% #####2	29/40 [00:05<00:02,	5.30it/s]				
498/499	0.206G	0.02527	0.009929	0.02078	1	320:
75% #####5	30/40 [00:05<00:01,	5.43it/s]				

498/499	0.206G	0.02542	0.009907	0.0207	2	320:
75% #####5	30/40 [00:05<00:01,	5.43it/s]				
498/499	0.206G	0.02542	0.009907	0.0207	2	320:
78% #####7	31/40 [00:05<00:01,	5.26it/s]				
498/499	0.206G	0.02626	0.00976	0.02055	2	320:
78% #####7	31/40 [00:05<00:01,	5.26it/s]				
498/499	0.206G	0.02626	0.00976	0.02055	2	320:
80% #####	32/40 [00:05<00:01,	5.28it/s]				
498/499	0.206G	0.02638	0.009636	0.02068	2	320:
80% #####	32/40 [00:06<00:01,	5.28it/s]				
498/499	0.206G	0.02638	0.009636	0.02068	2	320:
82% #####2	33/40 [00:06<00:01,	5.29it/s]				
498/499	0.206G	0.0267	0.00954	0.02063	2	320:
82% #####2	33/40 [00:06<00:01,	5.29it/s]				
498/499	0.206G	0.0267	0.00954	0.02063	2	320:
85% #####5	34/40 [00:06<00:01,	5.30it/s]				
498/499	0.206G	0.02688	0.009714	0.02097	4	320:
85% #####5	34/40 [00:06<00:01,	5.30it/s]				
498/499	0.206G	0.02688	0.009714	0.02097	4	320:
88% #####7	35/40 [00:06<00:00,	5.30it/s]				
498/499	0.206G	0.02716	0.00997	0.02095	4	320:
88% #####7	35/40 [00:06<00:00,	5.30it/s]				
498/499	0.206G	0.02716	0.00997	0.02095	4	320:
90% #####	36/40 [00:06<00:00,	5.43it/s]				
498/499	0.206G	0.02657	0.009778	0.02083	1	320:
90% #####	36/40 [00:06<00:00,	5.43it/s]				
498/499	0.206G	0.02657	0.009778	0.02083	1	320:
92% #####2	37/40 [00:06<00:00,	5.54it/s]				
498/499	0.206G	0.02614	0.009591	0.02056	1	320:
92% #####2	37/40 [00:07<00:00,	5.54it/s]				
498/499	0.206G	0.02614	0.009591	0.02056	1	320:
95% #####5	38/40 [00:07<00:00,	5.41it/s]				
498/499	0.206G	0.02569	0.009464	0.02039	1	320:
95% #####5	38/40 [00:07<00:00,	5.41it/s]				
498/499	0.206G	0.02569	0.009464	0.02039	1	320:
98% #####7	39/40 [00:07<00:00,	5.58it/s]				
498/499	0.206G	0.02555	0.009554	0.02062	4	320:
98% #####7	39/40 [00:07<00:00,	5.58it/s]				
498/499	0.206G	0.02555	0.009554	0.02062	4	320:
100% #####	40/40 [00:07<00:00,	5.65it/s]				
498/499	0.206G	0.02555	0.009554	0.02062	4	320:
100% #####	40/40 [00:07<00:00,	5.38it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20 [00:00<?, ?it/s]				
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #	2/20 [00:00<00:00,	18.29it/s]			
	Class	Images	Instances	P	R	mAP50

mAP50-95:	20% ##	4/20 [00:00<00:00, 18.20it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	30% ###	6/20 [00:00<00:00, 18.24it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	40% ####	8/20 [00:00<00:00, 18.26it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	50% #####	10/20 [00:00<00:00, 18.27it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	60% #####	12/20 [00:00<00:00, 17.24it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	70% #####	14/20 [00:00<00:00, 16.92it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	80% #####	16/20 [00:00<00:00, 17.33it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	90% #####	18/20 [00:01<00:00, 17.61it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 16.41it/s]					
	Class	Images	Instances	P	R	mAP50	
mAP50-95:	100% #####	20/20 [00:01<00:00, 17.26it/s]					
	all	40	40	0.97	0.935	0.995	
0.804							

