

```
In [1]: !git clone https://github.com/freedomwebtech/yolov5train
!unzip /content/yolov5train/yolov5.zip -d /content/yolov5train
%cd /content/yolov5train/yolov5
!pip3 install -r requirements.txt
```

```
Cloning into 'yolov5train'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 12 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (12/12), done.
Archive: /content/yolov5train/yolov5.zip
  inflating: /content/yolov5train/yolov5/benchmarks.py
   creating: /content/yolov5train/yolov5/classify/
  inflating: /content/yolov5train/yolov5/classify/predict.py
  inflating: /content/yolov5train/yolov5/classify/train.py
  inflating: /content/yolov5train/yolov5/classify/val.py
  inflating: /content/yolov5train/yolov5/CONTRIBUTING.md
   creating: /content/yolov5train/yolov5/data/
  inflating: /content/yolov5train/yolov5/data/coco.yaml
   creating: /content/yolov5train/yolov5/data/scripts/
  inflating: /content/yolov5train/yolov5/data/scripts/get_imagenet.s
h
  inflating: /content/yolov5train/yolov5/data/scripts/get_coco128.sh
  inflating: /content/yolov5train/yolov5/data/scripts/download_weigh
ts.sh
  inflating: /content/yolov5train/yolov5/data/scripts/get_coco.sh
   creating: /content/yolov5train/yolov5/data/hyps/
  inflating: /content/yolov5train/yolov5/data/hyps/hyp.scratch-low.y
aml
  inflating: /content/yolov5train/yolov5/data/hyps/hyp.Objects365.ya
ml
  inflating: /content/yolov5train/yolov5/data/hyps/hyp.VOC.yaml
  inflating: /content/yolov5train/yolov5/data/hyps/hyp.scratch-med.y
aml
  inflating: /content/yolov5train/yolov5/data/hyps/hyp.scratch-high.
yaml
  inflating: /content/yolov5train/yolov5/data/Objects365.yaml
   creating: /content/yolov5train/yolov5/data/images/
  inflating: /content/yolov5train/yolov5/data/images/zidane.jpg
  inflating: /content/yolov5train/yolov5/data/images/bus.jpg
  inflating: /content/yolov5train/yolov5/data/VOC.yaml
  inflating: /content/yolov5train/yolov5/data/ImageNet.yaml
  inflating: /content/yolov5train/yolov5/data/xView.yaml
  inflating: /content/yolov5train/yolov5/data/SKU-110K.yaml
  inflating: /content/yolov5train/yolov5/data/GlobalWheat2020.yaml
  inflating: /content/yolov5train/yolov5/data/coco128-seg.yaml
  inflating: /content/yolov5train/yolov5/data/Argoverse.yaml
```

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inflating: /content/yolov5train/yolov5/data/coco128.yaml
inflating: /content/yolov5train/yolov5/data/VisDrone.yaml
inflating: /content/yolov5train/yolov5/dataset.yaml
inflating: /content/yolov5train/yolov5/detect.py
inflating: /content/yolov5train/yolov5/export.py
inflating: /content/yolov5train/yolov5/hubconf.py
inflating: /content/yolov5train/yolov5/LICENSE
  creating: /content/yolov5train/yolov5/models/
extracting: /content/yolov5train/yolov5/models/__init__.py
  inflating: /content/yolov5train/yolov5/models/common.py
  inflating: /content/yolov5train/yolov5/models/yolov5x.yaml
  inflating: /content/yolov5train/yolov5/models/yolov5m.yaml
  inflating: /content/yolov5train/yolov5/models/yolov5s.yaml
  inflating: /content/yolov5train/yolov5/models/tf.py
  inflating: /content/yolov5train/yolov5/models/yolo.py
  inflating: /content/yolov5train/yolov5/models/experimental.py
    creating: /content/yolov5train/yolov5/models/hub/
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-p2.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-bifpn.yaml
1
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-fpn.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5s-ghost.yaml
ml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5s6.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5l6.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov3-tiny.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov3.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-panet.yaml
1
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-p7.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5m6.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov3-spp.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5n6.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5s-transformer.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5s-LeakyReLU.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-p34.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5-p6.yaml
  inflating: /content/yolov5train/yolov5/models/hub/anchors.yaml
  inflating: /content/yolov5train/yolov5/models/hub/yolov5x6.yaml
  inflating: /content/yolov5train/yolov5/models/yolov5l.yaml
  inflating: /content/yolov5train/yolov5/models/yolov5n.yaml
    creating: /content/yolov5train/yolov5/models/segment/
  inflating: /content/yolov5train/yolov5/models/segment/yolov5m-seg.yaml
  inflating: /content/yolov5train/yolov5/models/segment/yolov5x-seg.yaml
  inflating: /content/yolov5train/yolov5/models/segment/yolov5l-seg.yaml

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    inflating: /content/yolov5train/yolov5/models/segment/yolov5s-seg.
yml
    inflating: /content/yolov5train/yolov5/models/segment/yolov5n-seg.
yml
    inflating: /content/yolov5train/yolov5/README.md
    inflating: /content/yolov5train/yolov5/requirements.txt
    creating: /content/yolov5train/yolov5/segment/
    inflating: /content/yolov5train/yolov5/segment/predict.py
    inflating: /content/yolov5train/yolov5/segment/train.py
    inflating: /content/yolov5train/yolov5/segment/val.py
    inflating: /content/yolov5train/yolov5/setup.cfg
    inflating: /content/yolov5train/yolov5/train.py
    inflating: /content/yolov5train/yolov5/tutorial.ipynb
    creating: /content/yolov5train/yolov5/utils/
    inflating: /content/yolov5train/yolov5/utils/__init__.py
    inflating: /content/yolov5train/yolov5/utils/metrics.py
    inflating: /content/yolov5train/yolov5/utils/downloads.py
    creating: /content/yolov5train/yolov5/utils/flask_rest_api/
    inflating: /content/yolov5train/yolov5/utils/flask_rest_api/example_
e_request.py
    inflating: /content/yolov5train/yolov5/utils/flask_rest_api/README
.md
    inflating: /content/yolov5train/yolov5/utils/flask_rest_api/restap
i.py
    inflating: /content/yolov5train/yolov5/utils/loss.py
    inflating: /content/yolov5train/yolov5/utils/dataloaders.py
    inflating: /content/yolov5train/yolov5/utils/callbacks.py
    inflating: /content/yolov5train/yolov5/utils/activations.py
    creating: /content/yolov5train/yolov5/utils/docker/
    inflating: /content/yolov5train/yolov5/utils/docker/Dockerfile-cpu
    inflating: /content/yolov5train/yolov5/utils/docker/Dockerfile
    inflating: /content/yolov5train/yolov5/utils/docker/Dockerfile-arm
64
    creating: /content/yolov5train/yolov5/utils/aws/
    extracting: /content/yolov5train/yolov5/utils/aws/__init__.py
    inflating: /content/yolov5train/yolov5/utils/aws/userdata.sh
    inflating: /content/yolov5train/yolov5/utils/aws/resume.py
    inflating: /content/yolov5train/yolov5/utils/aws/mime.sh
    inflating: /content/yolov5train/yolov5/utils/augmentations.py
    inflating: /content/yolov5train/yolov5/utils/plots.py
    inflating: /content/yolov5train/yolov5/utils/torch_utils.py
    inflating: /content/yolov5train/yolov5/utils/triton.py
    inflating: /content/yolov5train/yolov5/utils/autobatch.py
    creating: /content/yolov5train/yolov5/utils/segment/
    extracting: /content/yolov5train/yolov5/utils/segment/__init__.py
    inflating: /content/yolov5train/yolov5/utils/segment/metrics.py
    inflating: /content/yolov5train/yolov5/utils/segment/loss.py
    inflating: /content/yolov5train/yolov5/utils/segment/dataloaders.p
y
    inflating: /content/yolov5train/yolov5/utils/segment/augmentations

