assignment_5_2

October 7, 2022

[1]:
```
gpu_info = !nvidia-smi
gpu_info = '\n'.join(gpu_info)
if gpu_info.find('failed') >= 0:
  print('Not connected to a GPU')
else:
  print(gpu_info)
```

```
Thu Oct  6 12:17:28 2022
+-----------------------------------------------------------------------------+
| NVIDIA-SMI 460.32.03    Driver Version: 460.32.03    CUDA Version: 11.2     |
|-------------------------------+----------------------+----------------------+
| GPU  Name        Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap|         Memory-Usage | GPU-Util  Compute M. |
|                               |                      |               MIG M. |
|===============================+======================+======================|
|   0  Tesla V100-SXM2…  Off  | 00000000:00:04.0 Off |                    0 |
| N/A   33C    P0    23W / 300W |      0MiB / 16160MiB |      0%      Default |
|                               |                      |                  N/A |
+-------------------------------+----------------------+----------------------+

+-----------------------------------------------------------------------------+
| Processes:                                                                  |
|  GPU   GI   CI        PID   Type   Process name                  GPU Memory |
|        ID   ID                                                   Usage      |
|=============================================================================|
|  No running processes found                                                 |
+-----------------------------------------------------------------------------+
```

[2]:
```
!git clone https://github.com/ultralytics/yolov5  # clone
!pip install -r yolov5/requirements.txt  # install
```

```
fatal: destination path 'yolov5' already exists and is not an empty directory.
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
wheels/public/simple/
Requirement already satisfied: matplotlib>=3.2.2 in
/usr/local/lib/python3.7/dist-packages (from -r yolov5/requirements.txt (line
5)) (3.2.2)
Requirement already satisfied: numpy>=1.18.5 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 6)) (1.21.6)
```

```
Requirement already satisfied: opencv-python>=4.1.1 in
/usr/local/lib/python3.7/dist-packages (from -r yolov5/requirements.txt (line
7)) (4.6.0.66)
Requirement already satisfied: Pillow>=7.1.2 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 8)) (7.1.2)
Requirement already satisfied: PyYAML>=5.3.1 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 9)) (6.0)
Requirement already satisfied: requests>=2.23.0 in
/usr/local/lib/python3.7/dist-packages (from -r yolov5/requirements.txt (line
10)) (2.23.0)
Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 11)) (1.7.3)
Requirement already satisfied: torch>=1.7.0 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 12)) (1.12.1+cu113)
Requirement already satisfied: torchvision>=0.8.1 in
/usr/local/lib/python3.7/dist-packages (from -r yolov5/requirements.txt (line
13)) (0.13.1+cu113)
Requirement already satisfied: tqdm>=4.64.0 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 14)) (4.64.1)
Requirement already satisfied: tensorboard>=2.4.1 in
/usr/local/lib/python3.7/dist-packages (from -r yolov5/requirements.txt (line
18)) (2.8.0)
Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 23)) (1.3.5)
Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 24)) (0.11.2)
Requirement already satisfied: ipython in /usr/local/lib/python3.7/dist-packages
(from -r yolov5/requirements.txt (line 41)) (7.9.0)
Requirement already satisfied: psutil in /usr/local/lib/python3.7/dist-packages
(from -r yolov5/requirements.txt (line 42)) (5.4.8)
Requirement already satisfied: thop>=0.1.1 in /usr/local/lib/python3.7/dist-
packages (from -r yolov5/requirements.txt (line 43)) (0.1.1.post2209072238)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-
packages (from matplotlib>=3.2.2->-r yolov5/requirements.txt (line 5)) (0.11.0)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in
/usr/local/lib/python3.7/dist-packages (from matplotlib>=3.2.2->-r
yolov5/requirements.txt (line 5)) (3.0.9)
Requirement already satisfied: python-dateutil>=2.1 in
/usr/local/lib/python3.7/dist-packages (from matplotlib>=3.2.2->-r
yolov5/requirements.txt (line 5)) (2.8.2)
Requirement already satisfied: kiwisolver>=1.0.1 in
/usr/local/lib/python3.7/dist-packages (from matplotlib>=3.2.2->-r
yolov5/requirements.txt (line 5)) (1.4.4)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in
/usr/local/lib/python3.7/dist-packages (from requests>=2.23.0->-r
yolov5/requirements.txt (line 10)) (1.24.3)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-
packages (from requests>=2.23.0->-r yolov5/requirements.txt (line 10)) (2.10)
```

```
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.7/dist-packages (from requests>=2.23.0->-r
yolov5/requirements.txt (line 10)) (2022.6.15)
Requirement already satisfied: chardet<4,>=3.0.2 in
/usr/local/lib/python3.7/dist-packages (from requests>=2.23.0->-r
yolov5/requirements.txt (line 10)) (3.0.4)
Requirement already satisfied: typing-extensions in
/usr/local/lib/python3.7/dist-packages (from torch>=1.7.0->-r
yolov5/requirements.txt (line 12)) (4.1.1)
Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in
/usr/local/lib/python3.7/dist-packages (from tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (0.6.1)
Requirement already satisfied: wheel>=0.26 in /usr/local/lib/python3.7/dist-
packages (from tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(0.37.1)
Requirement already satisfied: absl-py>=0.4 in /usr/local/lib/python3.7/dist-
packages (from tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18)) (1.2.0)
Requirement already satisfied: werkzeug>=0.11.15 in
/usr/local/lib/python3.7/dist-packages (from tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (1.0.1)
Requirement already satisfied: protobuf>=3.6.0 in /usr/local/lib/python3.7/dist-
packages (from tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(3.17.3)
Requirement already satisfied: google-auth<3,>=1.6.3 in
/usr/local/lib/python3.7/dist-packages (from tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (1.35.0)
Requirement already satisfied: setuptools>=41.0.0 in
/usr/local/lib/python3.7/dist-packages (from tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (57.4.0)
Requirement already satisfied: grpcio>=1.24.3 in /usr/local/lib/python3.7/dist-
packages (from tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(1.48.1)
Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in
/usr/local/lib/python3.7/dist-packages (from tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (0.4.6)
Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in
/usr/local/lib/python3.7/dist-packages (from tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (1.8.1)
Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.7/dist-
packages (from tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18)) (3.4.1)
Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.7/dist-
packages (from pandas>=1.1.4->-r yolov5/requirements.txt (line 23)) (2022.2.1)
Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.7/dist-
packages (from google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (1.15.0)
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.7/dist-
packages (from google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (4.9)
```

```
Requirement already satisfied: pyasn1-modules>=0.2.1 in
/usr/local/lib/python3.7/dist-packages (from google-
auth<3,>=1.6.3->tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(0.2.8)
Requirement already satisfied: cachetools<5.0,>=2.0.0 in
/usr/local/lib/python3.7/dist-packages (from google-
auth<3,>=1.6.3->tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(4.2.4)
Requirement already satisfied: requests-oauthlib>=0.7.0 in
/usr/local/lib/python3.7/dist-packages (from google-auth-
oauthlib<0.5,>=0.4.1->tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(1.3.1)
Requirement already satisfied: importlib-metadata>=4.4 in
/usr/local/lib/python3.7/dist-packages (from
markdown>=2.6.8->tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(4.12.0)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-
packages (from importlib-metadata>=4.4->markdown>=2.6.8->tensorboard>=2.4.1->-r
yolov5/requirements.txt (line 18)) (3.8.1)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in
/usr/local/lib/python3.7/dist-packages (from pyasn1-modules>=0.2.1->google-
auth<3,>=1.6.3->tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(0.4.8)
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.7/dist-
packages (from requests-oauthlib>=0.7.0->google-auth-
oauthlib<0.5,>=0.4.1->tensorboard>=2.4.1->-r yolov5/requirements.txt (line 18))
(3.2.0)
Requirement already satisfied: pexpect in /usr/local/lib/python3.7/dist-packages
(from ipython->-r yolov5/requirements.txt (line 41)) (4.8.0)
Requirement already satisfied: pygments in /usr/local/lib/python3.7/dist-
packages (from ipython->-r yolov5/requirements.txt (line 41)) (2.6.1)
Requirement already satisfied: decorator in /usr/local/lib/python3.7/dist-
packages (from ipython->-r yolov5/requirements.txt (line 41)) (4.4.2)
Requirement already satisfied: backcall in /usr/local/lib/python3.7/dist-
packages (from ipython->-r yolov5/requirements.txt (line 41)) (0.2.0)
Requirement already satisfied: traitlets>=4.2 in /usr/local/lib/python3.7/dist-
packages (from ipython->-r yolov5/requirements.txt (line 41)) (5.1.1)
Requirement already satisfied: prompt-toolkit<2.1.0,>=2.0.0 in
/usr/local/lib/python3.7/dist-packages (from ipython->-r yolov5/requirements.txt
(line 41)) (2.0.10)
Requirement already satisfied: pickleshare in /usr/local/lib/python3.7/dist-
packages (from ipython->-r yolov5/requirements.txt (line 41)) (0.7.5)
Requirement already satisfied: jedi>=0.10 in /usr/local/lib/python3.7/dist-
packages (from ipython->-r yolov5/requirements.txt (line 41)) (0.18.1)
Requirement already satisfied: parso<0.9.0,>=0.8.0 in
/usr/local/lib/python3.7/dist-packages (from jedi>=0.10->ipython->-r
yolov5/requirements.txt (line 41)) (0.8.3)
Requirement already satisfied: wcwidth in /usr/local/lib/python3.7/dist-packages
```

```
(from prompt-toolkit<2.1.0,>=2.0.0->ipython->-r yolov5/requirements.txt (line
41)) (0.2.5)
Requirement already satisfied: ptyprocess>=0.5 in /usr/local/lib/python3.7/dist-
packages (from pexpect->ipython->-r yolov5/requirements.txt (line 41)) (0.7.0)
```