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances	Size
0%		0/40 [00:00<?, ?it/s]					
499/499	0.206G	0.02556	0.009209	0.01567	2	320:	
0%		0/40 [00:00<?, ?it/s]					
499/499	0.206G	0.02556	0.009209	0.01567	2	320:	
2% 2		1/40 [00:00<00:06, 6.40it/s]					
499/499	0.206G	0.02893	0.01158	0.0183	4	320:	
2% 2		1/40 [00:00<00:06, 6.40it/s]					
499/499	0.206G	0.02893	0.01158	0.0183	4	320:	
5% 5		2/40 [00:00<00:06, 5.87it/s]					
499/499	0.206G	0.03137	0.01144	0.02529	3	320:	
5% 5		2/40 [00:00<00:06, 5.87it/s]					
499/499	0.206G	0.03137	0.01144	0.02529	3	320:	
8% 7		3/40 [00:00<00:06, 5.92it/s]					
499/499	0.206G	0.02752	0.01015	0.02401	2	320:	
8% 7		3/40 [00:00<00:06, 5.92it/s]					
499/499	0.206G	0.02752	0.01015	0.02401	2	320:	
10% #		4/40 [00:00<00:06, 5.67it/s]					
499/499	0.206G	0.02294	0.008709	0.02215	1	320:	
10% #		4/40 [00:00<00:06, 5.67it/s]					
499/499	0.206G	0.02294	0.008709	0.02215	1	320:	
12% #2		5/40 [00:00<00:06, 5.71it/s]					
499/499	0.206G	0.0239	0.009716	0.02165	4	320:	
12% #2		5/40 [00:01<00:06, 5.71it/s]					
499/499	0.206G	0.0239	0.009716	0.02165	4	320:	

15% #5	6/40 [00:01<00:05,	5.75it/s]				
499/499	0.206G	0.02192	0.00884	0.02063	1	320:
15% #5	6/40 [00:01<00:05,	5.75it/s]				
499/499	0.206G	0.02192	0.00884	0.02063	1	320:
18% #7	7/40 [00:01<00:05,	5.77it/s]				
499/499	0.206G	0.02108	0.00822	0.02005	1	320:
18% #7	7/40 [00:01<00:05,	5.77it/s]				
499/499	0.206G	0.02108	0.00822	0.02005	1	320:
20% ##	8/40 [00:01<00:05,	5.77it/s]				
499/499	0.206G	0.01966	0.00795	0.01967	2	320:
20% ##	8/40 [00:01<00:05,	5.77it/s]				
499/499	0.206G	0.01966	0.00795	0.01967	2	320:
22% ##2	9/40 [00:01<00:05,	5.95it/s]				
499/499	0.206G	0.01769	0.007306	0.0177	0	320:
22% ##2	9/40 [00:01<00:05,	5.95it/s]				
499/499	0.206G	0.01769	0.007306	0.0177	0	320:
25% ##5	10/40 [00:01<00:04,	6.27it/s]				
499/499	0.206G	0.01792	0.00797	0.01755	4	320:
25% ##5	10/40 [00:01<00:04,	6.27it/s]				
499/499	0.206G	0.01792	0.00797	0.01755	4	320:
28% ##7	11/40 [00:01<00:04,	5.94it/s]				
499/499	0.206G	0.01821	0.00866	0.01774	4	320:
28% ##7	11/40 [00:02<00:04,	5.94it/s]				
499/499	0.206G	0.01821	0.00866	0.01774	4	320:
30% ###	12/40 [00:02<00:05,	5.28it/s]				
499/499	0.206G	0.01752	0.008263	0.01742	1	320:
30% ###	12/40 [00:02<00:05,	5.28it/s]				
499/499	0.206G	0.01752	0.008263	0.01742	1	320:
32% ###2	13/40 [00:02<00:04,	5.43it/s]				
499/499	0.206G	0.01719	0.008073	0.01723	2	320:
32% ###2	13/40 [00:02<00:04,	5.43it/s]				
499/499	0.206G	0.01719	0.008073	0.01723	2	320:
35% ###5	14/40 [00:02<00:04,	5.55it/s]				
499/499	0.206G	0.01673	0.007793	0.01706	1	320:
35% ###5	14/40 [00:02<00:04,	5.55it/s]				
499/499	0.206G	0.01673	0.007793	0.01706	1	320:
38% ###7	15/40 [00:02<00:04,	5.47it/s]				
499/499	0.206G	0.01732	0.007514	0.01694	1	320:
38% ###7	15/40 [00:02<00:04,	5.47it/s]				
499/499	0.206G	0.01732	0.007514	0.01694	1	320:
40% ####	16/40 [00:02<00:04,	5.29it/s]				
499/499	0.206G	0.0172	0.007461	0.0168	1	320:
40% ####	16/40 [00:03<00:04,	5.29it/s]				
499/499	0.206G	0.0172	0.007461	0.0168	1	320:
42% ####2	17/40 [00:03<00:04,	5.30it/s]				
499/499	0.206G	0.01731	0.007802	0.01721	4	320:
42% ####2	17/40 [00:03<00:04,	5.30it/s]				
499/499	0.206G	0.01731	0.007802	0.01721	4	320:

