

```
!pip install ultralytics
```

```
Collecting ultralytics
```

```
  Downloading ultralytics-8.2.58-py3-none-any.whl (802 kB)
```

```
802.7/802.7 kB 9.4 MB/s eta
```

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0:00:00
```

```
Requirement already satisfied: numpy<2.0.0,>=1.23.0 in
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```
/usr/local/lib/python3.10/dist-packages (from ultralytics) (1.25.2)
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```
Requirement already satisfied: matplotlib>=3.3.0 in
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```
/usr/local/lib/python3.10/dist-packages (from ultralytics) (3.7.1)
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Requirement already satisfied: opencv-python>=4.6.0 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (4.8.0.76)
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Requirement already satisfied: pillow>=7.1.2 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (9.4.0)
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Requirement already satisfied: pyyaml>=5.3.1 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (6.0.1)
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Requirement already satisfied: requests>=2.23.0 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (2.31.0)
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Requirement already satisfied: scipy>=1.4.1 in
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```
/usr/local/lib/python3.10/dist-packages (from ultralytics) (1.11.4)
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```
Requirement already satisfied: torch>=1.8.0 in
```

```
/usr/local/lib/python3.10/dist-packages (from ultralytics)
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```
(2.3.0+cu121)
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```
Requirement already satisfied: torchvision>=0.9.0 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics)
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```
(0.18.0+cu121)
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Requirement already satisfied: tqdm>=4.64.0 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (4.66.4)
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Requirement already satisfied: psutil in
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```
/usr/local/lib/python3.10/dist-packages (from ultralytics) (5.9.5)
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```
Requirement already satisfied: py-cpuinfo in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (9.0.0)
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```
Requirement already satisfied: pandas>=1.1.4 in
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/usr/local/lib/python3.10/dist-packages (from ultralytics) (2.0.3)
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```
Requirement already satisfied: seaborn>=0.11.0 in
```

```
/usr/local/lib/python3.10/dist-packages (from ultralytics) (0.13.1)
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```
Collecting ultralytics-thop>=2.0.0 (from ultralytics)
```

```
  Downloading ultralytics_thop-2.0.0-py3-none-any.whl (25 kB)
```

```
Requirement already satisfied: contourpy>=1.0.1 in
```

```
/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-
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```
>ultralytics) (1.2.1)
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Requirement already satisfied: cycler>=0.10 in
```

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/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-
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>ultralytics) (0.12.1)
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```
Requirement already satisfied: fonttools>=4.22.0 in
```

```
/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-
```

```
>ultralytics) (4.53.1)
```

```
Requirement already satisfied: kiwisolver>=1.0.1 in
```

```
/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-
```

```
>ultralytics) (1.4.5)
```

Requirement already satisfied: packaging>=20.0 in  
/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-  
>ultralytics) (24.1)

Requirement already satisfied: pyparsing>=2.3.1 in  
/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-  
>ultralytics) (3.1.2)

Requirement already satisfied: python-dateutil>=2.7 in  
/usr/local/lib/python3.10/dist-packages (from matplotlib>=3.3.0-  
>ultralytics) (2.8.2)

Requirement already satisfied: pytz>=2020.1 in  
/usr/local/lib/python3.10/dist-packages (from pandas>=1.1.4-  
>ultralytics) (2023.4)

Requirement already satisfied: tzdata>=2022.1 in  
/usr/local/lib/python3.10/dist-packages (from pandas>=1.1.4-  
>ultralytics) (2024.1)

Requirement already satisfied: charset-normalizer<4,>=2 in  
/usr/local/lib/python3.10/dist-packages (from requests>=2.23.0-  
>ultralytics) (3.3.2)

Requirement already satisfied: idna<4,>=2.5 in  
/usr/local/lib/python3.10/dist-packages (from requests>=2.23.0-  
>ultralytics) (3.7)

Requirement already satisfied: urllib3<3,>=1.21.1 in  
/usr/local/lib/python3.10/dist-packages (from requests>=2.23.0-  
>ultralytics) (2.0.7)

Requirement already satisfied: certifi>=2017.4.17 in  
/usr/local/lib/python3.10/dist-packages (from requests>=2.23.0-  
>ultralytics) (2024.7.4)

Requirement already satisfied: filelock in  
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-  
>ultralytics) (3.15.4)

Requirement already satisfied: typing-extensions>=4.8.0 in  
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-  
>ultralytics) (4.12.2)

Requirement already satisfied: sympy in  
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-  
>ultralytics) (1.13.0)

Requirement already satisfied: networkx in  
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-  
>ultralytics) (3.3)

Requirement already satisfied: jinja2 in  
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-  
>ultralytics) (3.1.4)

Requirement already satisfied: fsspec in  
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-  
>ultralytics) (2023.6.0)

Collecting nvidia-cuda-nvrtc-cu12==12.1.105 (from torch>=1.8.0-  
>ultralytics)

Using cached nvidia\_cuda\_nvrtc\_cu12-12.1.105-py3-none-  
manylinux1\_x86\_64.whl (23.7 MB)

```

Collecting nvidia-cuda-runtime-cu12==12.1.105 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cuda_runtime_cu12-12.1.105-py3-none-
manylinux1_x86_64.whl (823 kB)
Collecting nvidia-cuda-cupti-cu12==12.1.105 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cuda_cupti_cu12-12.1.105-py3-none-
manylinux1_x86_64.whl (14.1 MB)
Collecting nvidia-cudnn-cu12==8.9.2.26 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cudnn_cu12-8.9.2.26-py3-none-
manylinux1_x86_64.whl (731.7 MB)
Collecting nvidia-cublas-cu12==12.1.3.1 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cublas_cu12-12.1.3.1-py3-none-
manylinux1_x86_64.whl (410.6 MB)
Collecting nvidia-cufft-cu12==11.0.2.54 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cufft_cu12-11.0.2.54-py3-none-
manylinux1_x86_64.whl (121.6 MB)
Collecting nvidia-curand-cu12==10.3.2.106 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_curand_cu12-10.3.2.106-py3-none-
manylinux1_x86_64.whl (56.5 MB)
Collecting nvidia-cusolver-cu12==11.4.5.107 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cusolver_cu12-11.4.5.107-py3-none-
manylinux1_x86_64.whl (124.2 MB)
Collecting nvidia-cuspars-cu12==12.1.0.106 (from torch>=1.8.0-
>ultralytics)
  Using cached nvidia_cuspars-cu12-12.1.0.106-py3-none-
manylinux1_x86_64.whl (196.0 MB)
Collecting nvidia-nccl-cu12==2.20.5 (from torch>=1.8.0->ultralytics)
  Using cached nvidia_nccl_cu12-2.20.5-py3-none-
manylinux2014_x86_64.whl (176.2 MB)
Collecting nvidia-nvtx-cu12==12.1.105 (from torch>=1.8.0->ultralytics)
  Using cached nvidia_nvtx_cu12-12.1.105-py3-none-
manylinux1_x86_64.whl (99 kB)
Requirement already satisfied: triton==2.3.0 in
/usr/local/lib/python3.10/dist-packages (from torch>=1.8.0-
>ultralytics) (2.3.0)
Collecting nvidia-nvjitlink-cu12 (from nvidia-cusolver-
cu12==11.4.5.107->torch>=1.8.0->ultralytics)
  Downloading nvidia_nvjitlink_cu12-12.5.82-py3-none-
manylinux2014_x86_64.whl (21.3 MB)
_____ 21.3/21.3 MB 72.9 MB/s eta
0:00:00
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-
packages (from python-dateutil>=2.7->matplotlib>=3.3.0->ultralytics)