[34]:
```
import torch
from IPython.display import Image  # for displaying images
import os
import random
import shutil
from sklearn.model_selection import train_test_split
import xml.etree.ElementTree as ET
from xml.dom import minidom
from tqdm import tqdm
from PIL import Image, ImageDraw
import numpy as np
import matplotlib.pyplot as plt
import glob
import cv2
```

[4]:
```
from google.colab import drive
drive.mount('/content/gdrive')
!cp -f '/content/gdrive/MyDrive/sit789_assignment_5_2_data/
 ↪RoadSignDetectionDataset.zip' '/content/'
!rm -rf RoadSignDetectionDataset
!mkdir RoadSignDetectionDataset
!unzip /content/RoadSignDetectionDataset.zip -d /content/
 ↪RoadSignDetectionDataset/
```

```
Drive already mounted at /content/gdrive; to attempt to forcibly remount, call
drive.mount("/content/gdrive", force_remount=True).
Archive:  /content/RoadSignDetectionDataset.zip
  inflating: /content/RoadSignDetectionDataset/annotations/road0.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road1.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road10.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road100.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road101.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road102.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road103.xml
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  inflating: /content/RoadSignDetectionDataset/annotations/road106.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road107.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road108.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road109.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road11.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road110.xml
  inflating: /content/RoadSignDetectionDataset/annotations/road111.xml
```

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inflating: /content/RoadSignDetectionDataset/annotations/road112.xml
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inflating: /content/RoadSignDetectionDataset/annotations/road156.xml
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inflating: /content/RoadSignDetectionDataset/annotations/road2.xml
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inflating: /content/RoadSignDetectionDataset/annotations/road203.xml
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inflating: /content/RoadSignDetectionDataset/annotations/road205.xml
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inflating: /content/RoadSignDetectionDataset/annotations/road225.xml
inflating: /content/RoadSignDetectionDataset/annotations/road226.xml
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inflating: /content/RoadSignDetectionDataset/images/road836.png
inflating: /content/RoadSignDetectionDataset/images/road837.png
inflating: /content/RoadSignDetectionDataset/images/road838.png
inflating: /content/RoadSignDetectionDataset/images/road839.png
inflating: /content/RoadSignDetectionDataset/images/road84.png
inflating: /content/RoadSignDetectionDataset/images/road840.png
inflating: /content/RoadSignDetectionDataset/images/road841.png
inflating: /content/RoadSignDetectionDataset/images/road842.png
inflating: /content/RoadSignDetectionDataset/images/road843.png
inflating: /content/RoadSignDetectionDataset/images/road844.png
inflating: /content/RoadSignDetectionDataset/images/road845.png
inflating: /content/RoadSignDetectionDataset/images/road846.png
inflating: /content/RoadSignDetectionDataset/images/road847.png
inflating: /content/RoadSignDetectionDataset/images/road848.png
inflating: /content/RoadSignDetectionDataset/images/road849.png
inflating: /content/RoadSignDetectionDataset/images/road85.png
inflating: /content/RoadSignDetectionDataset/images/road850.png
inflating: /content/RoadSignDetectionDataset/images/road851.png
inflating: /content/RoadSignDetectionDataset/images/road852.png
inflating: /content/RoadSignDetectionDataset/images/road853.png
inflating: /content/RoadSignDetectionDataset/images/road854.png
inflating: /content/RoadSignDetectionDataset/images/road855.png
inflating: /content/RoadSignDetectionDataset/images/road856.png
inflating: /content/RoadSignDetectionDataset/images/road857.png
inflating: /content/RoadSignDetectionDataset/images/road858.png
inflating: /content/RoadSignDetectionDataset/images/road859.png
inflating: /content/RoadSignDetectionDataset/images/road86.png
inflating: /content/RoadSignDetectionDataset/images/road860.png
inflating: /content/RoadSignDetectionDataset/images/road861.png
inflating: /content/RoadSignDetectionDataset/images/road862.png
inflating: /content/RoadSignDetectionDataset/images/road863.png
inflating: /content/RoadSignDetectionDataset/images/road864.png
inflating: /content/RoadSignDetectionDataset/images/road865.png
inflating: /content/RoadSignDetectionDataset/images/road866.png
inflating: /content/RoadSignDetectionDataset/images/road867.png
inflating: /content/RoadSignDetectionDataset/images/road868.png
inflating: /content/RoadSignDetectionDataset/images/road869.png
inflating: /content/RoadSignDetectionDataset/images/road87.png
inflating: /content/RoadSignDetectionDataset/images/road870.png
inflating: /content/RoadSignDetectionDataset/images/road871.png
inflating: /content/RoadSignDetectionDataset/images/road872.png
inflating: /content/RoadSignDetectionDataset/images/road873.png
inflating: /content/RoadSignDetectionDataset/images/road874.png
inflating: /content/RoadSignDetectionDataset/images/road875.png
inflating: /content/RoadSignDetectionDataset/images/road876.png
inflating: /content/RoadSignDetectionDataset/images/road88.png
inflating: /content/RoadSignDetectionDataset/images/road89.png
inflating: /content/RoadSignDetectionDataset/images/road9.png
```