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.py
  inflating: /content/yolov5train/yolov5/utils/segment/plots.py
  inflating: /content/yolov5train/yolov5/utils/segment/general.py
    creating: /content/yolov5train/yolov5/utils/google_app_engine/
  inflating: /content/yolov5train/yolov5/utils/google_app_engine/app
.yaml
  inflating: /content/yolov5train/yolov5/utils/google_app_engine/add
itional_requirements.txt
  inflating: /content/yolov5train/yolov5/utils/google_app_engine/Doc
kerfile
  inflating: /content/yolov5train/yolov5/utils/autoanchor.py
  inflating: /content/yolov5train/yolov5/utils/general.py
    creating: /content/yolov5train/yolov5/utils/loggers/
  inflating: /content/yolov5train/yolov5/utils/loggers/__init__.py
    creating: /content/yolov5train/yolov5/utils/loggers/wandb/
  extracting: /content/yolov5train/yolov5/utils/loggers/wandb/__init_
_.py
  inflating: /content/yolov5train/yolov5/utils/loggers/wandb/sweep.py
aml
  inflating: /content/yolov5train/yolov5/utils/loggers/wandb/log_dat
aset.py
  inflating: /content/yolov5train/yolov5/utils/loggers/wandb/wandb_u
tils.py
  inflating: /content/yolov5train/yolov5/utils/loggers/wandb/README.
md
  inflating: /content/yolov5train/yolov5/utils/loggers/wandb/sweep.p
y
    creating: /content/yolov5train/yolov5/utils/loggers/clearml/
  extracting: /content/yolov5train/yolov5/utils/loggers/clearml/__ini
t__.py
  inflating: /content/yolov5train/yolov5/utils/loggers/clearml/clear
ml_utils.py
  inflating: /content/yolov5train/yolov5/utils/loggers/clearml/hpo.p
y
  inflating: /content/yolov5train/yolov5/utils/loggers/clearml/READM
E.md
    creating: /content/yolov5train/yolov5/utils/loggers/comet/
  inflating: /content/yolov5train/yolov5/utils/loggers/comet/__init_
_.py
  inflating: /content/yolov5train/yolov5/utils/loggers/comet/optimiz
er_config.json
  inflating: /content/yolov5train/yolov5/utils/loggers/comet/hpo.py
  inflating: /content/yolov5train/yolov5/utils/loggers/comet/README.
md
  inflating: /content/yolov5train/yolov5/utils/loggers/comet/comet_u
tils.py
  inflating: /content/yolov5train/yolov5/val.py
/content/yolov5train/yolov5
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.d
ev/colab-wheels/public/simple/

```

```

Requirement already satisfied: matplotlib>=3.2.2 in /usr/local/lib/p
ython3.8/dist-packages (from -r requirements.txt (line 5)) (3.2.2)
Requirement already satisfied: numpy>=1.18.5 in /usr/local/lib/pytho
n3.8/dist-packages (from -r requirements.txt (line 6)) (1.21.6)
Requirement already satisfied: opencv-python>=4.1.1 in /usr/local/li
b/python3.8/dist-packages (from -r requirements.txt (line 7)) (4.6.0
.66)
Requirement already satisfied: Pillow>=7.1.2 in /usr/local/lib/pytho
n3.8/dist-packages (from -r requirements.txt (line 8)) (7.1.2)
Requirement already satisfied: PyYAML>=5.3.1 in /usr/local/lib/pytho
n3.8/dist-packages (from -r requirements.txt (line 9)) (6.0)
Requirement already satisfied: requests>=2.23.0 in /usr/local/lib/pyt
hon3.8/dist-packages (from -r requirements.txt (line 10)) (2.23.0)
Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python
3.8/dist-packages (from -r requirements.txt (line 11)) (1.7.3)
Requirement already satisfied: torch>=1.7.0 in /usr/local/lib/python
3.8/dist-packages (from -r requirements.txt (line 12)) (1.12.1+cu113
)
Requirement already satisfied: torchvision>=0.8.1 in /usr/local/lib/
python3.8/dist-packages (from -r requirements.txt (line 13)) (0.13.1
+cu113)
Requirement already satisfied: tqdm>=4.64.0 in /usr/local/lib/python
3.8/dist-packages (from -r requirements.txt (line 14)) (4.64.1)
Requirement already satisfied: tensorboard>=2.4.1 in /usr/local/lib/
python3.8/dist-packages (from -r requirements.txt (line 18)) (2.9.1)
Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/pytho
n3.8/dist-packages (from -r requirements.txt (line 23)) (1.3.5)
Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/pyt
hon3.8/dist-packages (from -r requirements.txt (line 24)) (0.11.2)
Requirement already satisfied: ipython in /usr/local/lib/python3.8/d
ist-packages (from -r requirements.txt (line 41)) (7.9.0)
Requirement already satisfied: psutil in /usr/local/lib/python3.8/di
st-packages (from -r requirements.txt (line 42)) (5.4.8)
Collecting thop>=0.1.1
  Downloading thop-0.1.1.post2209072238-py3-none-any.whl (15 kB)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python
3.8/dist-packages (from matplotlib>=3.2.2->-r requirements.txt (line
5)) (0.11.0)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/li
b/python3.8/dist-packages (from matplotlib>=3.2.2->-r requirements.t
xt (line 5)) (2.8.2)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/p
ython3.8/dist-packages (from matplotlib>=3.2.2->-r requirements.txt
(line 5)) (1.4.4)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.
0.1 in /usr/local/lib/python3.8/dist-packages (from matplotlib>=3.2.
2->-r requirements.txt (line 5)) (3.0.9)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/p
ython3.8/dist-packages (from requests>=2.23.0->-r requirements.txt (
line 10)) (3.0.4)

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Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.8/dist-packages (from requests>=2.23.0->-r requirements.txt (line 10)) (1.24.3)

Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.8/dist-packages (from requests>=2.23.0->-r requirements.txt (line 10)) (2.10)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.8/dist-packages (from requests>=2.23.0->-r requirements.txt (line 10)) (2022.9.24)

Requirement already satisfied: typing-extensions in /usr/local/lib/python3.8/dist-packages (from torch>=1.7.0->-r requirements.txt (line 12)) (4.1.1)

Requirement already satisfied: google-auth<3,>=1.6.3 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (2.14.1)

Requirement already satisfied: setuptools>=41.0.0 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (57.4.0)

Requirement already satisfied: absl-py>=0.4 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (1.3.0)

Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (3.4.1)

Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (0.4.6)

Requirement already satisfied: protobuf<3.20,>=3.9.2 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (3.19.6)

Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (1.8.1)

Requirement already satisfied: werkzeug>=1.0.1 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (1.0.1)

Requirement already satisfied: grpcio>=1.24.3 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (1.50.0)

Requirement already satisfied: wheel>=0.26 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (0.38.4)

Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in /usr/local/lib/python3.8/dist-packages (from tensorboard>=2.4.1->-r requirements.txt (line 18)) (0.6.1)

Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.8/dist-packages (from pandas>=1.1.4->-r requirements.txt (line 23)) (2022.6)

Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3->tensorboard

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>=2.4.1->-r requirements.txt (line 18)) (5.2.0)
Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 18)) (0.2.8)
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 18)) (4.9)
Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.8/dist-packages (from google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 18)) (1.15.0)
Requirement already satisfied: requests-oauthlib>=0.7.0 in /usr/local/lib/python3.8/dist-packages (from google-auth-oauthlib<0.5,>=0.4.1->tensorboard>=2.4.1->-r requirements.txt (line 18)) (1.3.1)
Requirement already satisfied: importlib-metadata>=4.4 in /usr/local/lib/python3.8/dist-packages (from markdown>=2.6.8->tensorboard>=2.4.1->-r requirements.txt (line 18)) (4.13.0)
Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.8/dist-packages (from importlib-metadata>=4.4->markdown>=2.6.8->tensorboard>=2.4.1->-r requirements.txt (line 18)) (3.10.0)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in /usr/local/lib/python3.8/dist-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard>=2.4.1->-r requirements.txt (line 18)) (0.4.8)
Requirement already satisfied: oauthlib>=3.0.0 in /usr/local/lib/python3.8/dist-packages (from requests-oauthlib>=0.7.0->google-auth-oauthlib<0.5,>=0.4.1->tensorboard>=2.4.1->-r requirements.txt (line 18)) (3.2.2)
Requirement already satisfied: decorator in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (4.4.2)
Requirement already satisfied: backcall in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (0.2.0)
Requirement already satisfied: traitlets>=4.2 in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (5.1.1)
Collecting jedi>=0.10
  Downloading jedi-0.18.2-py2.py3-none-any.whl (1.6 MB)
    |████████████████████████████████████████| 1.6 MB 5.2 MB/s
Requirement already satisfied: pexpect in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (4.8.0)
Requirement already satisfied: pygments in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (2.6.1)
Requirement already satisfied: prompt-toolkit<2.1.0,>=2.0.0 in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (2.0.10)
Requirement already satisfied: pickleshare in /usr/local/lib/python3.8/dist-packages (from ipython->-r requirements.txt (line 41)) (0.7.5)
Requirement already satisfied: parso<0.9.0,>=0.8.0 in /usr/local/lib/python3.8/dist-packages (from jedi>=0.10->ipython->-r requirements.txt (line 41)) (0.8.3)
Requirement already satisfied: wcwidth in /usr/local/lib/python3.8/d

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```
ist-packages (from prompt-toolkit<2.1.0,>=2.0.0->ipython->-r requirements.txt (line 41)) (0.2.5)
Requirement already satisfied: ptyprocess>=0.5 in /usr/local/lib/python3.8/dist-packages (from pexpect->ipython->-r requirements.txt (line 41)) (0.7.0)
Installing collected packages: jedi, thop
Successfully installed jedi-0.18.2 thop-0.1.1.post2209072238
```

```
In [2]: from google.colab import drive
drive.mount('/content/gdrive')
!ln -s /content/gdrive/My\ Drive/ /mydrive
!ls /mydrive
```

```
Mounted at /content/gdrive
'209 as.gslides'
209_Final.gslides
'2 23 BS.gdoc'
689FA7A0-44F0-4AE5-A960-769771105717.jpeg
AB5BBEAA-01B8-4B75-A224-8139D6835F16.png
Batch-Normalization.html
Batch-Normalization.ipynb
'Colab Notebooks'
data.zip
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inflating: /content/yolov5train/data/labels/validation/1592674084_jpg.rf.8f698ac22d763cc7851fb3dc4f615999.jpg
inflating: /content/yolov5train/data/labels/validation/607247408_jpg.rf.caabfe53531edb5b604f8ff0c0c03642.txt
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-4-1-_jpg.rf.fc4f499fb5c72c79ab3b1b872afae389.txt
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-3_jpg.rf.760756a9fda777c01dd54b1b621fd623.txt
inflating: /content/yolov5train/data/labels/validation/1712518988_jpg.rf.11236d4794f78b89fa56944a383327f8.txt
inflating: /content/yolov5train/data/labels/validation/1869144642_jpg.rf.a4873b8c246d330b0413e3edf6823f9a.jpg
inflating: /content/yolov5train/data/labels/validation/1100153450_jpg.rf.085c209b298297c553e224a149c80e83.jpg
inflating: /content/yolov5train/data/labels/validation/4286913130_jpg.rf.f73e00646ce9c9a25da9ba9c0fcebfb96.txt
inflating: /content/yolov5train/data/labels/validation/548878586_jpg.rf.17216f271a6f53949751d779418c99ca.jpg
inflating: /content/yolov5train/data/labels/validation/1718623600_jpg.rf.c24e7025805556baaca6c4acf0855df9.jpg
inflating: /content/yolov5train/data/labels/validation/1485297342_jpg.rf.219d7e2ed49af0f829316e1848a76bc7.jpg
inflating: /content/yolov5train/data/labels/validation/3972384406_jpg.rf.b0ba70f2eefe3f451d7cf26f5cc1123b.txt
inflating: /content/yolov5train/data/labels/validation/3033269082_jpg.rf.347b74613e397ad2f83f269209c37dc0.txt
inflating: /content/yolov5train/data/labels/validation/win5_jpg.rf.0a59fc3d5ddae352b7d35e579ba9cf44.txt
inflating: /content/yolov5train/data/labels/validation/best-energy-efficient-windows-in-double-hung-desing-with-white-wooden-frame-clear-glazing-and-wooden-floor_jpg.rf.64360f34f35e4bab8b1c83a2b17411b8.jpg