```

```
(1.16.0)
Requirement already satisfied: MarkupSafe>=2.0 in
/usr/local/lib/python3.10/dist-packages (from jinja2->torch>=1.8.0-
>ultralalytics) (2.1.5)
Requirement already satisfied: mpmath<1.4,>=1.1.0 in
/usr/local/lib/python3.10/dist-packages (from sympy->torch>=1.8.0-
>ultralalytics) (1.3.0)
Installing collected packages: nvidia-nvtx-cu12, nvidia-nvjitlink-
cu12, nvidia-nccl-cu12, nvidia-curand-cu12, nvidia-cufft-cu12, nvidia-
cuda-runtime-cu12, nvidia-cuda-nvrtc-cu12, nvidia-cuda-cupti-cu12,
nvidia-cublas-cu12, nvidia-cusparse-cu12, nvidia-cudnn-cu12, nvidia-
cusolver-cu12, ultralytics-thop, ultralytics
Successfully installed nvidia-cublas-cu12-12.1.3.1 nvidia-cuda-cupti-
cu12-12.1.105 nvidia-cuda-nvrtc-cu12-12.1.105 nvidia-cuda-runtime-
cu12-12.1.105 nvidia-cudnn-cu12-8.9.2.26 nvidia-cufft-cu12-11.0.2.54
nvidia-curand-cu12-10.3.2.106 nvidia-cusolver-cu12-11.4.5.107 nvidia-
cusparse-cu12-12.1.0.106 nvidia-nccl-cu12-2.20.5 nvidia-nvjitlink-
cu12-12.5.82 nvidia-nvtx-cu12-12.1.105 ultralytics-8.2.58 ultralytics-
thop-2.0.0
```

```
from ultralytics import YOLO
```

```
#coca-cola
```

```
!pip install roboflow
```

```
from roboflow import Roboflow
```

```
rf = Roboflow(api_key="KI88eJaCYI6zBu0oLLvP")
```

```
project = rf.workspace("test01-fr735").project("brands-qv6fs")
```

```
version = project.version(1)
```

```
dataset = version.download("yolov8")
```

```
Requirement already satisfied: roboflow in
/usr/local/lib/python3.10/dist-packages (1.1.34)
```

```
Requirement already satisfied: certifi in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2024.7.4)
```

```
Requirement already satisfied: chardet==4.0.0 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (4.0.0)
```

```
Requirement already satisfied: idna==3.7 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (3.7)
```

```
Requirement already satisfied: cycler in
/usr/local/lib/python3.10/dist-packages (from roboflow) (0.12.1)
```

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Requirement already satisfied: kiwisolver>=1.3.1 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.4.5)
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Requirement already satisfied: matplotlib in
/usr/local/lib/python3.10/dist-packages (from roboflow) (3.7.1)
```

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Requirement already satisfied: numpy>=1.18.5 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.25.2)
```

```
Requirement already satisfied: opencv-python-headless==4.10.0.84 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (4.10.0.84)
```

```
Requirement already satisfied: Pillow>=7.1.2 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (9.4.0)
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```
Requirement already satisfied: python-dateutil in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2.8.2)
Requirement already satisfied: python-dotenv in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.0.1)
Requirement already satisfied: requests in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2.31.0)
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-
packages (from roboflow) (1.16.0)
Requirement already satisfied: urllib3>=1.26.6 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2.0.7)
Requirement already satisfied: tqdm>=4.41.0 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (4.66.4)
Requirement already satisfied: PyYAML>=5.3.1 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (6.0.1)
Requirement already satisfied: requests-toolbelt in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.0.0)
Requirement already satisfied: python-magic in
/usr/local/lib/python3.10/dist-packages (from roboflow) (0.4.27)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(1.2.1)
Requirement already satisfied: fonttools>=4.22.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(4.53.1)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(24.1)
Requirement already satisfied: pyparsing>=2.3.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(3.1.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from requests->roboflow)
(3.3.2)
loading Roboflow workspace...
loading Roboflow project...
Dependency ultralytics==8.0.196 is required but found version=8.2.58,
to fix: `pip install ultralytics==8.0.196`
```

```
Downloading Dataset Version Zip in Brands-1 to yolov8:: 100%|
██████████| 36391/36391 [00:03<00:00, 11114.83it/s]
```

```
Extracting Dataset Version Zip to Brands-1 in yolov8:: 100%|
██████████| 1348/1348 [00:00<00:00, 6378.74it/s]
```

```
#Counting the total number of images of Coca-cola
import os
```

```

def count(directory):
    return len([name for name in os.listdir(directory) if
os.path.isfile(os.path.join(directory, name))])

# Example directories
train_images_dir = '/content/Brands-1/train/images'
test_images_dir = '/content/Brands-1/test/images'
valid_images_dir = '/content/Brands-1/valid/images'

# Counting files
num_train_images = count(train_images_dir)
num_test_images = count(test_images_dir)
num_valid_images = count(valid_images_dir)

print(f'Number of train images: {num_train_images}')
print(f'Number of test images: {num_test_images}')
print(f'Number of valid images: {num_valid_images}')

Number of train images: 465
Number of test images: 103
Number of valid images: 100

#pepsi
!pip install roboflow
from roboflow import Roboflow
rf = Roboflow(api_key="ar6YXxo2p5rvvXWb99V5")
project = rf.workspace("abhijeety").project("brand-detection-s4rpc")
version = project.version(2)
dataset = version.download("yolov8")

Requirement already satisfied: roboflow in
/usr/local/lib/python3.10/dist-packages (1.1.34)
Requirement already satisfied: certifi in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2024.7.4)
Requirement already satisfied: chardet==4.0.0 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (4.0.0)
Requirement already satisfied: idna==3.7 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (3.7)
Requirement already satisfied: cycler in
/usr/local/lib/python3.10/dist-packages (from roboflow) (0.12.1)
Requirement already satisfied: kiwisolver>=1.3.1 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.4.5)
Requirement already satisfied: matplotlib in
/usr/local/lib/python3.10/dist-packages (from roboflow) (3.7.1)
Requirement already satisfied: numpy>=1.18.5 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.25.2)
Requirement already satisfied: opencv-python-headless==4.10.0.84 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (4.10.0.84)
Requirement already satisfied: Pillow>=7.1.2 in