```
  inflating: /content/RoadSignDetectionDataset/images/road90.png
  inflating: /content/RoadSignDetectionDataset/images/road91.png
  inflating: /content/RoadSignDetectionDataset/images/road92.png
  inflating: /content/RoadSignDetectionDataset/images/road93.png
  inflating: /content/RoadSignDetectionDataset/images/road94.png
  inflating: /content/RoadSignDetectionDataset/images/road95.png
  inflating: /content/RoadSignDetectionDataset/images/road96.png
  inflating: /content/RoadSignDetectionDataset/images/road97.png
  inflating: /content/RoadSignDetectionDataset/images/road98.png
  inflating: /content/RoadSignDetectionDataset/images/road99.png
```

[5]:
```python
def extract_info_from_xml(xml_file):
    root = ET.parse(xml_file).getroot()

    # Initialise the info dict
    info_dict = {}
    info_dict['bboxes'] = []

    # Parse the XML Tree
    for elem in root:
        # Get the file name
        if elem.tag == "filename":
            info_dict['filename'] = elem.text

        # Get the image size
        elif elem.tag == "size":
            image_size = []
            for subelem in elem:
                image_size.append(int(subelem.text))

            info_dict['image_size'] = tuple(image_size)

        # Get details of the bounding box
        elif elem.tag == "object":
            bbox = {}
            for subelem in elem:
                if subelem.tag == "name":
                    bbox["class"] = subelem.text

                elif subelem.tag == "bndbox":
                    for subsubelem in subelem:
                        bbox[subsubelem.tag] = int(subsubelem.text)
            info_dict['bboxes'].append(bbox)

    return info_dict
```

[6]:
```
print(extract_info_from_xml('/content/RoadSignDetectionDataset/annotations/
↪road4.xml'))
```

```
{'bboxes': [{'class': 'trafficlight', 'xmin': 20, 'ymin': 109, 'xmax': 81,
'ymax': 237}, {'class': 'trafficlight', 'xmin': 116, 'ymin': 162, 'xmax': 163,
'ymax': 272}, {'class': 'trafficlight', 'xmin': 189, 'ymin': 189, 'xmax': 233,
'ymax': 295}], 'filename': 'road4.png', 'image_size': (267, 400, 3)}
```

[7]:
```
# Dictionary that maps class names to IDs
class_name_to_id_mapping = {"trafficlight": 0,
                            "stop": 1,
                            "speedlimit": 2,
                            "crosswalk": 3}

# Convert the info dict to the required yolo format and write it to disk
def convert_to_yolov5(info_dict):
    print_buffer = []

    # For each bounding box
    for b in info_dict["bboxes"]:
        try:
            class_id = class_name_to_id_mapping[b["class"]]
        except KeyError:
            print("Invalid Class. Must be one from ", class_name_to_id_mapping.
↪keys())

        # Transform the bbox co-ordinates as per the format required by YOLO v5
        b_center_x = (b["xmin"] + b["xmax"]) / 2
        b_center_y = (b["ymin"] + b["ymax"]) / 2
        b_width    = (b["xmax"] - b["xmin"])
        b_height   = (b["ymax"] - b["ymin"])

        # Normalise the co-ordinates by the dimensions of the image
        image_w, image_h, image_c = info_dict["image_size"]
        b_center_x /= image_w
        b_center_y /= image_h
        b_width    /= image_w
        b_height   /= image_h

        #Write the bbox details to the file
        print_buffer.append("{} {:.3f} {:.3f} {:.3f} {:.3f}".format(class_id,␣
↪b_center_x, b_center_y, b_width, b_height))

    # Name of the file which we have to save
    save_file_name = os.path.join("./annotations", info_dict["filename"].
↪replace("png", "txt"))
```

```
    # Save the annotation to disk
    print("\n".join(print_buffer), file= open(save_file_name, "w"))
```

[11]:
```
%cd /content/RoadSignDetectionDataset
```

```
/content/RoadSignDetectionDataset
/content/RoadSignDetectionDataset
```

[12]:
```
# Get the annotations
annotations = [os.path.join('./annotations', x) for x in os.listdir('./
 ↪annotations') if x[-3:] == "xml"]
annotations.sort()

# Convert and save the annotations
for ann in tqdm(annotations):
    info_dict = extract_info_from_xml(ann)
    convert_to_yolov5(info_dict)
annotations = [os.path.join('./annotations', x) for x in os.listdir('./
 ↪annotations') if x[-3:] == "txt"]
```

```
100%|      | 877/877 [00:00<00:00, 6939.27it/s]
```

[19]:
```
class_id_to_name_mapping = dict(zip(class_name_to_id_mapping.values(),␣
 ↪class_name_to_id_mapping.keys()))

def plot_bounding_box(image, annotation_list):
    annotations = np.array(annotation_list)
    w, h = image.size

    plotted_image = ImageDraw.Draw(image)

    transformed_annotations = np.copy(annotations)
    transformed_annotations[:,[1,3]] = annotations[:,[1,3]] * w
    transformed_annotations[:,[2,4]] = annotations[:,[2,4]] * h

    transformed_annotations[:,1] = transformed_annotations[:,1] -␣
 ↪(transformed_annotations[:,3] / 2)
    transformed_annotations[:,2] = transformed_annotations[:,2] -␣
 ↪(transformed_annotations[:,4] / 2)
    transformed_annotations[:,3] = transformed_annotations[:,1] +␣
 ↪transformed_annotations[:,3]
    transformed_annotations[:,4] = transformed_annotations[:,2] +␣
 ↪transformed_annotations[:,4]

    for ann in transformed_annotations:
        obj_cls, x0, y0, x1, y1 = ann
        plotted_image.rectangle(((x0,y0), (x1,y1)))
```

```
        plotted_image.text((x0, y0 - 10),␣
 ↪class_id_to_name_mapping[(int(obj_cls))])

    plt.imshow(np.array(image))
    plt.show()

# Get any random annotation file
annotation_file = random.choice(annotations)
with open(annotation_file, "r") as file:
    annotation_list = file.read().split("\n")[:-1]
    annotation_list = [x.split(" ") for x in annotation_list]
    annotation_list = [[float(y) for y in x ] for x in annotation_list]

#Get the corresponding image file
image_file = annotation_file.replace("annotations", "images").replace("txt",␣
 ↪"png")
assert os.path.exists(image_file)

#Load the image
image = Image.open(image_file)