inflating: /content/yolov5train/data/labels/validation/2659601106_jpg.rf.f1f1573229ae2c81a5906e4ff55357cb.txt
inflating: /content/yolov5train/data/labels/validation/most-energy-efficient-windows-in-living-room-with-clear-glazing-and-brown-sofa-plus-square-wooden-table-and-end-table-with-rug-underneath-plus-plants_jpg.rf.9799ee48e4e4286baf703ef11aa3a36.jpg
inflating: /content/yolov5train/data/labels/validation/asymmetrical-bay-window-with-full-glass-window-built-in-wood-bench-seat-and-black-cushion-and-pillows_jpg.rf.a8adb7f3c1279cecd75be283a822e2bc.jpg
inflating: /content/yolov5train/data/labels/validation/best-energy-efficient-windows-with-double-hung-model-and-white-wood-frames-in-the-bedroom_jpg.rf.2c17a6ef52caca60c7796bcd9c51b84b.jpg
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-15_jpg.rf.3e955c2c8268e0890e71daa9bdb0d94c.txt
inflating: /content/yolov5train/data/labels/validation/1837714150_jpg.rf.5561157ddef2e7337828bb4a0ddb2361.jpg
inflating: /content/yolov5train/data/labels/validation/2056968388_jpg.rf.73b854df1844f87d9ad4f10210fab8e3.txt
inflating: /content/yolov5train/data/labels/validation/1838172976_jpg.rf.98bbc771672a472fef03768294be6d4a.txt
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inflating: /content/yolov5train/data/labels/validation/win2_jpg.rf.057f7463e5e5a0cf713919175bcf104d.txt
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inflating: /content/yolov5train/data/labels/validation/1760260210_jpg.rf.e306174e6720fc726eca1b2c52cf9cc2.jpg
inflating: /content/yolov5train/data/labels/validation/812547830_jpg.rf.6d873b2756ca6255d8f4598f42e95c87.txt
inflating: /content/yolov5train/data/labels/validation/473020446_jpg.rf.2bd98091e46391be328610a6037c618f.txt
inflating: /content/yolov5train/data/labels/validation/723808706_jpg.rf.15e1a70b3ed6a561b4ae20b7e843b67b.jpg
inflating: /content/yolov5train/data/labels/validation/432094058_jpg.rf.b1c8b9a0bc94157cefa3d0c857d089b7.txt
inflating: /content/yolov5train/data/labels/validation/1869144642_jpg.rf.a4873b8c246d330b0413e3edf6823f9a.txt
inflating: /content/yolov5train/data/labels/validation/1712518988_jpg.rf.11236d4794f78b89fa56944a383327f8.jpg
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-4-1-_jpg.rf.fc4f499fb5c72c79ab3b1b872afae389.jpg
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-3_jpg.rf.760756a9fda777c01dd54b1b621fd623.jpg
inflating: /content/yolov5train/data/labels/validation/1100153450_jpg.rf.085c209b298297c553e224a149c80e83.txt
inflating: /content/yolov5train/data/labels/validation/win1_jpg.rf.17c5f86aa743a22955a9flacbaa089ae.txt
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inflating: /content/yolov5train/data/labels/validation/3981885596_jpg.rf.6deb96bf65a6ab58baff5b5aed5bfcf1.txt
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inflating: /content/yolov5train/data/labels/validation/1592674084_jpg.rf.8f698ac22d763cc7851fb3dc4f615999.txt
inflating: /content/yolov5train/data/labels/validation/3033269082_jpg.rf.347b74613e397ad2f83f269209c37dc0.jpg
inflating: /content/yolov5train/data/labels/validation/best-energy-efficient-windows-in-double-hung-desing-with-white-wooden-frame-clear-glazing-and-wooden-floor_jpg.rf.64360f34f35e4bab8b1c83a2b17411b8.txt
inflating: /content/yolov5train/data/labels/validation/win5_jpg.rf.0a59fc3d5ddae352b7d35e579ba9cf44.jpg
inflating: /content/yolov5train/data/labels/validation/1485297342_jpg.rf.219d7e2ed49af0f829316e1848a76bc7.txt
inflating: /content/yolov5train/data/labels/validation/548878586_jpg.rf.17216f271a6f53949751d779418c99ca.txt
inflating: /content/yolov5train/data/labels/validation/4286913130_jpg.rf.f73e00646ce9c9a25da9ba9c0fcebfb96.jpg
inflating: /content/yolov5train/data/labels/validation/1718623600_jpg.rf.c24e7025805556baaca6c4acf0855df9.txt
inflating: /content/yolov5train/data/labels/validation/3972384406_jpg.rf.b0ba70f2eefe3f451d7cf26f5cc1123b.jpg
inflating: /content/yolov5train/data/labels/validation/1838172976_jpg.rf.98bbc771672a472fef03768294be6d4a.jpg
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-23_jpg.rf.14729ee7cdab844822e1bb6143731b85.txt
inflating: /content/yolov5train/data/labels/validation/best-energy-efficient-windows-with-double-hung-model-and-white-wood-frames-in-the-bedroom_jpg.rf.2c17a6ef52caca60c7796bcd9c51b84b.txt
inflating: /content/yolov5train/data/labels/validation/asymmetrical-bay-window-with-full-glass-window-built-in-wood-bench-seat-and-black-cushion-and-pillows_jpg.rf.a8adbf73c1279cecd75be283a822e2bc.txt
inflating: /content/yolov5train/data/labels/validation/2659601106_jpg.rf.f1f1573229ae2c81a5906e4ff55357cb.jpg
inflating: /content/yolov5train/data/labels/validation/most-energy-efficient-windows-in-living-room-with-clear-glazing-and-brown-sofa-plus-square-wooden-table-and-end-table-with-rug-underneath-plus-plants_jpg.rf.9799ee48e4e4286baf703ef11aa3a36.txt
inflating: /content/yolov5train/data/labels/validation/2056968388_jpg.rf.73b854df1844f87d9ad4f10210fab8e3.jpg
inflating: /content/yolov5train/data/labels/validation/25-window-design-ideas-15_jpg.rf.3e955c2c8268e0890e71daa9bdb0d94c.jpg
inflating: /content/yolov5train/data/labels/validation/1837714150_jpg.rf.5561157ddef2e7337828bb4a0ddb2361.txt

```
In [4]: !python3 /content/yolov5train/yolov5/train.py --img 416 --batch 16 --e
pochs 100 --data /content/yolov5train/yolov5/dataset.yaml --weights yo
lov5s.pt
```

train: weights=yolov5s.pt, cfg=, data=/content/yolov5train/yolov5/dataset.yaml, hyp=data/hyps/hyp.scratch-low.yaml, epochs=100, batch_size=16, imgsz=416, 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=8, project=runs/train, name=exp, exist_ok=False, quad=False, cos_lr=False, label_smoothing=0.0, patience=100, freeze=[0], save_period=-1, seed=0, local_rank=-1, entity=None, upload_dataset=False, bbox_interval=-1, artifact_alias=latest

github: skipping check (not a git repository), for updates see <https://github.com/ultralytics/yolov5>

YOLOv5 🚀 2022-10-4 Python-3.8.15 torch-1.12.1+cu113 CUDA:0 (Tesla T4, 15110MiB)

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

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, 18.3MB/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, 137MB/s]

Overriding model.yaml nc=80 with nc=1

	from	n	params	module
arguments				
0	-1	1	3520	models.common.Conv
[3, 32, 6, 2, 2]				
1	-1	1	18560	models.common.Conv
[32, 64, 3, 2]				
2	-1	1	18816	models.common.C3

```

[64, 64, 1]
 3          -1  1      73984  models.common.Conv
[64, 128, 3, 2]
 4          -1  2     115712  models.common.C3
[128, 128, 2]
 5          -1  1     295424  models.common.Conv
[128, 256, 3, 2]
 6          -1  3     625152  models.common.C3
[256, 256, 3]
 7          -1  1     1180672  models.common.Conv
[256, 512, 3, 2]
 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.Upa
mple      [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.Upa
mple      [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     16182  models.yolo.Detect
[1, [[10, 13, 16, 30, 33, 23], [30, 61, 62, 45, 59, 119], [116, 90,
156, 198, 373, 326]], [128, 256, 512]]
Model summary: 214 layers, 7022326 parameters, 7022326 gradients, 15
.9 GFLOPs

```

Transferred 343/349 items from yolov5s.pt

AMP: checks passed 

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


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))

train: Scanning '/content/yolov5train/data/labels/training' images and labels...82 found, 0 missing, 0 empty, 0 corrupt: 100% 82/82 [00:00<00:00, 1950.06it/s]

train: New cache created: /content/yolov5train/data/labels/training.cache

val: Scanning '/content/yolov5train/data/labels/validation' images and labels...82 found, 0 missing, 0 empty, 0 corrupt: 100% 82/82 [00:00<00:00, 1566.23it/s]

val: New cache created: /content/yolov5train/data/labels/validation.cache

AutoAnchor: 4.57 anchors/target, 1.000 Best Possible Recall (BPR). Current anchors are a good fit to dataset 

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

Image sizes 416 train, 416 val

Using 2 dataloader workers

Logging results to **runs/train/exp**

Starting training for 100 epochs...