```

```
/usr/local/lib/python3.10/dist-packages (from roboflow) (9.4.0)
Requirement already satisfied: python-dateutil in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2.8.2)
Requirement already satisfied: python-dotenv in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.0.1)
Requirement already satisfied: requests in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2.31.0)
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-
packages (from roboflow) (1.16.0)
Requirement already satisfied: urllib3>=1.26.6 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (2.0.7)
Requirement already satisfied: tqdm>=4.41.0 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (4.66.4)
Requirement already satisfied: PyYAML>=5.3.1 in
/usr/local/lib/python3.10/dist-packages (from roboflow) (6.0.1)
Requirement already satisfied: requests-toolbelt in
/usr/local/lib/python3.10/dist-packages (from roboflow) (1.0.0)
Requirement already satisfied: python-magic in
/usr/local/lib/python3.10/dist-packages (from roboflow) (0.4.27)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(1.2.1)
Requirement already satisfied: fonttools>=4.22.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(4.53.1)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(24.1)
Requirement already satisfied: pyparsing>=2.3.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib->roboflow)
(3.1.2)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from requests->roboflow)
(3.3.2)
loading Roboflow workspace...
loading Roboflow project...
Dependency ultralytics==8.0.196 is required but found version=8.2.58,
to fix: `pip install ultralytics==8.0.196`

Downloading Dataset Version Zip in Brand-Detection-2 to yolov8:: 100%|
██████████| 73650/73650 [00:05<00:00, 14062.27it/s]

Extracting Dataset Version Zip to Brand-Detection-2 in yolov8:: 100%|
██████████| 2556/2556 [00:00<00:00, 5980.60it/s]

#Counting the total number of images of pepsi
import os
```



```

def count(directory):
    return len([name for name in os.listdir(directory) if
os.path.isfile(os.path.join(directory, name))])

# Example directories
train_images_dir = '/content/Brand-Detection-2/train/images'
test_images_dir = '/content/Brand-Detection-2/test/images'
valid_images_dir = '/content/Brand-Detection-2/valid/images'

# Counting files
num_train_images = count(train_images_dir)
num_test_images = count(test_images_dir)
num_valid_images = count(valid_images_dir)

print(f'Number of train images: {num_train_images}')
print(f'Number of test images: {num_test_images}')
print(f'Number of valid images: {num_valid_images}')

Number of train images: 1001
Number of test images: 9
Number of valid images: 262

#As both datasets downloaded as seperate dataset setting one dataset
with one class as 1
import os
def change_class_id(directory, old_id=0, new_id=1):
    for filename in os.listdir(directory):
        if filename.endswith('.txt'):
            filepath = os.path.join(directory, filename)
            with open(filepath, 'r') as file:
                lines = file.readlines()

                new_lines = []
                for line in lines:
                    parts = line.strip().split()
                    if parts[0] == str(old_id):
                        parts[0] = str(new_id)
                    new_lines.append(' '.join(parts))

                with open(filepath, 'w') as file:
                    file.write('\n'.join(new_lines))
                print(f'Updated {filename}')

label_files_directory = '/content/Brands-1/train/labels'
change_class_id(label_files_directory)

Updated 530430290_jpg.rf.9a7c90bda59f8c0b5ca02567b8087b0a.txt
Updated shiloh-dankert-8XqDg00Zxq4-

```



unsplash\_jpg.rf.c04199dd5314cabcc2bf9b7f44ffb59c.txt  
Updated Image\_37\_png.rf.80562b698a3025c4e1f181fb2da0a241.txt  
Updated Image\_23\_jpg.rf.6492fa694bdd14930165bca13d8527f3.txt  
Updated Image\_104\_jpg.rf.417bbb754f1caa880b07a6aee75bd551.txt  
Updated Image\_168\_jpg.rf.14a08b678e6f06b7e68062caa3364577.txt  
Updated artem-beliaikin-jlWoIsNTKjA-  
unsplash\_jpg.rf.d75cde52a95097098353bc5cbee146ff.txt  
Updated 1529201482\_jpg.rf.0ec63f558e1b03ef0231f23e48bd6137.txt  
Updated gabriel-oppenheimer-xwRCJWbIN0k-  
unsplash\_jpg.rf.0f209817176777bd5f7f6c69a6d305bb.txt  
Updated Image\_65\_jpg.rf.49f90bb38c1f0a534338adcea53b86b4.txt  
Updated Image\_76\_jpg.rf.486a4833d6e080ecd498f2e3d732a282.txt  
Updated Image\_30\_jpg.rf.75aa1a5eefdb680c327e4081658ed93a.txt  
Updated laura-chouette-55xBt28R6yc-  
unsplash\_jpg.rf.fa915fa249270e6651c2b80042e019d2.txt  
Updated Image\_39\_jpg.rf.cbae858ec4352d50c0e2d3845d5d7f82.txt  
Updated caitlyn-hastings-EMvaZsixiC8-  
unsplash\_jpg.rf.9882c11144856bbfbb6648a7ecd8ec33.txt  
Updated Image\_120\_jpg.rf.a22914afbe5e7147622909e75eacabc1.txt  
Updated nathan-dumlao-vRDsrw0l\_G4-  
unsplash\_jpg.rf.eb52e858ab152a6d53b964e13e3e5837.txt  
Updated Image\_74\_jpg.rf.13045375561f696a6a7adeeb55e13708.txt  
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unsplash_jpg.rf.aae4fd666fa433fb9d66dec4a4d1c9ad.txt
Updated danial-shoorangiz-GbXR2dL9yE0-
unsplash_jpg.rf.9686679f3166c7db36e1ded63996b166.txt
Updated Image_58_jpg.rf.c69d0d0597de734726160a9514588bd9.txt
Updated Image_68_png.rf.782244b80ad4aa9e56462bfad5ee8262.txt
Updated 4816334297_jpg.rf.599b5329f639f3b5d2b8ddf13f49e1eb.txt
Updated Image_111_jpg.rf.47191aa30f751bc4dbba9a06e0942628.txt
Updated 19102117_jpg.rf.8fe05dec27bae54c16bd5a5dbe1962c.txt
Updated Image_145_jpg.rf.e88a4ea47f958b1dd1e868a52765f8ab.txt
Updated Image_35_jpg.rf.8516f88e5cdadb3cb511c259388e4f5f.txt
Updated Image_103_jpg.rf.9fe8660fe96b6a636a85271ec0f7c7ef.txt
Updated Image_129_jpg.rf.947c5078009d991b45cdebef0334ffb5a.txt
Updated Image_70_jpg.rf.ed377c84ecbe0dc72ef757a171f9882c.txt
Updated Image_57_jpg.rf.6a304f318e580d4e6d0c153aa6202046.txt
Updated Image_119_jpg.rf.03b663cc60b3eafd41760916de1aa45b.txt
```

*#Shifting one coke dataset to pepsi*

```
import shutil
import os
```

*# Define source and destination paths*

```
source_train_images = '/content/Brands-1/train/images'
source_test_images = '/content/Brands-1/test/images'
source_valid_images = '/content/Brands-1/valid/images'
```

```
source_train_labels = '/content/Brands-1/train/labels'
source_test_labels = '/content/Brands-1/test/labels'
source_valid_labels = '/content/Brands-1/valid/labels'
```

```
destination_train_images = '/content/Brand-Detection-2/train/images'
destination_test_images = '/content/Brand-Detection-2/test/images'
destination_valid_images = '/content/Brand-Detection-2/valid/images'
```

```
destination_train_labels = '/content/Brand-Detection-2/train/labels'
destination_test_labels = '/content/Brand-Detection-2/test/labels'
destination_valid_labels = '/content/Brand-Detection-2/valid/labels'
```

*# Ensure the destination directories exist*

```
os.makedirs(destination_train_images, exist_ok=True)
os.makedirs(destination_test_images, exist_ok=True)
os.makedirs(destination_valid_images, exist_ok=True)
```

```
os.makedirs(destination_train_labels, exist_ok=True)
os.makedirs(destination_test_labels, exist_ok=True)
os.makedirs(destination_valid_labels, exist_ok=True)
```

```

# Function to transfer files
def transfer_files(src_dir, dest_dir):
    for filename in os.listdir(src_dir):
        source_file = os.path.join(src_dir, filename)
        destination_file = os.path.join(dest_dir, filename)
        shutil.move(source_file, destination_file)

# Transfer train images
transfer_files(source_train_images, destination_train_images)

# Transfer test images
transfer_files(source_test_images, destination_test_images)

# Transfer valid images
transfer_files(source_valid_images, destination_valid_images)

# Transfer train labels
transfer_files(source_train_labels, destination_train_labels)

# Transfer test labels
transfer_files(source_test_labels, destination_test_labels)

# Transfer valid labels
transfer_files(source_valid_labels, destination_valid_labels)

print("Files transferred successfully!")