#Plot the Bounding Box
plot_bounding_box(image, annotation_list)
```

[20]:
```
# Read images and annotations
images = [os.path.join('images', x) for x in os.listdir('images')]
annotations = [os.path.join('annotations', x) for x in os.
 ↪listdir('annotations') if x[-3:] == "txt"]

images.sort()
annotations.sort()

# Split the dataset into train-valid-test splits
train_images, val_images, train_annotations, val_annotations =␣
 ↪train_test_split(images, annotations, test_size = 0.2, random_state = 1)
val_images, test_images, val_annotations, test_annotations =␣
 ↪train_test_split(val_images, val_annotations, test_size = 0.5, random_state␣
 ↪= 1)
```

[21]:
```
!mkdir images/train images/val images/test annotations/train annotations/val␣
 ↪annotations/test
```

[22]:
```
#Utility function to move images
def move_files_to_folder(list_of_files, destination_folder):
    for f in list_of_files:
        try:
            shutil.move(f, destination_folder)
        except:
            print(f)
            assert False

# Move the splits into their folders
move_files_to_folder(train_images, 'images/train')
move_files_to_folder(val_images, 'images/val/')
move_files_to_folder(test_images, 'images/test/')
move_files_to_folder(train_annotations, 'annotations/train/')
move_files_to_folder(val_annotations, 'annotations/val/')
move_files_to_folder(test_annotations, 'annotations/test/')
```

[26]:
```
!mv annotations labels
%cd ../yolov5
```

```
mv: cannot stat 'annotations': No such file or directory
/content/yolov5
```

[27]:
```
!pwd
```

```
/content/yolov5
```

[31]:
```
!python train.py --img 640 --cfg yolov5s.yaml --hyp hyp.scratch-high.yaml␣
 ↪--batch 32 --epochs 100 --data road_sign_data.yaml --weights yolov5s.pt␣
 ↪--workers 24 --name yolo_road_det
```

```
train: weights=yolov5s.pt, cfg=yolov5s.yaml,
data=road_sign_data.yaml, hyp=hyp.scratch-high.yaml, epochs=100, batch_size=32,
imgsz=640, 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=24, project=runs/train,
name=yolo_road_det, 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  v6.2-186-g7f097dd Python-3.7.14 torch-1.12.1+cu113 CUDA:0 (Tesla
V100-SXM2-16GB, 16160MiB)

hyperparameters: lr0=0.01, lrf=0.1, momentum=0.937,
weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.8, warmup_bias_lr=0.1,
box=0.05, cls=0.3, cls_pw=1.0, obj=0.7, 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=0.9, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, mosaic=1.0,
mixup=0.1, copy_paste=0.1
Weights & Biases: run 'pip install wandb' to automatically track
and visualize YOLOv5  runs in Weights & Biases
ClearML: run 'pip install clearml' to automatically track,
visualize and remotely train YOLOv5  in ClearML
Comet: run 'pip install comet_ml' to automatically track and
visualize YOLOv5  runs in Comet
TensorBoard: Start with 'tensorboard --logdir runs/train', view at
http://localhost:6006/
Downloading https://ultralytics.com/assets/Arial.ttf to
/root/.config/Ultralytics/Arial.ttf…
100% 755k/755k [00:00<00:00, 51.0MB/s]
Downloading
https://github.com/ultralytics/yolov5/releases/download/v6.2/yolov5s.pt to
yolov5s.pt…
100% 14.1M/14.1M [00:00<00:00, 41.4MB/s]

Overriding model.yaml nc=80 with nc=4

                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     24273  models.yolo.Detect                      [4,
[[10, 13, 16, 30, 33, 23], [30, 61, 62, 45, 59, 119], [116, 90, 156, 198, 373,
326]], [128, 256, 512]]
YOLOv5s summary: 214 layers, 7030417 parameters, 7030417 gradients, 16.0 GFLOPs

Transferred 342/349 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
albumentations: Blur(p=0.01, blur_limit=(3, 7)), MedianBlur(p=0.01,
blur_limit=(3, 7)), ToGray(p=0.01), CLAHE(p=0.01, clip_limit=(1, 4.0),
tile_grid_size=(8, 8))
```

```
train: Scanning '/content/RoadSignDetectionDataset/labels/train'
images and labels…701 found, 0 missing, 0 empty, 0 corrupt: 100% 701/701
[00:00<00:00, 5610.25it/s]
train: New cache created:
/content/RoadSignDetectionDataset/labels/train.cache
val: Scanning '/content/RoadSignDetectionDataset/labels/val' images
and labels…88 found, 0 missing, 0 empty, 0 corrupt: 100% 88/88 [00:00<00:00,
909.22it/s]
val: New cache created:
/content/RoadSignDetectionDataset/labels/val.cache

AutoAnchor: 5.59 anchors/target, 1.000 Best Possible Recall (BPR).
Current anchors are a good fit to dataset
Plotting labels to runs/train/yolo_road_det3/labels.jpg…
Image sizes 640 train, 640 val
Using 8 dataloader workers
Logging results to runs/train/yolo_road_det3
Starting training for 100 epochs…

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       0/99      6.46G     0.1083    0.02287    0.02311         87        640:
100% 22/22 [00:08<00:00,  2.70it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:02<00:00,  1.48s/it]
                   all         88        132      0.696      0.205       0.17
0.0441

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       1/99      8.08G    0.06918    0.02491    0.01784        100        640:
100% 22/22 [00:04<00:00,  4.46it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.50it/s]
                   all         88        132      0.727      0.182      0.184
0.067

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       2/99      8.08G    0.05932    0.02193    0.01667        112        640:
100% 22/22 [00:04<00:00,  4.75it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.46it/s]
                   all         88        132      0.623      0.195      0.125
0.0459

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       3/99      8.08G    0.05778    0.01939    0.01546         95        640:
100% 22/22 [00:05<00:00,  3.87it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.70it/s]
```

```
                 all         88        132      0.738      0.239      0.197
0.106

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       4/99      8.08G    0.05523    0.01759    0.01424         72        640:
100% 22/22 [00:05<00:00,  4.17it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.95it/s]
                 all         88        132      0.371      0.429      0.441
0.211

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       5/99      8.08G    0.05157    0.01466    0.01197        105        640:
100% 22/22 [00:06<00:00,  3.34it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.47it/s]
                 all         88        132      0.466      0.647      0.598
0.275

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       6/99      8.08G     0.0483    0.01302     0.0103         93        640:
100% 22/22 [00:04<00:00,  4.85it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.27it/s]
                 all         88        132      0.832      0.629      0.787
0.358

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       7/99      8.08G    0.04301    0.01145   0.008366         93        640:
100% 22/22 [00:05<00:00,  3.89it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.22it/s]
                 all         88        132      0.741      0.789      0.826
0.405

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       8/99      8.08G     0.0423    0.01024   0.007336         93        640:
100% 22/22 [00:05<00:00,  4.03it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.04it/s]
                 all         88        132      0.863      0.802      0.882
0.446

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
       9/99      8.08G    0.03994   0.009085   0.006396        107        640:
100% 22/22 [00:05<00:00,  4.12it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.57it/s]
```