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	0/99	1.72G	0.1216	0.02604	0	12
416:	100% 6/6	[00:04<00:00,	1.34it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:02<00:00,	1.16it/s]		
	all	82	156	0.0227	0.0192	
0.00986	0.0027					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	1/99	1.92G	0.12	0.02502	0	7
416:	100% 6/6	[00:01<00:00,	4.58it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	1.91it/s]		
	all	82	156	0.0145	0.327	
0.00918	0.00257					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	2/99	1.92G	0.1043	0.02905	0	3
416:	100% 6/6	[00:01<00:00,	4.99it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	1.89it/s]		
	all	82	156	0.00411	0.647	

0.0108 0.00293

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	3/99	1.92G	0.1006	0.02953	0	5
416:	100% 6/6	[00:01<00:00, 5.14it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00, 2.07it/s]			
	all	82	156	0.0235	0.0192	

0.0172 0.00468

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	4/99	1.92G	0.09505	0.03621	0	10
416:	100% 6/6	[00:01<00:00, 5.36it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00, 2.08it/s]			
	all	82	156	0.0395	0.0385	

0.0233 0.00745

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	5/99	1.92G	0.08899	0.03154	0	8
416:	100% 6/6	[00:01<00:00, 5.06it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00, 2.06it/s]			
	all	82	156	0.116	0.109	

0.0534 0.0168

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	6/99	1.92G	0.08459	0.03891	0	17
416:	100% 6/6	[00:01<00:00, 5.98it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00, 1.98it/s]			
	all	82	156	0.221	0.212	

0.12 0.0368

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	7/99	1.92G	0.08266	0.03832	0	10
416:	100% 6/6	[00:01<00:00, 4.92it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00, 2.08it/s]			
	all	82	156	0.265	0.269	

0.172 0.0627

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	8/99	1.92G	0.0752	0.03296	0	9


```

416: 100% 6/6 [00:01<00:00, 4.92it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.39it/s]
      all          82        156      0.337      0.288
0.245      0.0995

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      9/99        1.92G     0.07443    0.03224         0           7
416: 100% 6/6 [00:01<00:00, 5.23it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.25it/s]
      all          82        156      0.327      0.359
0.285      0.0963

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      10/99       1.92G     0.07842    0.03738         0          12
416: 100% 6/6 [00:01<00:00, 5.18it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.48it/s]
      all          82        156      0.353      0.378
0.317      0.0962

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      11/99       1.92G     0.07227    0.03578         0          12
416: 100% 6/6 [00:01<00:00, 5.68it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.34it/s]
      all          82        156      0.321      0.353
0.258      0.0856

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      12/99       1.92G     0.06581    0.03212         0           7
416: 100% 6/6 [00:01<00:00, 5.17it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.24it/s]
      all          82        156      0.293      0.423
0.28      0.095

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      13/99       1.92G     0.07087    0.03274         0          12
416: 100% 6/6 [00:01<00:00, 5.47it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.04it/s]
      all          82        156      0.388      0.481
0.384      0.13

```

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	14/99	1.92G	0.06572	0.02745	0	2
416:	100% 6/6	[00:01<00:00,	5.19it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.24it/s]		
	all	82	156	0.398	0.442	
0.385	0.142					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	15/99	1.92G	0.06209	0.0307	0	5
416:	100% 6/6	[00:01<00:00,	5.98it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.20it/s]		
	all	82	156	0.298	0.397	
0.299	0.126					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	16/99	1.92G	0.06575	0.02668	0	5
416:	100% 6/6	[00:01<00:00,	5.67it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.18it/s]		
	all	82	156	0.536	0.532	
0.515	0.218					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	17/99	1.92G	0.05804	0.02729	0	7
416:	100% 6/6	[00:01<00:00,	5.35it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	1.62it/s]		
	all	82	156	0.615	0.436	
0.574	0.251					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	18/99	1.92G	0.06419	0.03186	0	14
416:	100% 6/6	[00:01<00:00,	3.13it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:02<00:00,	1.15it/s]		
	all	82	156	0.541	0.65	
0.609	0.213					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	19/99	1.92G	0.05636	0.02636	0	3
416:	100% 6/6	[00:01<00:00,	3.94it/s]			

		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.23it/s]		
		all	82	156	0.537	0.662
0.668	0.262					

Size	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
	20/99	1.92G	0.05842	0.02945	0	10
416:	100%	6/6	[00:01<00:00, 4.86it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.21it/s]		
		all	82	156	0.608	0.538
0.637	0.285					

Size	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
	21/99	1.92G	0.05718	0.0293	0	9
416:	100%	6/6	[00:01<00:00, 4.94it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.08it/s]		
		all	82	156	0.588	0.66
0.621	0.297					

Size	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
	22/99	1.92G	0.05916	0.03283	0	16
416:	100%	6/6	[00:01<00:00, 5.02it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.53it/s]		
		all	82	156	0.536	0.776
0.613	0.258					

Size	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
	23/99	1.92G	0.05147	0.02345	0	4
416:	100%	6/6	[00:01<00:00, 4.90it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.17it/s]		
		all	82	156	0.551	0.66
0.641	0.29					

Size	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
	24/99	1.92G	0.05599	0.02811	0	14
416:	100%	6/6	[00:01<00:00, 5.02it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.53it/s]		
		all	82	156	0.626	0.724
0.745	0.343					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	25/99	1.92G	0.05026	0.02621	0	11
416:	100% 6/6	[00:01<00:00,	4.80it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.22it/s]		
	all	82	156	0.413	0.756	
0.571	0.299					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	26/99	1.92G	0.05485	0.02653	0	13
416:	100% 6/6	[00:01<00:00,	5.32it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.57it/s]		
	all	82	156	0.823	0.833	
0.873	0.385					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	27/99	1.92G	0.04765	0.02334	0	6
416:	100% 6/6	[00:01<00:00,	5.13it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.40it/s]		
	all	82	156	0.637	0.845	
0.78	0.362					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	28/99	1.92G	0.04954	0.02205	0	8
416:	100% 6/6	[00:01<00:00,	5.63it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.11it/s]		
	all	82	156	0.48	0.775	
0.66	0.359					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	29/99	1.92G	0.05212	0.02309	0	3
416:	100% 6/6	[00:01<00:00,	5.21it/s]			
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.18it/s]		
	all	82	156	0.676	0.749	
0.791	0.419					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	30/99	1.92G	0.04618	0.02347	0	4
416:	100% 6/6	[00:01<00:00,	5.11it/s]			
	Class	Images	Instances	P	R	

```

mAP50    mAP50-95: 100% 3/3 [00:01<00:00, 2.45it/s]
              all           82           156           0.605           0.788
0.753      0.377

```

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
      31/99      1.92G     0.04633     0.02497           0           12
416: 100% 6/6 [00:00<00:00, 6.40it/s]
      Class      Images    Instances      P      R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00, 2.24it/s]
              all           82           156           0.529           0.673
0.616      0.337

```

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
      32/99      1.92G     0.05259     0.02142           0           6
416: 100% 6/6 [00:01<00:00, 4.98it/s]
      Class      Images    Instances      P      R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00, 2.34it/s]
              all           82           156           0.526           0.66
0.613      0.338

```

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
      33/99      1.92G     0.05114     0.02623           0           12
416: 100% 6/6 [00:01<00:00, 5.32it/s]
      Class      Images    Instances      P      R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00, 2.99it/s]
              all           82           156           0.704           0.865
0.832      0.397

```

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
      34/99      1.92G     0.04805     0.0261           0           20
416: 100% 6/6 [00:01<00:00, 5.61it/s]
      Class      Images    Instances      P      R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00, 2.19it/s]
              all           82           156           0.854           0.878
0.921      0.557

```

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
      35/99      1.92G     0.04181     0.02165           0           7
416: 100% 6/6 [00:01<00:00, 5.46it/s]
      Class      Images    Instances      P      R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00, 2.15it/s]
              all           82           156           0.894           0.872
0.946      0.523

```