Files transferred successfully!

#Counting the total number of images
import os

def count(directory):
    return len([name for name in os.listdir(directory) if
os.path.isfile(os.path.join(directory, name))])

# Example directories
train_images_dir = '/content/Brand-Detection-2/train/images'
test_images_dir = '/content/Brand-Detection-2/test/images'
valid_images_dir = '/content/Brand-Detection-2/valid/images'

# Counting files
num_train_images = count(train_images_dir)
num_test_images = count(test_images_dir)
num_valid_images = count(valid_images_dir)

print(f'Number of train images: {num_train_images}')
print(f'Number of test images: {num_test_images}')
print(f'Number of valid images: {num_valid_images}')

```

Number of train images: 1466  
Number of test images: 112  
Number of valid images: 362

### #Training

!yolo task=detect mode=train model=yolov8n.pt data=/content/Brand-Detection-2/data.yaml epochs=100

Downloading

<https://github.com/ultralytics/assets/releases/download/v8.2.0/yolov8n.pt> to 'yolov8n.pt'...

100% 6.25M/6.25M [00:00<00:00, 244MB/s]

Ultralytics YOLOv8.2.58 Python-3.10.12 torch-2.3.0+cu121 CUDA:0 (Tesla T4, 15102MiB)

engine/trainer: task=detect, mode=train, model=yolov8n.pt, data=/content/Brand-Detection-2/data.yaml, epochs=100, time=None, patience=100, batch=16, imgsz=640, save=True, save\_period=-1, cache=False, device=None, workers=8, project=None, name=train, exist\_ok=False, pretrained=True, optimizer=auto, verbose=True, seed=0, deterministic=True, single\_cls=False, rect=False, cos\_lr=False, close\_mosaic=10, resume=False, amp=True, fraction=1.0, profile=False, freeze=None, multi\_scale=False, overlap\_mask=True, mask\_ratio=4, dropout=0.0, val=True, split=val, save\_json=False, save\_hybrid=False, conf=None, iou=0.7, max\_det=300, half=False, dnn=False, plots=True, source=None, vid\_stride=1, stream\_buffer=False, visualize=False, augment=False, agnostic\_nms=False, classes=None, retina\_masks=False, embed=None, show=False, save\_frames=False, save\_txt=False, save\_conf=False, save\_crop=False, show\_labels=True, show\_conf=True, show\_boxes=True, line\_width=None, format=torchscript, keras=False, optimize=False, int8=False, dynamic=False, simplify=False, opset=None, workspace=4, nms=False, lr0=0.01, lrf=0.01, momentum=0.937, weight\_decay=0.0005, warmup\_epochs=3.0, warmup\_momentum=0.8, warmup\_bias\_lr=0.1, box=7.5, cls=0.5, dfl=1.5, pose=12.0, kobj=1.0, label\_smoothing=0.0, nbs=64, hsv\_h=0.015, hsv\_s=0.7, hsv\_v=0.4, degrees=0.0, translate=0.1, scale=0.5, shear=0.0, perspective=0.0, flipud=0.0, fliplr=0.5, bgr=0.0, mosaic=1.0, mixup=0.0, copy\_paste=0.0, auto\_augment=randaugment, erasing=0.4, crop\_fraction=1.0, cfg=None, tracker=botsort.yaml, save\_dir=runs/detect/train

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

100% 755k/755k [00:00<00:00, 75.4MB/s]

Overriding model.yaml nc=80 with nc=2

	from	n	params	module
arguments				
0	-1	1	464	ultralytics.nn.modules.conv.Conv
[3, 16, 3, 2]				
1	-1	1	4672	ultralytics.nn.modules.conv.Conv
[16, 32, 3, 2]				



2	-1 1	7360	ultralytics.nn.modules.block.C2f
[32, 32, 1, True]			
3	-1 1	18560	ultralytics.nn.modules.conv.Conv
[32, 64, 3, 2]			
4	-1 2	49664	ultralytics.nn.modules.block.C2f
[64, 64, 2, True]			
5	-1 1	73984	ultralytics.nn.modules.conv.Conv
[64, 128, 3, 2]			
6	-1 2	197632	ultralytics.nn.modules.block.C2f
[128, 128, 2, True]			
7	-1 1	295424	ultralytics.nn.modules.conv.Conv
[128, 256, 3, 2]			
8	-1 1	460288	ultralytics.nn.modules.block.C2f
[256, 256, 1, True]			
9	-1 1	164608	
ultralytics.nn.modules.block.SPPF			[256, 256, 5]
10	-1 1	0	
torch.nn.modules.upsampling.Upsample			[None, 2, 'nearest']
11	[-1, 6] 1	0	
ultralytics.nn.modules.conv.Concat			[1]
12	-1 1	148224	ultralytics.nn.modules.block.C2f
[384, 128, 1]			
13	-1 1	0	
torch.nn.modules.upsampling.Upsample			[None, 2, 'nearest']
14	[-1, 4] 1	0	
ultralytics.nn.modules.conv.Concat			[1]
15	-1 1	37248	ultralytics.nn.modules.block.C2f
[192, 64, 1]			
16	-1 1	36992	ultralytics.nn.modules.conv.Conv
[64, 64, 3, 2]			
17	[-1, 12] 1	0	
ultralytics.nn.modules.conv.Concat			[1]
18	-1 1	123648	ultralytics.nn.modules.block.C2f
[192, 128, 1]			
19	-1 1	147712	ultralytics.nn.modules.conv.Conv
[128, 128, 3, 2]			
20	[-1, 9] 1	0	
ultralytics.nn.modules.conv.Concat			[1]
21	-1 1	493056	ultralytics.nn.modules.block.C2f
[384, 256, 1]			
22	[15, 18, 21] 1	751702	
ultralytics.nn.modules.head.Detect			[2, [64, 128, 256]]

Model summary: 225 layers, 3,011,238 parameters, 3,011,222 gradients, 8.2 GFLOPs

Transferred 319/355 items from pretrained weights

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

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

AMP: running Automatic Mixed Precision (AMP) checks with YOLOv8n...

/usr/local/lib/python3.10/dist-packages/torch/nn/modules/conv.py:456:

UserWarning: Plan failed with a cudnnException:

CUDNN\_BACKEND\_EXECUTION\_PLAN\_DESCRIPTOR: cudnnFinalize Descriptor

Failed cudnn\_status: CUDNN\_STATUS\_NOT\_SUPPORTED (Triggered internally at ../aten/src/ATen/native/cudnn/Conv\_v8.cpp:919.)

return F.conv2d(input, weight, bias, self.stride,

AMP: checks passed

train: Scanning /content/Brand-Detection-2/train/labels... 1466

images, 37 backgrounds, 0 corrupt: 100% 1466/1466 [00:00<00:00, 2087.10it/s]

train: New cache created:

/content/Brand-Detection-2/train/labels.cache

augmentations: 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))

/usr/lib/python3.10/multiprocessing/popen\_fork.py:66: RuntimeWarning:

os.fork() was called. os.fork() is incompatible with multithreaded code, and JAX is multithreaded, so this will likely lead to a deadlock.

self.pid = os.fork()

val: Scanning /content/Brand-Detection-2/valid/labels... 362 images,

15 backgrounds, 0 corrupt: 100% 362/362 [00:00<00:00, 1564.87it/s]

val: New cache created: /content/Brand-Detection-2/valid/labels.cache

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

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

optimizer: AdamW(lr=0.001667, momentum=0.9) with parameter groups 57

weight(decay=0.0), 64 weight(decay=0.0005), 63 bias(decay=0.0)

TensorBoard: model graph visualization added

Image sizes 640 train, 640 val

Using 2 dataloader workers

Logging results to runs/detect/train

Starting training for 100 epochs...

	Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size	1/100	2.97G	1.393	2.403	1.186	31
640:	100% 92/92	[00:39<00:00,	2.33it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:05<00:00,	2.08it/s]		

0.412	0.276	all	362	750	0.554	0.399
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	2/100	2.69G	1.38	1.709	1.198	145
100%	92/92	[00:34<00:00, 2.66it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:06<00:00, 1.97it/s]			
0.535	0.319	all	362	750	0.625	0.541
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	3/100	2.86G	1.392	1.519	1.206	25
100%	92/92	[00:32<00:00, 2.84it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:06<00:00, 1.82it/s]			
0.581	0.367	all	362	750	0.685	0.573
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	4/100	2.87G	1.344	1.353	1.208	25
100%	92/92	[00:31<00:00, 2.96it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:07<00:00, 1.71it/s]			
0.546	0.36	all	362	750	0.739	0.504
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	5/100	4.02G	1.368	1.25	1.193	29
100%	92/92	[00:33<00:00, 2.76it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:05<00:00, 2.01it/s]			
0.596	0.386	all	362	750	0.724	0.563
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	6/100	3.18G	1.346	1.167	1.166	25
100%	92/92	[00:33<00:00, 2.74it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:05<00:00, 2.30it/s]			
0.645	0.435	all	362	750	0.821	0.595
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances

7/100	2.9G	1.323	1.118	1.169	42
640: 100%	92/92	[00:34<00:00, 2.67it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:04<00:00, 2.59it/s]		
	all	362	750	0.783	0.633
0.649	0.426				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size	8/100	2.77G	1.319	1.13	68
640: 100%	92/92	[00:34<00:00, 2.70it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.09it/s]		
	all	362	750	0.781	0.612
0.631	0.42				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size	9/100	2.6G	1.274	1.075	76
640: 100%	92/92	[00:34<00:00, 2.65it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.12it/s]		
	all	362	750	0.801	0.619
0.657	0.44				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size	10/100	2.99G	1.284	1.037	28
640: 100%	92/92	[00:34<00:00, 2.65it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.27it/s]		
	all	362	750	0.829	0.615
0.643	0.433				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size	11/100	3.07G	1.255	0.9751	37
640: 100%	92/92	[00:35<00:00, 2.59it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.30it/s]		
	all	362	750	0.817	0.639
0.657	0.432				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size	12/100	3.08G	1.258	0.964	35
640: 100%	92/92	[00:34<00:00, 2.64it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.27it/s]		
	all	362	750	0.805	0.631