```
                 all         88        132      0.811      0.833      0.846
0.473

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      10/99      8.08G    0.03822    0.00921   0.005511         82        640:
100% 22/22 [00:05<00:00,  4.04it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.30it/s]
                 all         88        132      0.912      0.882      0.925
0.503

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      11/99      8.08G    0.03782   0.009302   0.005117        106        640:
100% 22/22 [00:06<00:00,  3.39it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.99it/s]
                 all         88        132      0.839      0.868      0.856
0.501

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      12/99      8.08G    0.03578   0.008653   0.004564        107        640:
100% 22/22 [00:04<00:00,  4.76it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.33it/s]
                 all         88        132      0.931      0.914      0.931
0.527

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      13/99      8.08G    0.03421   0.008664   0.004032         81        640:
100% 22/22 [00:05<00:00,  3.83it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.81it/s]
                 all         88        132      0.826      0.917      0.909
0.541

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      14/99      8.08G    0.03359   0.008406   0.003831         81        640:
100% 22/22 [00:05<00:00,  3.88it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.15it/s]
                 all         88        132      0.922      0.888       0.94
0.585

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      15/99      8.08G    0.03281   0.008031   0.003723         88        640:
100% 22/22 [00:05<00:00,  3.93it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.99it/s]
```

```
                 all         88        132      0.965       0.88      0.941
0.579

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      16/99      8.08G     0.0319   0.008042   0.003496         92        640:
100% 22/22 [00:05<00:00,  3.98it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.02it/s]
                 all         88        132      0.974      0.905      0.967
0.594

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      17/99      8.08G    0.03269   0.007651   0.003462         72        640:
100% 22/22 [00:05<00:00,  4.38it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.55it/s]
                 all         88        132      0.938      0.941      0.962
0.644

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      18/99      8.08G    0.03105   0.008038   0.003225        129        640:
100% 22/22 [00:05<00:00,  3.71it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.14it/s]
                 all         88        132      0.942      0.937      0.963
0.602

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      19/99      8.08G    0.03093   0.007821    0.00322         78        640:
100% 22/22 [00:06<00:00,  3.54it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.82it/s]
                 all         88        132      0.964      0.953      0.975
0.637

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      20/99      8.08G    0.02957   0.007462   0.002836         95        640:
100% 22/22 [00:05<00:00,  4.15it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.04it/s]
                 all         88        132      0.956      0.938      0.962
0.639

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      21/99      8.08G    0.02988   0.007722    0.00294         72        640:
100% 22/22 [00:06<00:00,  3.65it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.50it/s]
```

```
                 all         88        132      0.918      0.924      0.953
0.614

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      22/99      8.08G     0.0289   0.007662   0.002786        100        640:
100% 22/22 [00:05<00:00,  3.77it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.16it/s]
                 all         88        132      0.975      0.924      0.948
0.606

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      23/99      8.08G    0.02918   0.007114   0.002713         90        640:
100% 22/22 [00:06<00:00,  3.56it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.45it/s]
                 all         88        132      0.981      0.921      0.953
0.597

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      24/99      8.08G    0.02908   0.007546   0.002646         93        640:
100% 22/22 [00:05<00:00,  4.13it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.82it/s]
                 all         88        132       0.95      0.949      0.978
0.695

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      25/99      8.08G    0.02719   0.006949   0.002307         91        640:
100% 22/22 [00:05<00:00,  3.96it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.87it/s]
                 all         88        132      0.951      0.944      0.965
0.672

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      26/99      8.08G    0.02712   0.007153   0.002457         95        640:
100% 22/22 [00:05<00:00,  3.89it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.93it/s]
                 all         88        132      0.942      0.928      0.966
0.686

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      27/99      8.08G    0.02743   0.007378    0.00251         98        640:
100% 22/22 [00:05<00:00,  3.86it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.43it/s]
```

```
                 all         88        132      0.981      0.943      0.961
0.717

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      28/99      8.08G     0.0266    0.00686   0.002348        107        640:
100% 22/22 [00:05<00:00,  3.80it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.33it/s]
                 all         88        132      0.963       0.95      0.974
0.723

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      29/99      8.08G    0.02687   0.007231   0.002493         75        640:
100% 22/22 [00:05<00:00,  3.97it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.88it/s]
                 all         88        132      0.958      0.981      0.989
0.705

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      30/99      8.08G    0.02619   0.007012    0.00217         75        640:
100% 22/22 [00:06<00:00,  3.64it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.56it/s]
                 all         88        132      0.954      0.971       0.98
0.694

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      31/99      8.08G    0.02723   0.007169   0.002381        113        640:
100% 22/22 [00:06<00:00,  3.59it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.47it/s]
                 all         88        132      0.966      0.944      0.977
0.713

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      32/99      8.08G    0.02561   0.007232    0.00223         85        640:
100% 22/22 [00:07<00:00,  3.10it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.77it/s]
                 all         88        132      0.957      0.965       0.98
0.716

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      33/99      8.08G    0.02568   0.006736   0.002239         93        640:
100% 22/22 [00:05<00:00,  4.34it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.16it/s]
```

```
                 all         88        132      0.971      0.897      0.966
0.672

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      34/99      8.08G    0.02528   0.006985   0.002148         84        640:
100% 22/22 [00:05<00:00,  3.85it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.51it/s]
                 all         88        132       0.95      0.926       0.97
0.725

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      35/99      8.08G    0.02457   0.006875   0.001967         78        640:
100% 22/22 [00:05<00:00,  4.13it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.27it/s]
                 all         88        132      0.928      0.965      0.976
0.718

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      36/99      8.08G    0.02456    0.00686   0.002048        129        640:
100% 22/22 [00:07<00:00,  3.07it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.03it/s]
                 all         88        132      0.977       0.92      0.981
0.704

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      37/99      8.08G    0.02389   0.006842   0.002111         81        640:
100% 22/22 [00:05<00:00,  3.77it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.74it/s]
                 all         88        132      0.968      0.943      0.962
0.731

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      38/99      8.08G    0.02478   0.006474   0.001945         92        640:
100% 22/22 [00:05<00:00,  4.31it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.72it/s]
                 all         88        132      0.965      0.924      0.974
0.744

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      39/99      8.08G     0.0245   0.006911   0.001883        103        640:
100% 22/22 [00:05<00:00,  4.05it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.64it/s]
```

```
                 all         88        132      0.986      0.924      0.978
0.73

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      40/99      8.08G    0.02318   0.006571   0.001915         87        640:
100% 22/22 [00:06<00:00,  3.34it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.36it/s]
                 all         88        132      0.968      0.948      0.977
0.757

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      41/99      8.08G    0.02357   0.006809   0.001882        120        640:
100% 22/22 [00:05<00:00,  3.76it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.97it/s]
                 all         88        132      0.983      0.941       0.98
0.728

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      42/99      8.08G    0.02328    0.00653   0.001925         78        640:
100% 22/22 [00:05<00:00,  3.97it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.02it/s]
                 all         88        132      0.922      0.979      0.974
0.712