45% #####5	18/40 [00:03<00:04, 5.31it/s]					
499/499	0.206G 0.01725 0.008092	0.01723	4	320:		
45% #####5	18/40 [00:03<00:04, 5.31it/s]					
499/499	0.206G 0.01725 0.008092	0.01723	4	320:		
48% #####7	19/40 [00:03<00:04, 5.19it/s]					
499/499	0.206G 0.01797 0.008724	0.01728	4	320:		
48% #####7	19/40 [00:03<00:04, 5.19it/s]					
499/499	0.206G 0.01797 0.008724	0.01728	4	320:		
50% #####	20/40 [00:03<00:03, 5.13it/s]					
499/499	0.206G 0.01749 0.008457	0.01707	1	320:		
50% #####	20/40 [00:03<00:03, 5.13it/s]					
499/499	0.206G 0.01749 0.008457	0.01707	1	320:		
52% #####2	21/40 [00:03<00:03, 5.32it/s]					
499/499	0.206G 0.01733 0.008545	0.01697	2	320:		
52% #####2	21/40 [00:03<00:03, 5.32it/s]					
499/499	0.206G 0.01733 0.008545	0.01697	2	320:		
55% #####5	22/40 [00:03<00:03, 5.60it/s]					
499/499	0.206G 0.01746 0.008881	0.017	4	320:		
55% #####5	22/40 [00:04<00:03, 5.60it/s]					
499/499	0.206G 0.01746 0.008881	0.017	4	320:		
57% #####7	23/40 [00:04<00:03, 5.32it/s]					
499/499	0.206G 0.01707 0.008747	0.017	2	320:		
57% #####7	23/40 [00:04<00:03, 5.32it/s]					
499/499	0.206G 0.01707 0.008747	0.017	2	320:		
60% #####	24/40 [00:04<00:02, 5.46it/s]					
499/499	0.206G 0.01734 0.008857	0.01683	2	320:		
60% #####	24/40 [00:04<00:02, 5.46it/s]					
499/499	0.206G 0.01734 0.008857	0.01683	2	320:		
62% #####2	25/40 [00:04<00:02, 5.40it/s]					
499/499	0.206G 0.01697 0.008636	0.01672	1	320:		
62% #####2	25/40 [00:04<00:02, 5.40it/s]					
499/499	0.206G 0.01697 0.008636	0.01672	1	320:		
65% #####5	26/40 [00:04<00:02, 5.24it/s]					
499/499	0.206G 0.01749 0.008598	0.01676	2	320:		
65% #####5	26/40 [00:04<00:02, 5.24it/s]					
499/499	0.206G 0.01749 0.008598	0.01676	2	320:		
68% #####7	27/40 [00:04<00:02, 5.14it/s]					
499/499	0.206G 0.01784 0.008985	0.01681	4	320:		
68% #####7	27/40 [00:05<00:02, 5.14it/s]					
499/499	0.206G 0.01784 0.008985	0.01681	4	320:		
70% #####	28/40 [00:05<00:02, 5.20it/s]					
499/499	0.206G 0.01811 0.008952	0.01701	2	320:		
70% #####	28/40 [00:05<00:02, 5.20it/s]					
499/499	0.206G 0.01811 0.008952	0.01701	2	320:		
72% #####2	29/40 [00:05<00:02, 5.24it/s]					
499/499	0.206G 0.0194 0.008954	0.01717	2	320:		
72% #####2	29/40 [00:05<00:02, 5.24it/s]					
499/499	0.206G 0.0194 0.008954	0.01717	2	320:		