```

      Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances

```

```

Size
    36/99      1.92G    0.04231    0.02027          0          8
416: 100% 6/6 [00:01<00:00,  5.38it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.43it/s]
      all          82        156      0.844      0.904
0.934      0.551

```

```

Epoch  GPU_mem  box_loss  obj_loss  cls_loss  Instances
Size
    37/99      1.92G    0.03919    0.02008          0          6
416: 100% 6/6 [00:01<00:00,  5.25it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.17it/s]
      all          82        156      0.901      0.904
0.953      0.582

```

```

Epoch  GPU_mem  box_loss  obj_loss  cls_loss  Instances
Size
    38/99      1.92G    0.04039    0.02104          0          2
416: 100% 6/6 [00:01<00:00,  5.76it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.14it/s]
      all          82        156      0.958      0.891
0.968      0.57

```

```

Epoch  GPU_mem  box_loss  obj_loss  cls_loss  Instances
Size
    39/99      1.92G    0.04334    0.02384          0         19
416: 100% 6/6 [00:01<00:00,  5.51it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.42it/s]
      all          82        156      0.835      0.91
0.918      0.558

```

```

Epoch  GPU_mem  box_loss  obj_loss  cls_loss  Instances
Size
    40/99      1.92G    0.04208    0.02275          0          8
416: 100% 6/6 [00:01<00:00,  5.72it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.41it/s]
      all          82        156      0.937      0.936
0.981      0.625

```

```

Epoch  GPU_mem  box_loss  obj_loss  cls_loss  Instances
Size
    41/99      1.92G    0.0339    0.02051          0          5
416: 100% 6/6 [00:01<00:00,  5.59it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.36it/s]

```

			all	82	156	0.874	0.887
0.944		0.565					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	42/99	1.92G	0.04233	0.02349	0	12
416:	100% 6/6	[00:01<00:00,	5.46it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.52it/s]		
		all	82	156	0.814	0.885
0.911		0.509				

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	43/99	1.92G	0.03881	0.02234	0	10
416:	100% 6/6	[00:01<00:00,	4.85it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.34it/s]		
		all	82	156	0.893	0.91
0.938		0.616				

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	44/99	1.92G	0.04201	0.01981	0	10
416:	100% 6/6	[00:01<00:00,	5.68it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.68it/s]		
		all	82	156	0.949	0.917
0.982		0.585				

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	45/99	1.92G	0.03257	0.02276	0	7
416:	100% 6/6	[00:01<00:00,	5.27it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.21it/s]		
		all	82	156	0.93	0.941
0.983		0.668				

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	46/99	1.92G	0.03478	0.01922	0	5
416:	100% 6/6	[00:01<00:00,	5.52it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.58it/s]		
		all	82	156	0.815	0.917
0.871		0.571				

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size						

```

      47/99      1.92G      0.03213      0.01749      0      3
416: 100% 6/6 [00:01<00:00,  5.60it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.43it/s]
      all      82      156      0.96      0.93
0.986      0.649

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances
Size
      48/99      1.92G      0.03703      0.02111      0      11
416: 100% 6/6 [00:01<00:00,  5.52it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.20it/s]
      all      82      156      0.931      0.962
0.973      0.575

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances
Size
      49/99      1.92G      0.03199      0.01787      0      4
416: 100% 6/6 [00:01<00:00,  5.17it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.25it/s]
      all      82      156      0.986      0.93
0.991      0.643

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances
Size
      50/99      1.92G      0.0334      0.01994      0      5
416: 100% 6/6 [00:01<00:00,  5.32it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.30it/s]
      all      82      156      0.962      0.967
0.984      0.635

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances
Size
      51/99      1.92G      0.0325      0.01826      0      7
416: 100% 6/6 [00:01<00:00,  5.01it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.36it/s]
      all      82      156      0.894      0.936
0.966      0.521

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss      Instances
Size
      52/99      1.92G      0.03802      0.01935      0      8
416: 100% 6/6 [00:01<00:00,  5.90it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.13it/s]
      all      82      156      0.974      0.959

```


0.99 0.716

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	53/99	1.92G	0.02769	0.01802	0	5
416:	100% 6/6	[00:01<00:00, 5.33it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.26it/s]		
	all		82	156	0.974	0.953

0.989 0.715

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	54/99	1.92G	0.03194	0.01681	0	4
416:	100% 6/6	[00:01<00:00, 5.70it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.28it/s]		
	all		82	156	0.913	0.937

0.979 0.658

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	55/99	1.92G	0.02833	0.01708	0	6
416:	100% 6/6	[00:01<00:00, 5.30it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.30it/s]		
	all		82	156	0.943	0.963

0.988 0.694

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	56/99	1.92G	0.02989	0.01665	0	3
416:	100% 6/6	[00:01<00:00, 5.15it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.62it/s]		
	all		82	156	0.989	0.981

0.993 0.731

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	57/99	1.92G	0.0275	0.01753	0	4
416:	100% 6/6	[00:01<00:00, 5.18it/s]				
	Class	Images	Instances	P	R	
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.14it/s]		
	all		82	156	0.981	0.984

0.994 0.722

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	58/99	1.92G	0.0301	0.01678	0	8

```

416: 100% 6/6 [00:01<00:00, 5.52it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.17it/s]
      all          82        156      0.981      0.985
0.994      0.727

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      59/99      1.92G     0.02826    0.01701          0          12
416: 100% 6/6 [00:01<00:00, 5.33it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.35it/s]
      all          82        156      0.966      0.987
0.993      0.679

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      60/99      1.92G     0.03415    0.02476          0          19
416: 100% 6/6 [00:01<00:00, 5.28it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.29it/s]
      all          82        156      0.979      0.987
0.994      0.724

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      61/99      1.92G     0.03079    0.01914          0          10
416: 100% 6/6 [00:01<00:00, 5.24it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.27it/s]
      all          82        156      0.987      0.982
0.994      0.733

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      62/99      1.92G     0.02797    0.01559          0           5
416: 100% 6/6 [00:01<00:00, 5.75it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.32it/s]
      all          82        156      0.994      0.985
0.995      0.751