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      43/99      8.08G     0.0228   0.006247   0.001741         80        640:
100% 22/22 [00:05<00:00,  3.93it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.35it/s]
                 all         88        132      0.948      0.962      0.981
0.719

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      44/99      8.08G    0.02229    0.00612   0.001663         79        640:
100% 22/22 [00:06<00:00,  3.43it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.10it/s]
                 all         88        132      0.889      0.974      0.972
0.738

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      45/99      8.08G    0.02211   0.006153    0.00182         90        640:
100% 22/22 [00:06<00:00,  3.50it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.24it/s]
```

```
                 all         88        132      0.979      0.933      0.975
0.735

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      46/99      8.08G    0.02258   0.006025   0.001796        105        640:
100% 22/22 [00:06<00:00,  3.29it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.73it/s]
                 all         88        132      0.981      0.944      0.977
0.743

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      47/99      8.08G    0.02194   0.006173   0.001674         59        640:
100% 22/22 [00:06<00:00,  3.60it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.73it/s]
                 all         88        132      0.956      0.966      0.967
0.741

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      48/99      8.08G     0.0216   0.006345   0.001681         90        640:
100% 22/22 [00:05<00:00,  3.80it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.12it/s]
                 all         88        132      0.979      0.931      0.968
0.746

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      49/99      8.08G    0.02123    0.00614   0.001655         82        640:
100% 22/22 [00:05<00:00,  3.88it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.93it/s]
                 all         88        132      0.974      0.968      0.981
0.764

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      50/99      8.08G    0.02203   0.006111   0.001561         89        640:
100% 22/22 [00:05<00:00,  4.02it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.16it/s]
                 all         88        132       0.98      0.925      0.962
0.736

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      51/99      8.08G    0.02125   0.006039   0.001574         57        640:
100% 22/22 [00:05<00:00,  3.67it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.97it/s]
```

```
                 all         88        132      0.979      0.962      0.975
0.748

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      52/99      8.08G    0.02105   0.006075   0.001573         81        640:
100% 22/22 [00:05<00:00,  4.35it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.45it/s]
                 all         88        132      0.971      0.967      0.972
0.732

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      53/99      8.08G    0.02138   0.006079   0.001534         88        640:
100% 22/22 [00:06<00:00,  3.22it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.22it/s]
                 all         88        132      0.928      0.973      0.975
0.76

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      54/99      8.08G    0.02074    0.00584   0.001547         86        640:
100% 22/22 [00:06<00:00,  3.40it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.68it/s]
                 all         88        132      0.932      0.974       0.97
0.771

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      55/99      8.08G    0.02098   0.005952   0.001354         97        640:
100% 22/22 [00:07<00:00,  2.99it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.97it/s]
                 all         88        132      0.942       0.97      0.983
0.764

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      56/99      8.08G    0.02078   0.006223   0.001337        107        640:
100% 22/22 [00:05<00:00,  3.75it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.92it/s]
                 all         88        132      0.936      0.971      0.984
0.75

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      57/99      8.08G    0.02053    0.00623    0.00144         57        640:
100% 22/22 [00:06<00:00,  3.38it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.04it/s]
```

```
                 all         88        132      0.918      0.984      0.984
0.763

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      58/99      8.08G    0.02003   0.005945   0.001456         97        640:
100% 22/22 [00:05<00:00,  3.77it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.74it/s]
                 all         88        132      0.944      0.959      0.984
0.763

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      59/99      8.08G    0.02022   0.005878   0.001516         97        640:
100% 22/22 [00:05<00:00,  3.67it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.31it/s]
                 all         88        132      0.954       0.97      0.981
0.766

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      60/99      8.08G    0.01931   0.005838   0.001416         83        640:
100% 22/22 [00:04<00:00,  4.49it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.87it/s]
                 all         88        132      0.984      0.914      0.975
0.765

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      61/99      8.08G    0.02001   0.005658   0.001352         91        640:
100% 22/22 [00:06<00:00,  3.58it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.92it/s]
                 all         88        132      0.951       0.97      0.984
0.77

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      62/99      8.08G    0.01964   0.005909   0.001306         78        640:
100% 22/22 [00:05<00:00,  4.09it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.03it/s]
                 all         88        132      0.978      0.979      0.991
0.782

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      63/99      8.08G    0.01921   0.005922   0.001344         81        640:
100% 22/22 [00:06<00:00,  3.60it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.90it/s]
```

```
                 all         88        132      0.924      0.983      0.971
0.776

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      64/99      8.08G      0.018   0.005566   0.001249        108        640:
100% 22/22 [00:05<00:00,  4.07it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.62it/s]
                 all         88        132      0.965      0.934      0.976
0.755

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      65/99      8.08G    0.01843   0.005869   0.001095         95        640:
100% 22/22 [00:06<00:00,  3.38it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.26it/s]
                 all         88        132      0.937      0.984      0.974
0.775

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      66/99      8.08G    0.01883   0.005993   0.001225         85        640:
100% 22/22 [00:06<00:00,  3.24it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.48it/s]
                 all         88        132      0.959       0.98      0.985
0.767

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      67/99      8.08G    0.01945   0.005669   0.001283         98        640:
100% 22/22 [00:06<00:00,  3.60it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.08it/s]
                 all         88        132      0.966       0.95      0.984
0.78

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      68/99      8.08G    0.01815   0.005539    0.00129         87        640:
100% 22/22 [00:05<00:00,  3.76it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.92it/s]
                 all         88        132      0.962      0.933      0.984
0.779

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      69/99      8.08G    0.01852   0.005758   0.001265        102        640:
100% 22/22 [00:05<00:00,  3.82it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.68it/s]
```

```
                 all         88        132       0.94      0.962      0.973
0.768

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      70/99      8.08G    0.01787   0.005545   0.001143         96        640:
100% 22/22 [00:06<00:00,  3.58it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.44it/s]
                 all         88        132      0.977      0.947      0.973
0.79

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      71/99      8.08G    0.01814   0.005644   0.001157        110        640:
100% 22/22 [00:05<00:00,  4.03it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.18it/s]
                 all         88        132      0.947      0.952      0.974
0.77

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      72/99      8.08G    0.01739   0.005552   0.000976         80        640:
100% 22/22 [00:05<00:00,  3.88it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.88it/s]
                 all         88        132      0.921      0.961      0.981
0.784

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      73/99      8.08G     0.0177   0.005701   0.001083        101        640:
100% 22/22 [00:06<00:00,  3.57it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.24it/s]
                 all         88        132      0.965      0.911      0.979
0.773

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      74/99      8.08G    0.01706   0.005411   0.001092         71        640:
100% 22/22 [00:06<00:00,  3.29it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.75it/s]
                 all         88        132      0.952      0.955      0.985
0.799

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      75/99      8.08G    0.01731   0.005856   0.001112        107        640:
100% 22/22 [00:05<00:00,  3.86it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.63it/s]
```

```
                 all         88        132       0.95      0.976      0.988
0.792

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      76/99      8.08G    0.01718   0.005293   0.001084         88        640:
100% 22/22 [00:06<00:00,  3.60it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.01it/s]
                 all         88        132      0.956      0.944      0.987
0.802