75% #####5		30/40 [00:05<00:01,	5.27it/s]				
499/499		0.206G	0.01902	0.008847	0.01711	2	320:
75% #####5		30/40 [00:05<00:01,	5.27it/s]				
499/499		0.206G	0.01902	0.008847	0.01711	2	320:
78% #####7		31/40 [00:05<00:01,	5.26it/s]				
499/499		0.206G	0.0194	0.008965	0.01708	4	320:
78% #####7		31/40 [00:05<00:01,	5.26it/s]				
499/499		0.206G	0.0194	0.008965	0.01708	4	320:
80% #####		32/40 [00:05<00:01,	5.15it/s]				
499/499		0.206G	0.01968	0.009119	0.01733	4	320:
80% #####		32/40 [00:06<00:01,	5.15it/s]				
499/499		0.206G	0.01968	0.009119	0.01733	4	320:
82% #####2		33/40 [00:06<00:01,	4.79it/s]				
499/499		0.206G	0.02024	0.009237	0.01735	3	320:
82% #####2		33/40 [00:06<00:01,	4.79it/s]				
499/499		0.206G	0.02024	0.009237	0.01735	3	320:
85% #####5		34/40 [00:06<00:01,	4.89it/s]				
499/499		0.206G	0.02007	0.009137	0.01728	1	320:
85% #####5		34/40 [00:06<00:01,	4.89it/s]				
499/499		0.206G	0.02007	0.009137	0.01728	1	320:
88% #####7		35/40 [00:06<00:00,	5.01it/s]				
499/499		0.206G	0.02093	0.009107	0.01726	2	320:
88% #####7		35/40 [00:06<00:00,	5.01it/s]				
499/499		0.206G	0.02093	0.009107	0.01726	2	320:
90% #####		36/40 [00:06<00:00,	4.86it/s]				
499/499		0.206G	0.02081	0.00907	0.01742	2	320:
90% #####		36/40 [00:06<00:00,	4.86it/s]				
499/499		0.206G	0.02081	0.00907	0.01742	2	320:
92% #####2		37/40 [00:06<00:00,	4.88it/s]				
499/499		0.206G	0.02059	0.008975	0.01752	1	320:
92% #####2		37/40 [00:07<00:00,	4.88it/s]				
499/499		0.206G	0.02059	0.008975	0.01752	1	320:
95% #####5		38/40 [00:07<00:00,	4.88it/s]				
499/499		0.206G	0.02137	0.009015	0.01766	3	320:
95% #####5		38/40 [00:07<00:00,	4.88it/s]				
499/499		0.206G	0.02137	0.009015	0.01766	3	320:
98% #####7		39/40 [00:07<00:00,	4.79it/s]				
499/499		0.206G	0.02164	0.009109	0.01782	4	320:
98% #####7		39/40 [00:07<00:00,	4.79it/s]				
499/499		0.206G	0.02164	0.009109	0.01782	4	320:
100% #####		40/40 [00:07<00:00,	4.73it/s]				
499/499		0.206G	0.02164	0.009109	0.01782	4	320:
100% #####		40/40 [00:07<00:00,	5.28it/s]				

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%		0/20 [00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	10% #		2/20 [00:00<00:01, 15.26it/s]			

	Class	Images	Instances	P	R	mAP50
mAP50-95:	20% ##	4/20	[00:00<00:01,	14.91it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	30% ###	6/20	[00:00<00:00,	15.38it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	40% ####	8/20	[00:00<00:00,	16.41it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	50% #####	10/20	[00:00<00:00,	14.65it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	15.22it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:00<00:00,	15.47it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	80% #####	16/20	[00:01<00:00,	15.63it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	90% #####	18/20	[00:01<00:00,	15.55it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	16.43it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	100% #####	20/20	[00:01<00:00,	15.72it/s]		
	all	40	40	0.978	0.969	0.99

0.803

500 epochs completed in 1.260 hours.

Optimizer stripped from runs\train\exp5\weights\last.pt, 14.4MB

Optimizer stripped from runs\train\exp5\weights\best.pt, 14.4MB

Validating runs\train\exp5\weights\best.pt...

Fusing layers...

Model summary: 157 layers, 7055974 parameters, 0 gradients, 15.9 GFLOPs

	Class	Images	Instances	P	R	mAP50
mAP50-95:	0%	0/20	[00:00<?, ?it/s]			
	Class	Images	Instances	P	R	mAP50
mAP50-95:	5% 5	1/20	[00:00<00:03,	4.92it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	15% #5	3/20	[00:00<00:01,	8.60it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	25% ##5	5/20	[00:00<00:01,	11.25it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	35% ###5	7/20	[00:00<00:01,	12.86it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	45% ####5	9/20	[00:00<00:00,	14.48it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	60% #####	12/20	[00:00<00:00,	16.27it/s]		
	Class	Images	Instances	P	R	mAP50
mAP50-95:	70% #####	14/20	[00:01<00:00,	16.31it/s]		
	Class	Images	Instances	P	R	mAP50

```

mAP50-95: 80%|##### | 16/20 [00:01<00:00, 16.02it/s]
          Class      Images  Instances      P          R      mAP50
mAP50-95: 90%|##### | 18/20 [00:01<00:00, 16.62it/s]
          Class      Images  Instances      P          R      mAP50
mAP50-95: 100%|#####| 20/20 [00:01<00:00, 17.06it/s]
          Class      Images  Instances      P          R      mAP50
mAP50-95: 100%|#####| 20/20 [00:01<00:00, 14.67it/s]
          all         40         40         0.961      0.951      0.991
0.817
          awake       40         20          1      0.903      0.987
0.761
          drowsy      40         20         0.921          1      0.995
0.873
Results saved to runs\train\exp5