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      63/99      1.92G     0.02809    0.01501          0           6
416: 100% 6/6 [00:01<00:00, 4.93it/s]
      Class      Images  Instances      P          R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00, 2.43it/s]
      all          82        156      0.994      0.981
0.994      0.748

```

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	64/99	1.92G	0.03051	0.02201	0	12
416:	100% 6/6	[00:01<00:00,	5.71it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.29it/s]		
		all	82	156	0.987	0.983
0.995	0.78					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	65/99	1.92G	0.03077	0.01749	0	8
416:	100% 6/6	[00:00<00:00,	6.04it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.09it/s]		
		all	82	156	0.999	0.974
0.994	0.775					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	66/99	1.92G	0.03107	0.01679	0	5
416:	100% 6/6	[00:00<00:00,	6.26it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.32it/s]		
		all	82	156	0.991	0.987
0.995	0.79					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	67/99	1.92G	0.02795	0.0158	0	5
416:	100% 6/6	[00:01<00:00,	5.63it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.15it/s]		
		all	82	156	0.988	0.974
0.995	0.768					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	68/99	1.92G	0.02982	0.01775	0	10
416:	100% 6/6	[00:01<00:00,	5.60it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.19it/s]		
		all	82	156	0.987	0.985
0.995	0.782					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	69/99	1.92G	0.02852	0.01508	0	10
416:	100% 6/6	[00:01<00:00,	5.22it/s]			

		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.48it/s]		
		all	82	156	0.969	0.993
0.994	0.708					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	70/99	1.92G	0.02667	0.01398	0	3
416:	100%	6/6	[00:01<00:00, 5.63it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.47it/s]		
		all	82	156	0.981	0.992
0.995	0.797					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	71/99	1.92G	0.02522	0.01524	0	8
416:	100%	6/6	[00:01<00:00, 5.35it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.20it/s]		
		all	82	156	0.997	0.981
0.995	0.751					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	72/99	1.92G	0.02688	0.01529	0	7
416:	100%	6/6	[00:01<00:00, 5.13it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.18it/s]		
		all	82	156	0.994	0.984
0.995	0.775					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	73/99	1.92G	0.02697	0.01493	0	6
416:	100%	6/6	[00:01<00:00, 5.34it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.56it/s]		
		all	82	156	0.994	0.981
0.995	0.772					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	74/99	1.92G	0.02836	0.01551	0	5
416:	100%	6/6	[00:01<00:00, 5.24it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100%	3/3	[00:01<00:00, 2.21it/s]		
		all	82	156	0.994	0.992
0.995	0.8					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	75/99	1.92G	0.02473	0.01493	0	8
416:	100% 6/6	[00:01<00:00,	4.91it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.28it/s]		
		all	82	156	0.994	0.992
0.995	0.799					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	76/99	1.92G	0.02797	0.01829	0	7
416:	100% 6/6	[00:01<00:00,	5.39it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.22it/s]		
		all	82	156	0.994	0.991
0.995	0.776					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	77/99	1.92G	0.02194	0.01476	0	7
416:	100% 6/6	[00:01<00:00,	5.32it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.10it/s]		
		all	82	156	0.994	0.993
0.995	0.799					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	78/99	1.92G	0.02552	0.01561	0	9
416:	100% 6/6	[00:01<00:00,	5.74it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.12it/s]		
		all	82	156	0.994	0.994
0.995	0.797					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	79/99	1.92G	0.02511	0.0166	0	10
416:	100% 6/6	[00:01<00:00,	4.95it/s]			
		Class	Images	Instances	P	R
mAP50	mAP50-95:	100% 3/3	[00:01<00:00,	2.36it/s]		
		all	82	156	0.995	0.987
0.995	0.793					

	Epoch	GPU_mem	box_loss	obj_loss	cls_loss	Instances
Size	80/99	1.92G	0.02481	0.01521	0	8
416:	100% 6/6	[00:01<00:00,	5.40it/s]			
		Class	Images	Instances	P	R

```

mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.06it/s]
              all          82          156          1          0.987
0.995      0.823

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      81/99      1.92G     0.02079    0.01435          0          3
416: 100% 6/6 [00:01<00:00, 5.01it/s]
      Class      Images  Instances          P          R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.31it/s]
              all          82          156      0.994      0.987
0.995      0.801

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      82/99      1.92G     0.02575    0.01552          0          8
416: 100% 6/6 [00:01<00:00, 5.76it/s]
      Class      Images  Instances          P          R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.25it/s]
              all          82          156      0.994      0.987
0.995      0.827

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      83/99      1.92G     0.02092    0.01337          0          2
416: 100% 6/6 [00:01<00:00, 4.72it/s]
      Class      Images  Instances          P          R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.18it/s]
              all          82          156      0.992      0.994
0.995      0.817

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      84/99      1.92G     0.02376    0.01515          0          6
416: 100% 6/6 [00:01<00:00, 4.93it/s]
      Class      Images  Instances          P          R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.21it/s]
              all          82          156      0.994      0.998
0.995      0.828

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
      85/99      1.92G     0.02089    0.01733          0          3
416: 100% 6/6 [00:01<00:00, 5.14it/s]
      Class      Images  Instances          P          R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.25it/s]
              all          82          156      0.994      0.999
0.995      0.832

```

```

      Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances

```

```

Size
      86/99      1.92G      0.0244      0.01796      0      11
416: 100% 6/6 [00:01<00:00,  5.42it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.43it/s]
      all      82      156      0.994      0.999
0.995      0.835

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances
Size
      87/99      1.92G      0.02337      0.01491      0      4
416: 100% 6/6 [00:01<00:00,  4.94it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.31it/s]
      all      82      156      0.994      0.999
0.995      0.814

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances
Size
      88/99      1.92G      0.0232      0.01537      0      7
416: 100% 6/6 [00:00<00:00,  6.12it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.00it/s]
      all      82      156      0.994      0.999
0.995      0.837

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances
Size
      89/99      1.92G      0.02122      0.01429      0      7
416: 100% 6/6 [00:01<00:00,  5.30it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.66it/s]
      all      82      156      0.994      0.999
0.995      0.838

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances
Size
      90/99      1.92G      0.0214      0.01468      0      5
416: 100% 6/6 [00:01<00:00,  5.85it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.17it/s]
      all      82      156      0.994      0.999
0.995      0.844

```

```

      Epoch      GPU_mem      box_loss      obj_loss      cls_loss  Instances
Size
      91/99      1.92G      0.02239      0.01589      0      12
416: 100% 6/6 [00:01<00:00,  5.04it/s]
      Class      Images  Instances      P      R
mAP50  mAP50-95: 100% 3/3 [00:01<00:00,  2.20it/s]

```

```

all      82      156      0.994      0.999
0.995      0.843

Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
92/99      1.92G      0.0222      0.01435      0      8
416: 100% 6/6 [00:01<00:00, 5.55it/s]
Class      Images Instances      P      R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.22it/s]
all      82      156      0.994      0.999
0.995      0.841

Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
93/99      1.92G      0.02203      0.01533      0      7
416: 100% 6/6 [00:01<00:00, 5.12it/s]
Class      Images Instances      P      R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.30it/s]
all      82      156      0.994      0.999
0.995      0.849

Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
94/99      1.92G      0.02362      0.01648      0      9
416: 100% 6/6 [00:01<00:00, 5.84it/s]
Class      Images Instances      P      R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 1.99it/s]
all      82      156      0.994      0.999
0.995      0.851

Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
95/99      1.92G      0.02105      0.01367      0      8
416: 100% 6/6 [00:02<00:00, 2.74it/s]
Class      Images Instances      P      R
mAP50      mAP50-95: 100% 3/3 [00:02<00:00, 1.19it/s]
all      82      156      0.994      0.999
0.995      0.852

Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size
96/99      1.92G      0.02077      0.01384      0      4
416: 100% 6/6 [00:01<00:00, 4.16it/s]
Class      Images Instances      P      R
mAP50      mAP50-95: 100% 3/3 [00:01<00:00, 2.17it/s]
all      82      156      0.994      0.999
0.995      0.855

Epoch    GPU_mem    box_loss    obj_loss    cls_loss    Instances
Size

```



```

          97/99          1.92G      0.01859      0.0136          0          5
416: 100% 6/6 [00:01<00:00,  5.38it/s]
          Class      Images  Instances          P          R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00,  2.56it/s]
          all          82          156      0.994      0.999
0.995      0.854

```

```

          Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
          98/99          1.92G      0.02421      0.02179          0          18
416: 100% 6/6 [00:01<00:00,  5.79it/s]
          Class      Images  Instances          P          R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00,  2.12it/s]
          all          82          156      0.994      0.999
0.995      0.857

```

```

          Epoch      GPU_mem    box_loss    obj_loss    cls_loss  Instances
Size
          99/99          1.92G      0.02121      0.0175          0          11
416: 100% 6/6 [00:01<00:00,  5.10it/s]
          Class      Images  Instances          P          R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00,  2.27it/s]
          all          82          156      0.994          1
0.995      0.852

```

100 epochs completed in 0.090 hours.

Optimizer stripped from runs/train/exp/weights/last.pt, 14.3MB

Optimizer stripped from runs/train/exp/weights/best.pt, 14.3MB

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

Fusing layers...


Model summary: 157 layers, 7012822 parameters, 0 gradients, 15.8 GFL
OPs

```

          Class      Images  Instances          P          R
mAP50    mAP50-95: 100% 3/3 [00:01<00:00,  1.72it/s]
          all          82          156      0.994      0.999
0.995      0.857

```

Results saved to **runs/train/exp**

In [8]:  jupyter nbconvert --to html /content/gdrive/MyDrive/Colab Notebooks/yolov5customobj.ipynb

[NbConvertApp] WARNING | pattern '/content/gdrive/MyDrive/Colab' matched no files

[NbConvertApp] WARNING | pattern 'Notebooks/yolov5customobj.ipynb' matched no files

This application is used to convert notebook files (*.ipynb)
to various other formats.

WARNING: THE COMMANDLINE INTERFACE MAY CHANGE IN FUTURE RELEASE

ASES.

Options

=====

The options below are convenience aliases to configurable class-options, as listed in the "Equivalent to" description-line of the aliases. To see all configurable class-options for some <cmd>, use:

<cmd> --help-all

--debug

set log level to logging.DEBUG (maximize logging output)

Equivalent to: [--Application.log_level=10]

--show-config

Show the application's configuration (human-readable format)

Equivalent to: [--Application.show_config=True]

--show-config-json

Show the application's configuration (json format)

Equivalent to: [--Application.show_config_json=True]

--generate-config

generate default config file

Equivalent to: [--JupyterApp.generate_config=True]

-y

Answer yes to any questions instead of prompting.

Equivalent to: [--JupyterApp.answer_yes=True]

--execute

Execute the notebook prior to export.

Equivalent to: [--ExecutePreprocessor.enabled=True]

--allow-errors

Continue notebook execution even if one of the cells throws an error and include the error message in the cell output (the default behaviour is to abort conversion). This flag is only relevant if '--execute' was specified, too.

Equivalent to: [--ExecutePreprocessor.allow_errors=True]

--stdin

read a single notebook file from stdin. Write the resulting notebook with default basename 'notebook.*'

Equivalent to: [--NbConvertApp.from_stdin=True]

--stdout

Write notebook output to stdout instead of files.

Equivalent to: [--NbConvertApp.writer_class=StdoutWriter]

--inplace

Run nbconvert in place, overwriting the existing notebook (only relevant when converting to notebook format)

Equivalent to: [--NbConvertApp.use_output_suffix=False --NbConvertApp.export_format=notebook --FilesWriter.build_directory=]

--clear-output

Clear output of current file and save in place, overwriting the existing notebook.

Equivalent to: [--NbConvertApp.use_output_suffix=False --NbConve

```

rtApp.export_format=notebook --FilesWriter.build_directory= --ClearO
utputPreprocessor.enabled=True]
--no-prompt
    Exclude input and output prompts from converted document.
    Equivalent to: [--TemplateExporter.exclude_input_prompt=True --T
emplateExporter.exclude_output_prompt=True]
--no-input
    Exclude input cells and output prompts from converted document.
    This mode is ideal for generating code-free reports.
    Equivalent to: [--TemplateExporter.exclude_output_prompt=True --
TemplateExporter.exclude_input=True]
--log-level=<Enum>
    Set the log level by value or name.
    Choices: any of [0, 10, 20, 30, 40, 50, 'DEBUG', 'INFO', 'WARN',
'ERROR', 'CRITICAL']
    Default: 30
    Equivalent to: [--Application.log_level]
--config=<Unicode>
    Full path of a config file.
    Default: ''
    Equivalent to: [--JupyterApp.config_file]
--to=<Unicode>
    The export format to be used, either one of the built-in formats
    ['asciidoc', 'custom', 'html', 'latex', 'markdown', 'not
ebook', 'pdf', 'python', 'rst', 'script', 'slides']
    or a dotted object name that represents the import path
    for an
        `Exporter` class
    Default: 'html'
    Equivalent to: [--NbConvertApp.export_format]
--template=<Unicode>
    Name of the template file to use
    Default: ''
    Equivalent to: [--TemplateExporter.template_file]
--writer=<DottedObjectName>
    Writer class used to write the
        results of the conversion
    Default: 'FilesWriter'
    Equivalent to: [--NbConvertApp.writer_class]
--post=<DottedOrNone>
    PostProcessor class used to write the
        results of the conversion
    Default: ''
    Equivalent to: [--NbConvertApp.postprocessor_class]
--output=<Unicode>
    overwrite base name use for output files.
    can only be used when converting one notebook at a t
ime.
    Default: ''
    Equivalent to: [--NbConvertApp.output_base]

```

```

--output-dir=<Unicode>
    Directory to write output(s) to. Defaults
    to output to the directory of each
notebook. To recover
    previous default behaviour (output
ting to the current
    working directory) use . as the fl
ag value.
    Default: ''
    Equivalent to: [--FilesWriter.build_directory]
--reveal-prefix=<Unicode>
    The URL prefix for reveal.js (version 3.x).
    This defaults to the reveal CDN, but can be any url poin
ting to a copy
    of reveal.js.
    For speaker notes to work, this must be a relative path
to a local
    copy of reveal.js: e.g., "reveal.js".
    If a relative path is given, it must be a subdirectory o
f the
    current directory (from which the server is run).
    See the usage documentation
    (https://nbconvert.readthedocs.io/en/latest/usage.html#r
eveal-js-html-slideshow)
    for more details.
    Default: ''
    Equivalent to: [--SlidesExporter.reveal_url_prefix]
--nbformat=<Enum>
    The nbformat version to write.
    Use this to downgrade notebooks.
    Choices: any of [1, 2, 3, 4]
    Default: 4
    Equivalent to: [--NotebookExporter.nbformat_version]

```

Examples

The simplest way to use nbconvert is

```
> jupyter nbconvert mynotebook.ipynb
```

which will convert mynotebook.ipynb to the default forma
t (probably HTML).

You can specify the export format with `--to`.
Options include ['asciidoc', 'custom', 'html', 'latex',
'markdown', 'notebook', 'pdf', 'python', 'rst', 'script', 'slides'].

```
> jupyter nbconvert --to latex mynotebook.ipynb
```

Both HTML and LaTeX support multiple output templates. LaTeX includes 'base', 'article' and 'report'. HTML includes 'basic' and 'full'. You can specify the flavor of the format used.

```
> jupyter nbconvert --to html --template basic mynotebook.ipynb
```

You can also pipe the output to stdout, rather than a file

```
> jupyter nbconvert mynotebook.ipynb --stdout
```

PDF is generated via latex

```
> jupyter nbconvert mynotebook.ipynb --to pdf
```

You can get (and serve) a Reveal.js-powered slideshow

```
> jupyter nbconvert myslides.ipynb --to slides --post serve
```

Multiple notebooks can be given at the command line in a couple of different ways:

```
> jupyter nbconvert notebook*.ipynb
> jupyter nbconvert notebook1.ipynb notebook2.ipynb
```

or you can specify the notebooks list in a config file, containing::

```
c.NbConvertApp.notebooks = ["my_notebook.ipynb"]
```

```
> jupyter nbconvert --config mycfg.py
```

To see all available configurables, use `--help-all`.