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      77/99      8.08G    0.01741   0.005503   0.001028         88        640:
100% 22/22 [00:04<00:00,  4.50it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.95it/s]
                 all         88        132       0.95      0.982      0.989
0.783

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      78/99      8.08G    0.01702   0.005364   0.001006         81        640:
100% 22/22 [00:06<00:00,  3.28it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.21it/s]
                 all         88        132      0.971      0.985      0.993
0.786

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      79/99      8.08G    0.01664   0.005333  0.0009713         96        640:
100% 22/22 [00:06<00:00,  3.61it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.77it/s]
                 all         88        132      0.981      0.965      0.989
0.809

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      80/99      8.08G     0.0164   0.005115  0.0009684         96        640:
100% 22/22 [00:04<00:00,  4.84it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.53it/s]
                 all         88        132      0.966      0.967      0.988
0.796

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      81/99      8.08G    0.01661   0.005311  0.0009634         90        640:
100% 22/22 [00:05<00:00,  3.78it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.11it/s]
```

```
                 all         88        132      0.972       0.96      0.988
0.798

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      82/99      8.08G    0.01619    0.00552  0.0009595        106        640:
100% 22/22 [00:06<00:00,  3.16it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.33it/s]
                 all         88        132      0.959       0.98      0.988
0.802

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      83/99      8.08G    0.01606   0.005174  0.0009515         85        640:
100% 22/22 [00:05<00:00,  3.67it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.71it/s]
                 all         88        132      0.939       0.97      0.983
0.792

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      84/99      8.08G    0.01631   0.005249  0.0009134         60        640:
100% 22/22 [00:05<00:00,  4.34it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.51it/s]
                 all         88        132      0.943      0.961      0.977
0.796

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      85/99      8.08G    0.01593   0.005192  0.0009041         98        640:
100% 22/22 [00:06<00:00,  3.39it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.18it/s]
                 all         88        132      0.974      0.928      0.976
0.794

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      86/99      8.08G    0.01652   0.005258  0.0008908         69        640:
100% 22/22 [00:05<00:00,  3.72it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.10it/s]
                 all         88        132      0.902      0.992      0.984
0.787

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      87/99      8.08G     0.0157   0.005241  0.0009021         54        640:
100% 22/22 [00:06<00:00,  3.53it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.18it/s]
```

```
                 all         88        132      0.941      0.986      0.985
0.785

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      88/99      8.08G    0.01559   0.005297  0.0008223         84        640:
100% 22/22 [00:06<00:00,  3.42it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.22it/s]
                 all         88        132      0.971      0.955      0.985
0.795

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      89/99      8.08G    0.01606   0.005096  0.0008322        100        640:
100% 22/22 [00:05<00:00,  4.06it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.81it/s]
                 all         88        132      0.939      0.972      0.984
0.797

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      90/99      8.08G    0.01604   0.005375  0.0008942         75        640:
100% 22/22 [00:06<00:00,  3.48it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.62it/s]
                 all         88        132      0.972      0.969      0.989
0.794

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      91/99      8.08G    0.01549    0.00493  0.0009987         79        640:
100% 22/22 [00:06<00:00,  3.63it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.87it/s]
                 all         88        132      0.976      0.968      0.989
0.799

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      92/99      8.08G      0.015   0.005198  0.0007106         84        640:
100% 22/22 [00:05<00:00,  3.93it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.12it/s]
                 all         88        132      0.977      0.958      0.988
0.793

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      93/99      8.08G    0.01462   0.004842  0.0008006         89        640:
100% 22/22 [00:06<00:00,  3.52it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.05it/s]
```

```
                 all         88        132      0.943      0.974      0.981
0.805

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      94/99      8.08G    0.01492   0.004959  0.0008217        100        640:
100% 22/22 [00:06<00:00,  3.45it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.84it/s]
                 all         88        132       0.99      0.924      0.972
0.797

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      95/99      8.08G    0.01456   0.005134  0.0008545         89        640:
100% 22/22 [00:06<00:00,  3.29it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.54it/s]
                 all         88        132      0.989      0.925      0.972
0.808

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      96/99      8.08G    0.01425   0.004754  0.0006507         68        640:
100% 22/22 [00:05<00:00,  4.09it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.66it/s]
                 all         88        132      0.992      0.928      0.971
0.802

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      97/99      8.08G    0.01453   0.004586  0.0007498         82        640:
100% 22/22 [00:05<00:00,  4.05it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.01it/s]
                 all         88        132      0.985      0.937      0.974
0.819

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      98/99      8.08G    0.01493   0.005011  0.0006505         85        640:
100% 22/22 [00:05<00:00,  3.81it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.76it/s]
                 all         88        132       0.96       0.97      0.985
0.82

      Epoch    GPU_mem   box_loss   obj_loss   cls_loss  Instances       Size
      99/99      8.08G    0.01428   0.004918  0.0009268         90        640:
100% 22/22 [00:05<00:00,  4.35it/s]
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:00<00:00,  2.60it/s]
```

```
                   all         88        132      0.993      0.922      0.983
0.812

100 epochs completed in 0.215 hours.
Optimizer stripped from runs/train/yolo_road_det3/weights/last.pt, 14.4MB
Optimizer stripped from runs/train/yolo_road_det3/weights/best.pt, 14.4MB

Validating runs/train/yolo_road_det3/weights/best.pt…
Fusing layers…
YOLOv5s summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 2/2 [00:01<00:00,  1.27it/s]
                   all         88        132       0.96       0.97      0.985
0.823
          trafficlight         88         19      0.894       0.89      0.956
0.626
                  stop         88         10      0.972          1      0.995
0.923
            speedlimit         88         81      0.972          1      0.995
0.906
             crosswalk         88         22          1      0.989      0.995
0.835
Results saved to runs/train/yolo_road_det3
```

[43]:
```python
model_name = "/content/yolov5/runs/train/yolo_road_det3/weights/best.pt"
test_model = torch.hub.load("ultralytics/yolov5", 'custom', model_name)
test_model.conf = 0.25  # confidence threshold (0-1)
test_model.iou = 0.45
test_model.eval()

test_path = "/content/RoadSignDetectionDataset/"
test_files = glob.glob(test_path + "/images/test/*")
labels = ["trafficlight", "stop", "speedlimit", "crosswalk"]

for files in test_files:
  test_image = cv2.imread(files)
  file_basename = os.path.basename(files)
  print (file_basename)
  txt_name = file_basename[:file_basename.rfind(".")] + ".txt"
  txt_file = open(test_path + "/labels/test/" + txt_name, "r")
  data = txt_file.read()
  data_into_list = data.split("\n")
  #print(data_into_list)

  results = test_model(test_image, size=640)
  results_df = results.pandas().xyxy
  print (results_df[0].name)
```

```
  print("\n")
```

```
Using cache found in /root/.cache/torch/hub/ultralytics_yolov5_master
YOLOv5  2022-10-6 Python-3.7.14 torch-1.12.1+cu113 CUDA:0 (Tesla
V100-SXM2-16GB, 16160MiB)

Fusing layers…
YOLOv5s summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs
Adding AutoShape…
```