```

```
[59]: model = torch.hub.load('ultralytics/yolov5','custom',path = 'yolov5/runs/train/
      ↪exp5/weights/last.pt',force_reload = True)
```

```

Downloading: "https://github.com/ultralytics/yolov5/zipball/master" to
C:\Users\KIIT/.cache\torch\hub\master.zip
YOLOv5 2023-7-11 Python-3.9.13 torch-2.0.1+cu117 CUDA:0 (GeForce MX330,
2048MiB)

```

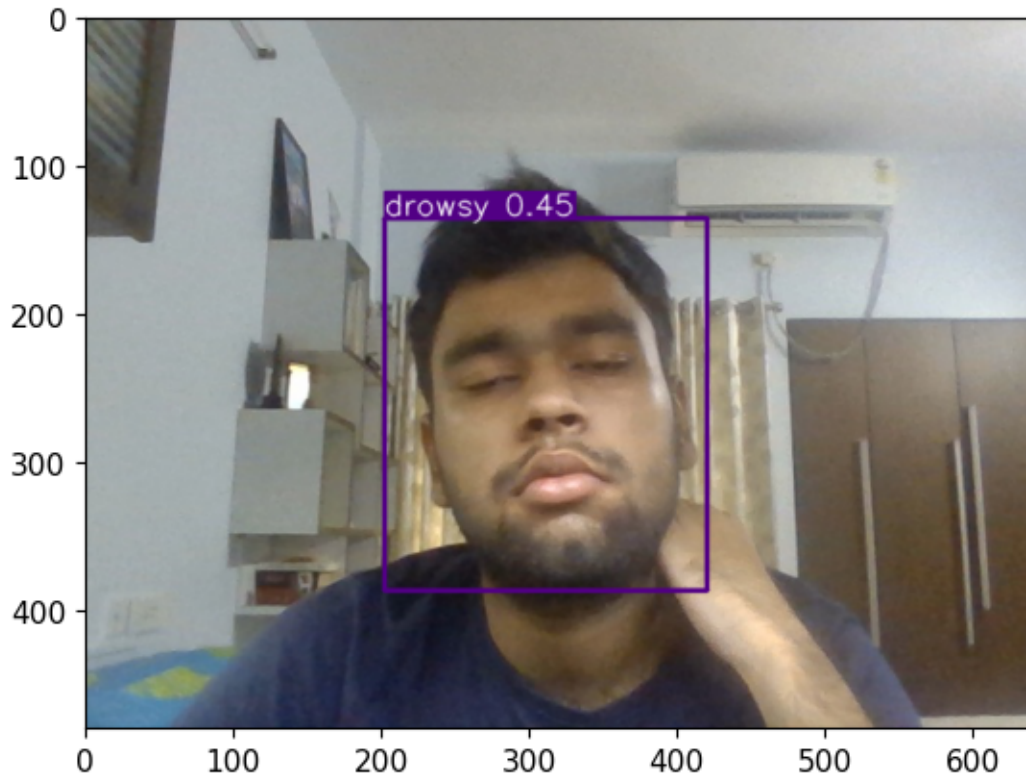
```

Fusing layers...
Model summary: 157 layers, 7055974 parameters, 0 gradients, 15.9 GFLOPs
Adding AutoShape...

```

```
[66]: img = os.path.join('data','images','drowsy.f3e2f51d-1d6b-11ee-873f-c8b29bf2e5e6.
      ↪jpg')
      results = model(img)
      %matplotlib inline
      plt.imshow(np.squeeze(results.render()))
      plt.show
```

```
[66]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
[69]: #real time detections
#if you want ot use any other video you can add the path in videocapture
cap = cv2.VideoCapture(0)
while cap.isOpened():
    ret,frame = cap.read()
    #make detections
    results = model(frame)

    cv2.imshow('Detection',np.squeeze(results.render()))
    if cv2.waitKey(10) & 0xFF == ord('q'):
        break
cap.release()
cv2.destroyAllWindows()
```

```
[ ]:
```