```

0.675      0.472
Epoch      GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size
13/100      3.11G      1.238      0.9202      1.113      59
640: 100% 92/92 [00:34<00:00, 2.68it/s]
Class      Images    Instances    Box(P      R
mAP50      mAP50-95): 100% 12/12 [00:04<00:00, 2.66it/s]
all        362        750        0.816      0.639
0.662      0.451

```

```

Epoch      GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size
14/100      3.1G       1.258      0.9208      1.125      46
640: 100% 92/92 [00:34<00:00, 2.71it/s]
Class      Images    Instances    Box(P      R
mAP50      mAP50-95): 100% 12/12 [00:06<00:00, 1.87it/s]
all        362        750        0.834      0.63
0.656      0.43

```

```

Epoch      GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size
15/100      2.97G      1.213      0.9362      1.106      15
640: 100% 92/92 [00:32<00:00, 2.82it/s]
Class      Images    Instances    Box(P      R
mAP50      mAP50-95): 100% 12/12 [00:06<00:00, 1.88it/s]
all        362        750        0.8      0.643
0.676      0.462

```

```

Epoch      GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size
16/100      2.78G      1.225      0.9106      1.128      21
640: 100% 92/92 [00:34<00:00, 2.69it/s]
Class      Images    Instances    Box(P      R
mAP50      mAP50-95): 100% 12/12 [00:05<00:00, 2.16it/s]
all        362        750        0.806      0.649
0.668      0.46

```

```

Epoch      GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size
17/100      2.95G      1.222      0.9046      1.12      43
640: 100% 92/92 [00:34<00:00, 2.65it/s]
Class      Images    Instances    Box(P      R
mAP50      mAP50-95): 100% 12/12 [00:04<00:00, 2.92it/s]
all        362        750        0.756      0.631
0.647      0.452

```

```

Epoch      GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size
18/100      2.93G      1.202      0.8801      1.099      29

```

```

640: 100% 92/92 [00:34<00:00, 2.63it/s]
      Class      Images Instances      Box(P      R
mAP50  mAP50-95): 100% 12/12 [00:04<00:00, 2.94it/s]
      all        362        750        0.839        0.597
0.643        0.451

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      19/100        2.49G        1.177        0.8628        1.105        77
640: 100% 92/92 [00:33<00:00, 2.74it/s]
      Class      Images Instances      Box(P      R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.33it/s]
      all        362        750        0.831        0.647
0.676        0.474

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      20/100        3.17G        1.188        0.8505        1.089        109
640: 100% 92/92 [00:34<00:00, 2.66it/s]
      Class      Images Instances      Box(P      R
mAP50  mAP50-95): 100% 12/12 [00:04<00:00, 2.83it/s]
      all        362        750        0.826        0.655
0.67        0.472

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      21/100        3.15G        1.193        0.845        1.081        27
640: 100% 92/92 [00:34<00:00, 2.66it/s]
      Class      Images Instances      Box(P      R
mAP50  mAP50-95): 100% 12/12 [00:05<00:00, 2.17it/s]
      all        362        750        0.837        0.641
0.677        0.471

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      22/100        2.81G        1.18        0.8387        1.09        186
640: 100% 92/92 [00:32<00:00, 2.85it/s]
      Class      Images Instances      Box(P      R
mAP50  mAP50-95): 100% 12/12 [00:06<00:00, 1.93it/s]
      all        362        750        0.823        0.653
0.678        0.484

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      23/100        2.63G        1.178        0.8166        1.088        23
640: 100% 92/92 [00:31<00:00, 2.92it/s]
      Class      Images Instances      Box(P      R
mAP50  mAP50-95): 100% 12/12 [00:06<00:00, 1.73it/s]
      all        362        750        0.823        0.649
0.67        0.458

```

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	24/100	2.8G	1.143	0.8225	1.084	26
640:	100% 92/92	[00:31<00:00, 2.91it/s]				
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:05<00:00, 2.10it/s]		
		all	362	750	0.829	0.635
0.66	0.448					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	25/100	2.85G	1.127	0.7837	1.074	65
640:	100% 92/92	[00:33<00:00, 2.72it/s]				
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:04<00:00, 2.48it/s]		
		all	362	750	0.846	0.637
0.673	0.464					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	26/100	2.99G	1.198	0.7987	1.079	84
640:	100% 92/92	[00:34<00:00, 2.67it/s]				
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.03it/s]		
		all	362	750	0.829	0.657
0.708	0.491					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	27/100	2.71G	1.171	0.805	1.091	18
640:	100% 92/92	[00:35<00:00, 2.62it/s]				
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.29it/s]		
		all	362	750	0.828	0.648
0.687	0.493					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	28/100	3G	1.158	0.8001	1.087	23
640:	100% 92/92	[00:34<00:00, 2.66it/s]				
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.26it/s]		
		all	362	750	0.808	0.655
0.681	0.475					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	29/100	2.58G	1.161	0.7799	1.075	48
640:	100% 92/92	[00:34<00:00, 2.71it/s]				



		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.23it/s]		
		all	362	750	0.836	0.649
0.673	0.471					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	30/100	3.02G	1.159	0.7832	1.077	105
640:	100%	92/92	[00:35<00:00, 2.62it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.32it/s]		
		all	362	750	0.82	0.664
0.687	0.488					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	31/100	2.71G	1.144	0.7589	1.056	24
640:	100%	92/92	[00:34<00:00, 2.68it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:04<00:00, 2.70it/s]		
		all	362	750	0.85	0.65
0.677	0.48					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	32/100	2.94G	1.11	0.7716	1.055	30
640:	100%	92/92	[00:32<00:00, 2.82it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:05<00:00, 2.31it/s]		
		all	362	750	0.835	0.655
0.692	0.476					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	33/100	2.78G	1.123	0.7396	1.055	120
640:	100%	92/92	[00:32<00:00, 2.85it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.83it/s]		
		all	362	750	0.833	0.653
0.689	0.476					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	34/100	2.5G	1.152	0.7712	1.074	33
640:	100%	92/92	[00:32<00:00, 2.85it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.89it/s]		
		all	362	750	0.808	0.681
0.692	0.488					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	35/100	2.93G	1.088	0.7461	1.054	27
	100%	92/92	[00:32<00:00, 2.80it/s]			
mAP50	Class	Images	Instances	Box(P	R	
	mAP50-95):	100%	12/12	[00:05<00:00, 2.05it/s]		
	all		362	750	0.823	0.659
0.68	0.469					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	36/100	3.03G	1.103	0.7347	1.057	173
	100%	92/92	[00:33<00:00, 2.78it/s]			
mAP50	Class	Images	Instances	Box(P	R	
	mAP50-95):	100%	12/12	[00:05<00:00, 2.16it/s]		
	all		362	750	0.832	0.66
0.687	0.494					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	37/100	2.85G	1.11	0.7311	1.061	20
	100%	92/92	[00:33<00:00, 2.74it/s]			
mAP50	Class	Images	Instances	Box(P	R	
	mAP50-95):	100%	12/12	[00:04<00:00, 2.91it/s]		
	all		362	750	0.838	0.661
0.727	0.51					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	38/100	2.88G	1.119	0.7239	1.047	26
	100%	92/92	[00:34<00:00, 2.65it/s]			
mAP50	Class	Images	Instances	Box(P	R	
	mAP50-95):	100%	12/12	[00:03<00:00, 3.22it/s]		
	all		362	750	0.849	0.667
0.696	0.506					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	39/100	2.55G	1.088	0.7167	1.06	23
	100%	92/92	[00:34<00:00, 2.67it/s]			
mAP50	Class	Images	Instances	Box(P	R	
	mAP50-95):	100%	12/12	[00:03<00:00, 3.24it/s]		
	all		362	750	0.851	0.645
0.715	0.512					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	40/100	2.8G	1.102	0.7123	1.048	26
	100%	92/92	[00:33<00:00, 2.72it/s]			
	Class	Images	Instances	Box(P	R	

```

mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.35it/s]
          all          362          750          0.837          0.662
0.69      0.484

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      41/100      2.77G      1.091      0.7002      1.048          47
640: 100% 92/92 [00:34<00:00, 2.63it/s]
      Class      Images  Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.21it/s]
          all          362          750          0.839          0.664
0.678      0.482

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      42/100      3.23G      1.086      0.6996      1.039          42
640: 100% 92/92 [00:34<00:00, 2.70it/s]
      Class      Images  Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:04<00:00, 2.96it/s]
          all          362          750          0.855          0.671
0.705      0.506

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      43/100      2.91G      1.119      0.7036      1.05          37
640: 100% 92/92 [00:34<00:00, 2.65it/s]
      Class      Images  Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.05it/s]
          all          362          750          0.855          0.664
0.697      0.501

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      44/100      2.89G      1.076      0.6891      1.029          27
640: 100% 92/92 [00:35<00:00, 2.62it/s]
      Class      Images  Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:05<00:00, 2.34it/s]
          all          362          750          0.853          0.657
0.708      0.506

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      45/100      2.97G      1.083      0.6731      1.044          32
640: 100% 92/92 [00:33<00:00, 2.73it/s]
      Class      Images  Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:06<00:00, 1.85it/s]
          all          362          750          0.856          0.648
0.693      0.489

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances

```

Size	46/100	2.65G	1.06	0.6833	1.037	46
640:	100%	92/92	[00:32<00:00, 2.83it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:07<00:00, 1.71it/s]		
		all	362	750	0.841	0.657
0.693	0.485					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	47/100	2.96G	1.062	0.6702	1.032	62
640:	100%	92/92	[00:33<00:00, 2.75it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:05<00:00, 2.25it/s]		
		all	362	750	0.845	0.659
0.693	0.496					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	48/100	2.79G	1.073	0.6906	1.037	22
640:	100%	92/92	[00:35<00:00, 2.61it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:04<00:00, 2.74it/s]		
		all	362	750	0.837	0.645
0.682	0.482					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	49/100	2.86G	1.062	0.6609	1.03	30
640:	100%	92/92	[00:34<00:00, 2.66it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.21it/s]		
		all	362	750	0.842	0.652
0.695	0.502					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	50/100	2.7G	1.065	0.6751	1.028	17
640:	100%	92/92	[00:35<00:00, 2.58it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:04<00:00, 2.95it/s]		
		all	362	750	0.839	0.656
0.696	0.501					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	51/100	2.95G	1.048	0.6509	1.029	31
640:	100%	92/92	[00:35<00:00, 2.59it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.04it/s]		

0.703	0.507	all	362	750	0.832	0.675
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	52/100	2.82G	1.056	0.6561	1.042	31
100%	92/92	[00:34<00:00, 2.67it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:03<00:00, 3.06it/s]			
0.698	0.501	all	362	750	0.828	0.667
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	53/100	2.91G	1.053	0.653	1.021	30
100%	92/92	[00:35<00:00, 2.59it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:04<00:00, 2.92it/s]			
0.7	0.51	all	362	750	0.856	0.66
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	54/100	2.84G	1.04	0.633	1.02	31
100%	92/92	[00:34<00:00, 2.65it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:05<00:00, 2.20it/s]			
0.729	0.533	all	362	750	0.845	0.677
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	55/100	2.7G	1.055	0.6444	1.02	36
100%	92/92	[00:32<00:00, 2.80it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:06<00:00, 1.97it/s]			
0.712	0.518	all	362	750	0.849	0.673
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	56/100	2.71G	1.025	0.6345	1.027	75
100%	92/92	[00:31<00:00, 2.89it/s]				
mAP50	Class	Images	Instances	Box(P	R	
mAP50-95):	100%	12/12	[00:06<00:00, 1.96it/s]			
0.693	0.505	all	362	750	0.852	0.654
Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances

57/100	2.7G	1.039	0.6564	1.029	29
640: 100%	92/92	[00:33<00:00, 2.73it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:06<00:00, 1.98it/s]		
	all	362	750	0.841	0.669
0.698	0.509				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size					
58/100	2.7G	1.042	0.6363	1.024	42
640: 100%	92/92	[00:33<00:00, 2.71it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:04<00:00, 2.50it/s]		
	all	362	750	0.833	0.669
0.708	0.517				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size					
59/100	3.1G	1.049	0.6382	1.018	35
640: 100%	92/92	[00:34<00:00, 2.64it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.22it/s]		
	all	362	750	0.842	0.674
0.716	0.521				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size					
60/100	2.65G	1.021	0.6315	1.014	79
640: 100%	92/92	[00:34<00:00, 2.65it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.05it/s]		
	all	362	750	0.85	0.672
0.704	0.511				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size					
61/100	2.76G	1.028	0.6254	1.008	21
640: 100%	92/92	[00:34<00:00, 2.63it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.26it/s]		
	all	362	750	0.828	0.681
0.706	0.51				

Epoch	GPU_mem	box_loss	cls_loss	dfl_loss	Instances
Size					
62/100	2.45G	1.013	0.6053	1.013	45
640: 100%	92/92	[00:33<00:00, 2.71it/s]			
	Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:04<00:00, 2.94it/s]		
	all	362	750	0.839	0.668

```

0.71      0.526
Epoch    GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size      63/100      2.52G      0.9984      0.603      1.007      28
640: 100% 92/92 [00:34<00:00, 2.67it/s]
Class     Images  Instances  Box(P      R
mAP50     mAP50-95): 100% 12/12 [00:04<00:00, 2.70it/s]
all       362      750      0.86      0.668
0.696     0.508

```

```

Epoch    GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size      64/100      3.2G      1.003      0.6003     1.012      36
640: 100% 92/92 [00:33<00:00, 2.78it/s]
Class     Images  Instances  Box(P      R
mAP50     mAP50-95): 100% 12/12 [00:05<00:00, 2.23it/s]
all       362      750      0.842     0.666
0.701     0.515

```

```

Epoch    GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size      65/100      3.58G      1.015      0.6102     1.008      32
640: 100% 92/92 [00:32<00:00, 2.82it/s]
Class     Images  Instances  Box(P      R
mAP50     mAP50-95): 100% 12/12 [00:06<00:00, 1.90it/s]
all       362      750      0.87      0.651
0.706     0.516

```

```

Epoch    GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size      66/100      3.42G      1.009      0.6089     1.004      53
640: 100% 92/92 [00:32<00:00, 2.87it/s]
Class     Images  Instances  Box(P      R
mAP50     mAP50-95): 100% 12/12 [00:07<00:00, 1.67it/s]
all       362      750      0.83      0.67
0.696     0.512

```

```

Epoch    GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size      67/100      2.64G      1.017      0.5964     1.006      19
640: 100% 92/92 [00:32<00:00, 2.87it/s]
Class     Images  Instances  Box(P      R
mAP50     mAP50-95): 100% 12/12 [00:05<00:00, 2.05it/s]
all       362      750      0.842     0.651
0.697     0.513

```

```

Epoch    GPU_mem    box_loss    cls_loss    dfl_loss    Instances
Size      68/100      2.98G      0.977      0.5876      1      23

```



```

640: 100% 92/92 [00:34<00:00, 2.68it/s]
      Class      Images Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:04<00:00, 2.65it/s]
      all         362         750         0.85         0.666
0.707         0.513

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      69/100        2.73G        0.9837        0.5789        1.003         49
640: 100% 92/92 [00:34<00:00, 2.68it/s]
      Class      Images Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.23it/s]
      all         362         750         0.845         0.661
0.704         0.517

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      70/100        3.65G        0.9986        0.5879        0.9948         34
640: 100% 92/92 [00:35<00:00, 2.56it/s]
      Class      Images Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.21it/s]
      all         362         750         0.849         0.675
0.71         0.521

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      71/100        2.78G        0.9805        0.5887        0.9927         37
640: 100% 92/92 [00:35<00:00, 2.61it/s]
      Class      Images Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.19it/s]
      all         362         750         0.855         0.665
0.707         0.524

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      72/100        3.01G         1.01        0.5896        0.992        161
640: 100% 92/92 [00:35<00:00, 2.60it/s]
      Class      Images Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.10it/s]
      all         362         750         0.818         0.679
0.712         0.513

```

```

      Epoch      GPU_mem    box_loss    cls_loss    dfl_loss  Instances
Size
      73/100        2.8G         0.9771        0.5773        0.9932         22
640: 100% 92/92 [00:34<00:00, 2.63it/s]
      Class      Images Instances      Box(P          R
mAP50  mAP50-95): 100% 12/12 [00:03<00:00, 3.08it/s]
      all         362         750         0.868         0.642
0.719         0.531

```

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	74/100	2.87G	0.9561	0.5639	0.9831	17
640:	100%	92/92	[00:35<00:00, 2.62it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100% 12/12 [00:04<00:00, 2.68it/s]					
		all	362	750	0.846	0.668
0.71	0.527					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	75/100	2.92G	1.003	0.5734	0.9871	62
640:	100%	92/92	[00:32<00:00, 2.81it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100% 12/12 [00:06<00:00, 1.88it/s]					
		all	362	750	0.83	0.675
0.701	0.514					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	76/100	2.74G	0.9863	0.565	0.9851	43
640:	100%	92/92	[00:32<00:00, 2.84it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100% 12/12 [00:07<00:00, 1.67it/s]					
		all	362	750	0.844	0.659
0.72	0.533					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	77/100	2.91G	0.9738	0.551	0.9921	55
640:	100%	92/92	[00:32<00:00, 2.81it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100% 12/12 [00:07<00:00, 1.70it/s]					
		all	362	750	0.824	0.676
0.716	0.528					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	78/100	2.91G	0.9821	0.558	0.9891	20
640:	100%	92/92	[00:33<00:00, 2.72it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100% 12/12 [00:05<00:00, 2.37it/s]					
		all	362	750	0.863	0.653
0.708	0.515					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	79/100	2.75G	0.9534	0.5556	0.9825	39
640:	100%	92/92	[00:34<00:00, 2.70it/s]			

		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:04<00:00, 2.43it/s]			
	all	362	750	0.841	0.665	
0.701	0.511					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	80/100	3.02G	0.9658	0.5473	0.9907	36
640:	100%	92/92	[00:35<00:00, 2.60it/s]			
	Class	Images	Instances	Box(P	R	
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.12it/s]			
	all	362	750	0.833	0.676	
0.715	0.52					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	81/100	2.71G	0.9554	0.5465	0.984	28
640:	100%	92/92	[00:34<00:00, 2.63it/s]			
	Class	Images	Instances	Box(P	R	
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.18it/s]			
	all	362	750	0.841	0.667	
0.715	0.519					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	82/100	3.31G	0.958	0.5431	0.9884	24
640:	100%	92/92	[00:35<00:00, 2.61it/s]			
	Class	Images	Instances	Box(P	R	
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.15it/s]			
	all	362	750	0.851	0.678	
0.716	0.525					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	83/100	2.98G	0.9198	0.5444	0.9832	35
640:	100%	92/92	[00:36<00:00, 2.55it/s]			
	Class	Images	Instances	Box(P	R	
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.14it/s]			
	all	362	750	0.853	0.665	
0.71	0.519					
	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	84/100	2.72G	0.9632	0.536	0.9847	45
640:	100%	92/92	[00:35<00:00, 2.57it/s]			
	Class	Images	Instances	Box(P	R	
mAP50	mAP50-95): 100%	12/12	[00:03<00:00, 3.20it/s]			
	all	362	750	0.842	0.667	
0.722	0.534					

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	85/100	2.93G	0.9281	0.5236	0.9765	98
	100%	92/92	[00:35<00:00, 2.56it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.09it/s]		
		all	362	750	0.845	0.665
	0.707	0.519				

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	86/100	2.77G	0.9622	0.5334	0.9658	17
	100%	92/92	[00:36<00:00, 2.55it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.09it/s]		
		all	362	750	0.849	0.661
	0.707	0.518				

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	87/100	2.72G	0.9251	0.5211	0.9808	75
	100%	92/92	[00:35<00:00, 2.62it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:03<00:00, 3.02it/s]		
		all	362	750	0.831	0.668
	0.717	0.524				

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	88/100	2.84G	0.9467	0.5429	0.9746	120
	100%	92/92	[00:34<00:00, 2.63it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:04<00:00, 2.70it/s]		
		all	362	750	0.845	0.663
	0.704	0.519				

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	89/100	2.54G	0.931	0.5228	0.9727	34
	100%	92/92	[00:31<00:00, 2.88it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:05<00:00, 2.05it/s]		
		all	362	750	0.858	0.657
	0.712	0.526				

Size	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
640:	90/100	2.72G	0.9316	0.5128	0.9726	35
	100%	92/92	[00:31<00:00, 2.88it/s]			
		Class	Images	Instances	Box(P	R

```

mAP50  mAP50-95): 100% 12/12 [00:06<00:00, 1.85it/s]
              all      362      750      0.855      0.653
0.717      0.532
Closing dataloader mosaic
augmentations: 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))
/usr/lib/python3.10/multiprocessing/popen_fork.py:66: RuntimeWarning:
os.fork() was called. os.fork() is incompatible with multithreaded
code, and JAX is multithreaded, so this will likely lead to a
deadlock.
  self.pid = os.fork()

```

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	91/100	2.87G	0.8879	0.4684	0.9519	89
640:	100% 92/92	[00:33<00:00, 2.71it/s]				
	Class	Images	Instances	Box(P		R
mAP50	mAP50-95): 100%	12/12	[00:06<00:00, 1.97it/s]			
	all	362	750	0.859		0.658
	0.711		0.529			

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	92/100	2.73G	0.8806	0.4542	0.9468	18
640:	100% 92/92	[00:30<00:00, 3.01it/s]				
	Class	Images	Instances	Box(P		R
mAP50	mAP50-95): 100%	12/12	[00:05<00:00, 2.03it/s]			
	all	362	750	0.878		0.644
	0.713		0.53			

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	93/100	2.86G	0.8791	0.455	0.9466	20
640:	100% 92/92	[00:30<00:00, 3.00it/s]				
	Class	Images	Instances	Box(P		R
mAP50	mAP50-95): 100%	12/12	[00:06<00:00, 1.86it/s]			
	all	362	750	0.848		0.664
	0.72		0.534			

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	94/100	2.66G	0.8722	0.4556	0.9453	19
640:	100% 92/92	[00:29<00:00, 3.10it/s]				
	Class	Images	Instances	Box(P		R
mAP50	mAP50-95): 100%	12/12	[00:06<00:00, 1.72it/s]			
	all	362	750	0.844		0.668
	0.722		0.535			

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
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Size	95/100	2.92G	0.8701	0.4504	0.9455	21
640:	100%	92/92	[00:29<00:00, 3.12it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.80it/s]		
		all	362	750	0.844	0.66
0.714	0.527					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	96/100	3.2G	0.8574	0.442	0.9375	15
640:	100%	92/92	[00:29<00:00, 3.16it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.72it/s]		
		all	362	750	0.817	0.679
0.719	0.533					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	97/100	3.1G	0.8701	0.4482	0.9447	24
640:	100%	92/92	[00:30<00:00, 3.04it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.83it/s]		
		all	362	750	0.859	0.659
0.722	0.536					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	98/100	3.06G	0.8645	0.4404	0.9366	53
640:	100%	92/92	[00:30<00:00, 3.03it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.72it/s]		
		all	362	750	0.842	0.667
0.723	0.537					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	99/100	2.99G	0.8494	0.4398	0.9329	13
640:	100%	92/92	[00:30<00:00, 3.00it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.84it/s]		
		all	362	750	0.855	0.66
0.722	0.534					

	Epoch	GPU_mem	box_loss	cls_loss	df_l_loss	Instances
Size	100/100	3.04G	0.851	0.4341	0.9328	18
640:	100%	92/92	[00:30<00:00, 3.05it/s]			
		Class	Images	Instances	Box(P	R
mAP50	mAP50-95):	100%	12/12	[00:06<00:00, 1.73it/s]		

		all	362	750	0.853	0.661
0.723	0.536					

100 epochs completed in 1.109 hours.

Optimizer stripped from runs/detect/train/weights/last.pt, 6.3MB

Optimizer stripped from runs/detect/train/weights/best.pt, 6.3MB

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

Ultralytics YOLOv8.2.58 Python-3.10.12 torch-2.3.0+cu121 CUDA:0  
(Tesla T4, 15102MiB)

Model summary (fused): 168 layers, 3,006,038 parameters, 0 gradients,  
8.1 GFLOPs

		Class	Images	Instances	Box(P	R
mAP50	mAP50-95): 100%	12/12	[00:06<00:00,	1.81it/s]		
		all	362	750	0.841	0.669

0.723	0.536
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		Pepsi	347	750	0.841	0.669
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0.723	0.536
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Speed: 0.5ms preprocess, 2.5ms inference, 0.0ms loss, 2.6ms  
postprocess per image

Results saved to runs/detect/train

Learn more at <https://docs.ultralytics.com/modes/train>