```
road113.png
0    speedlimit
Name: name, dtype: object


road801.png
0    speedlimit
Name: name, dtype: object


road486.png
0      speedlimit
1    trafficlight
Name: name, dtype: object


road385.png
0    speedlimit
Name: name, dtype: object


road679.png
0    speedlimit
Name: name, dtype: object


road360.png
0    speedlimit
Name: name, dtype: object


road599.png
0    speedlimit
Name: name, dtype: object


road563.png
```

```
0    speedlimit
1     crosswalk
Name: name, dtype: object


road731.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road418.png
0    speedlimit
Name: name, dtype: object


road316.png
0    speedlimit
1    speedlimit
2     crosswalk
Name: name, dtype: object


road709.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road80.png
0    stop
Name: name, dtype: object


road50.png
0    trafficlight
Name: name, dtype: object


road809.png
0    speedlimit
Name: name, dtype: object


road403.png
0    speedlimit
Name: name, dtype: object
```

```
road590.png
0    speedlimit
Name: name, dtype: object


road337.png
0    speedlimit
Name: name, dtype: object


road803.png
0    speedlimit
Name: name, dtype: object


road445.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road417.png
0    speedlimit
Name: name, dtype: object


road661.png
0    speedlimit
1          stop
Name: name, dtype: object


road600.png
0    speedlimit
1          stop
Name: name, dtype: object


road206.png
0    speedlimit
Name: name, dtype: object


road18.png
0    trafficlight
Name: name, dtype: object
```

```
road129.png
0       crosswalk
1    trafficlight
Name: name, dtype: object


road796.png
0    speedlimit
Name: name, dtype: object


road543.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road854.png
0    speedlimit
Name: name, dtype: object


road819.png
0            stop
1    trafficlight
2    trafficlight
Name: name, dtype: object


road321.png
0    speedlimit
1     crosswalk
2          stop
Name: name, dtype: object


road433.png
0    speedlimit
1          stop
Name: name, dtype: object


road367.png
0    speedlimit
Name: name, dtype: object
```

```
road67.png
0    stop
Name: name, dtype: object


road37.png
0    trafficlight
Name: name, dtype: object


road174.png
0    speedlimit
Name: name, dtype: object


road356.png
0    stop
Name: name, dtype: object


road199.png
0    speedlimit
Name: name, dtype: object


road494.png
0    speedlimit
Name: name, dtype: object


road408.png
0    speedlimit
Name: name, dtype: object


road315.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road293.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road804.png
```

```
0    speedlimit
Name: name, dtype: object


road318.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road764.png
0    speedlimit
Name: name, dtype: object


road91.png
0          stop
1    speedlimit
Name: name, dtype: object


road267.png
0    speedlimit
Name: name, dtype: object


road667.png
0    speedlimit
Name: name, dtype: object


road142.png
0    crosswalk
Name: name, dtype: object


road564.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road160.png
0         stop
1    crosswalk
Name: name, dtype: object
```

```
road665.png
0    speedlimit
Name: name, dtype: object


road672.png
0    speedlimit
1          stop
Name: name, dtype: object


road498.png
0    speedlimit
Name: name, dtype: object


road183.png
0       crosswalk
1       crosswalk
2    trafficlight
Name: name, dtype: object


road3.png
0    trafficlight
1    trafficlight
Name: name, dtype: object


road558.png
0    speedlimit
Name: name, dtype: object


road643.png
0    speedlimit
Name: name, dtype: object


road695.png
0    speedlimit
1    speedlimit
2          stop
Name: name, dtype: object


road261.png
0    speedlimit
```

```
Name: name, dtype: object


road609.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road789.png
0    speedlimit
Name: name, dtype: object


road490.png
0    speedlimit
Name: name, dtype: object


road328.png
0    speedlimit
Name: name, dtype: object


road164.png
0    trafficlight
Name: name, dtype: object


road43.png
0    trafficlight
1    trafficlight
2    trafficlight
3    trafficlight
4    trafficlight
5    trafficlight
6    trafficlight
7    trafficlight
8    trafficlight
Name: name, dtype: object


road617.png
0    speedlimit
Name: name, dtype: object


road157.png
```

```
0    speedlimit
Name: name, dtype: object


road143.png
0    crosswalk
Name: name, dtype: object


road841.png
0    speedlimit
1     crosswalk
Name: name, dtype: object


road194.png
0       crosswalk
1    trafficlight
Name: name, dtype: object


road47.png
0    trafficlight
Name: name, dtype: object


road96.png
0    stop
Name: name, dtype: object


road550.png
0    speedlimit
Name: name, dtype: object


road748.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road784.png
0    speedlimit
1     crosswalk
Name: name, dtype: object
```

```
road640.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road721.png
0    speedlimit
Name: name, dtype: object


road492.png
0    speedlimit
Name: name, dtype: object


road100.png
0    speedlimit
Name: name, dtype: object


road712.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road140.png
0    crosswalk
Name: name, dtype: object


road730.png
0    speedlimit
1    speedlimit
Name: name, dtype: object


road431.png
0    speedlimit
Name: name, dtype: object


road547.png
0    speedlimit
1     crosswalk
2     crosswalk
Name: name, dtype: object
```

```
road33.png
0    trafficlight
Name: name, dtype: object


road175.png
0    speedlimit
Name: name, dtype: object


road625.png
0    speedlimit
Name: name, dtype: object
```

[42]:
```
!python val.py --weights runs/train/yolo_road_det3/weights/best.pt --data␣
↪road_sign_data.yaml --task test --name yolo_det
```

```
val: data=/content/yolov5/data/road_sign_data.yaml,
weights=['runs/train/yolo_road_det3/weights/best.pt'], batch_size=32, imgsz=640,
conf_thres=0.001, iou_thres=0.6, max_det=300, task=test, device=, workers=8,
single_cls=False, augment=False, verbose=False, save_txt=False,
save_hybrid=False, save_conf=False, save_json=False, project=runs/val,
name=yolo_det, exist_ok=False, half=False, dnn=False
YOLOv5  v6.2-186-g7f097dd Python-3.7.14 torch-1.12.1+cu113 CUDA:0 (Tesla
V100-SXM2-16GB, 16160MiB)

Fusing layers…
YOLOv5s summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs
test: Scanning '/content/RoadSignDetectionDataset/labels/test'
images and labels…88 found, 0 missing, 0 empty, 0 corrupt: 100% 88/88
[00:00<00:00, 2895.35it/s]
test: New cache created:
/content/RoadSignDetectionDataset/labels/test.cache
                 Class     Images  Instances          P          R      mAP50
mAP50-95: 100% 3/3 [00:02<00:00,  1.14it/s]
                   all         88        126      0.993      0.901      0.952
0.795
          trafficlight         88         20          1      0.647      0.828
0.554
                  stop         88          7      0.986          1      0.995
0.889
            speedlimit         88         76      0.994          1      0.995
0.9
             crosswalk         88         23      0.992      0.957       0.99
```

```
0.837
Speed: 0.3ms pre-process, 2.0ms inference, 0.9ms NMS per image at shape (32, 3,
640, 640)
Results saved to runs/val/yolo_det2
```

[ ]: