

```
In [1]: import torch
from matplotlib import pyplot as plt
import numpy as np
import cv2

In [2]: import uuid # Unique identifier
import os
import time

In [14]: IMAGES_PATH = os.path.join('data', 'images') #/data/images
labels = ['awake', 'drowsy']
number_imgs = 20

In [15]: cap = cv2.VideoCapture(0)
# Loop through labels
for label in labels:
    print('Collecting images for {}'.format(label))
    time.sleep(5)

    # Loop through image range
    for img_num in range(number_imgs):
        print('Collecting images for {}, image number {}'.format(label, img_num))

        # Webcam feed
        ret, frame = cap.read()

        # Naming out image path
        imgname = os.path.join(IMAGES_PATH, label+'_'+str(uuid.uuid1())+'.jpg')

        # Writes out image to file
        cv2.imwrite(imgname, frame)

        # Render to the screen
        cv2.imshow('Image Collection', frame)

        # 2 second delay between captures
        time.sleep(2)

        if cv2.waitKey(10) & 0xFF == ord('q'):
            break
cap.release()
cv2.destroyAllWindows()

Collecting images for awake
Collecting images for awake, image number 0
Collecting images for awake, image number 1
Collecting images for awake, image number 2
Collecting images for awake, image number 3
Collecting images for awake, image number 4
Collecting images for awake, image number 5
Collecting images for awake, image number 6
Collecting images for awake, image number 7
Collecting images for awake, image number 8
Collecting images for awake, image number 9
Collecting images for awake, image number 10
Collecting images for awake, image number 11
Collecting images for awake, image number 12
Collecting images for awake, image number 13
Collecting images for awake, image number 14
Collecting images for awake, image number 15
Collecting images for awake, image number 16
Collecting images for awake, image number 17
Collecting images for awake, image number 18
Collecting images for awake, image number 19
Collecting images for drowsy
Collecting images for drowsy, image number 0
Collecting images for drowsy, image number 1
Collecting images for drowsy, image number 2
Collecting images for drowsy, image number 3
Collecting images for drowsy, image number 4
Collecting images for drowsy, image number 5
Collecting images for drowsy, image number 6
Collecting images for drowsy, image number 7
Collecting images for drowsy, image number 8
Collecting images for drowsy, image number 9
Collecting images for drowsy, image number 10
Collecting images for drowsy, image number 11
Collecting images for drowsy, image number 12
Collecting images for drowsy, image number 13
Collecting images for drowsy, image number 14
Collecting images for drowsy, image number 15
Collecting images for drowsy, image number 16
Collecting images for drowsy, image number 17
Collecting images for drowsy, image number 18
Collecting images for drowsy, image number 19

In [16]: print(os.path.join(IMAGES_PATH, labels[0]+'_'+str(uuid.uuid1())+'.jpg'))

data\images\awake.eb3f0a8d-2fd8-11ec-952d-4cebbd4e1c38.jpg

In [17]: for label in labels:
    print('Collecting images for {}'.format(label))
    for img_num in range(number_imgs):
        print('Collecting images for {}, image number {}'.format(label, img_num))
        imgname = os.path.join(IMAGES_PATH, label+'_'+str(uuid.uuid1())+'.jpg')
        print(imgname)

Collecting images for awake
Collecting images for awake, image number 0
data\images\awake.f2f36563-2fd8-11ec-bb4e-4cebbd4e1c38.jpg
Collecting images for awake, image number 1
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 2
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 3
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 4
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 5
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 6
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 7
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 8
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 9
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 10
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 11
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 12
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 13
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 14
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 15
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 16
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 17
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 18
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for awake, image number 19
data\images\awake.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy
Collecting images for drowsy, image number 0
data\images\drowsy.f2f36563-2fd8-11ec-bb4e-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 1
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 2
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 3
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 4
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 5
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 6
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 7
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 8
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 9
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 10
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 11
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 12
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 13
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 14
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 15
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 16
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 17
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 18
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg
Collecting images for drowsy, image number 19
data\images\drowsy.f2f36564-2fd8-11ec-9038-4cebbd4e1c38.jpg

In [19]: !git clone https://github.com/tzutalin/labelImg

Cloning into 'labelImg'...

In [21]: !pip install pyqt5 lxml --upgrade
!cd labelImg && pyrcrc5 -o libs/resources.py resources.qrc

Requirement already satisfied: pyqt5 in c:\users\hp\anaconda3\lib\site-packages (5.15.4)
Requirement already satisfied: lxml in c:\users\hp\anaconda3\lib\site-packages (4.6.3)
Requirement already satisfied: PyQt5-sip<13,>=12.8 in c:\users\hp\anaconda3\lib\site-packages (from pyqt5) (12.9.0)
Requirement already satisfied: PyQt5-Qt5<=5.15 in c:\users\hp\anaconda3\lib\site-packages (from pyqt5) (5.15.2)

In [25]: !cd yolov5 && python train.py --img 320 --batch 16 --epochs 5 --data datasets.yaml --weights yolov5s.pt --workers 2

YOLOv5 v6.0-16-g6d9b99f torch 1.8.2+cu102 CPU
train: weights=yolov5s.pt, cfg=datasets.yaml, hyp=data\hyp\hyp.scratch.yaml, epochs=5, batch_size=16, imgs=320, rect=False, resume=False, nosave=False,
novals=False, noautoanchor=False, evolve=None, buckets=None, cache=None, image_weights=False, device=, multi_scale=False, single_cls=False, adam=False, sync_bn=False,
workers=2, project=runs\train, name=exp, exist_ok=False, quad=False, linear_lr=False, label_smoothing=0.0, patience=100, freeze=0, save_period=-1, local_rank=-1,
entity=None, upload_dataset=False, bbox_interval=-1, artifact_alias=latest
github: YOLOv5 is out of date by 1 commit. Use 'git pull' or 'git clone https://github.com/ultralytics/yolov5' to update.
Weights & Biases: Run 'pip install wandb' to automatically track and visualize YOLOv5 runs (RECOMMENDED)
Plotting labels...

autoanchor: Analyzing anchors... anchors/target = 5.65, Best Possible Recall (BPR) = 1.0000
all 40 40 0.00288 0.2 0.00203 0.00061
all 40 40 0.00318 0.225 0.00234 0.000578
all 40 40 0.00377 0.275 0.0032 0.000676
all 40 40 0.00441 0.325 0.00405 0.000759
all 40 40 0.00483 0.35 0.00505 0.00087
Optimizer stripped from runs\train\exp11\weights\last.pt, 14.4MB
Optimizer stripped from runs\train\exp11\weights\best.pt, 14.4MB
all 40 40 0.00485 0.35 0.005 0.000894
awake 40 20 0 0 0 0
drowsy 40 20 0.00971 0.7 0.01 0.00179

hyperparameters: lr=0.01, lrpf=0.1, momentum=0.937, weight_decay=0.0005, warmup_epochs=3.0, warmup_momentum=0.0, 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
TensorBoard: Start with 'tensorboard -logdir runs\train', view at http://localhost:6006/
Overriding model.yaml nc=80 with nc=17

from n params module arguments
0 -1 1 3520 models.common.Conv [3, 32, 6, 2, 2]
1 -1 1 18560 models.common.Conv [32, 64, 3, 2]
2 -1 1 18816 models.common.Conv [64, 64, 1]
3 -1 1 73904 models.common.Conv [64, 128, 3, 2]
4 -1 2 115712 models.common.Conv [128, 128, 2]
5 -1 1 295424 models.common.Conv [128, 256, 3, 2]
6 -1 3 625152 models.common.Conv [256, 256, 3]
7 -1 1180672 models.common.Conv [256, 512, 3, 2]
8 -1 1182720 models.common.Conv [512, 512, 1]
9 -1 1 656896 models.common.SPP [512, 512, 5]
10 -1 1 131584 models.common.Conv [512, 256, 1, 1]
11 -1 1 0 torch.nn.modules.upsampling.Upsample [1]
12 [-1, 6] 1 0 models.common.Concat [512, 256, 1, False]
13 -1 1 361984 models.common.Conv [512, 256, 1, False]
14 -1 1 33024 models.common.Conv [256, 128, 1, 1]
15 -1 1 0 torch.nn.modules.upsampling.Upsample [None, 2, 'nearest']
16 [-1, 4] 1 0 models.common.Concat [1]
17 1 90880 models.common.Conv [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.Conv [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.Conv [512, 512, 1, False]
24 [17, 20, 23] 1 59334 models.yolo.Detect [17, [[10, 13, 16, 30, 33, 23], [30, 61, 62, 45, 59, 119], [118, 90, 156, 198, 373, 326]], [128, 256, 512]]
Model Summary: 270 layers, 7065478 parameters, 7065478 gradients, 16.0 GFLOPs

Transferred 343/349 items from yolov5s.pt
Scaled weight_decay = 0.0005
optimizer: SGD with parameter groups 57 weight, 60 weight (no decay), 60 bias

train: Scanning './data\labels' images and labels... 0% | 0/40 [00:00<, ?it/s]
train: Scanning './data\labels' images and labels... 1 found, 0 missing, 0 empty, 0 corrupted: 2%|2 | 1/40 [00:13<08:41, 13.36s/it]
train: Scanning './data\labels' images and labels... 2 found, 0 missing, 0 empty, 0 corrupted: 5%|5 | 2/40 [00:13<03:41, 5.84s/it]
train: Scanning './data\labels' images and labels... 23 found, 0 missing, 0 empty, 0 corrupted: 57%|##### | 23/40 [00:14<00:05, 3.10it/s]
train: Scanning './data\labels' images and labels... 30 found, 0 missing, 0 empty, 0 corrupted: 75%|##### | 30/40 [00:14<00:02, 4.10it/s]
train: Scanning './data\labels' images and labels... 40 found, 0 missing, 0 empty, 0 corrupted: 100%|##### | 40/40 [00:14<00:00, 2.76it/s]
train: New cache created: './data\labels.cache'

val: Scanning './data\labels.cache' images and labels... 40 found, 0 missing, 0 empty, 0 corrupted: 100%|##### | 40/40 [00:00<, ?it/s]
val: Scanning './data\labels.cache' images and labels... 40 found, 0 missing, 0 empty, 0 corrupted: 100%|##### | 40/40 [00:15<, ?it/s]
Image sizes 320 train, 320 val
Using 2 dataloader workers
Logging results to runs\train\exp11
Starting training for 5 epochs...

Epoch gpu_mem box obj cls labels img_size
0% | 0/3 [00:00<, ?it/s]
0/4 0G 0.1185 0.01441 0.07976 32 320: 0% | 0/3 [00:08<, ?it/s]
0/4 0G 0.1185 0.01441 0.07976 32 320: 33%|### | 1/3 [00:16<00:32, 16.15s/it]
0/4 0G 0.1172 0.01573 0.07936 35 320: 33%|### | 1/3 [00:23<00:32, 16.15s/it]
0/4 0G 0.1172 0.01573 0.07936 35 320: 67%|##### | 2/3 [00:23<00:11, 11.20s/it]
0/4 0G 0.1185 0.01469 0.0803 11 320: 67%|##### | 2/3 [00:14<00:07, 7.48s/it]
0/4 0G 0.1159 0.01469 0.0803 11 320: 100%|##### | 3/3 [00:19<00:00, 6.13s/it]
0/4 0G 0.1159 0.01469 0.0803 11 320: 100%|##### | 3/3 [00:28<00:00, 0.43s/it]

Class Images Labels P R mAP@0.5 mAP@0.5:95: 0%| | 0/2 [00:00<, ?it/s]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 50%|##### | 1/2 [00:05<00:05, 7.25s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:06<00:00, 3.86s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:08<00:00, 4.37s/it]

Epoch gpu_mem box obj cls labels img_size
0% | 0/3 [00:00<, ?it/s]
1/4 0G 0.1189 0.01522 0.07801 35 320: 0% | 0/3 [00:07<, ?it/s]
1/4 0G 0.1189 0.01522 0.07801 35 320: 33%|### | 1/3 [00:07<00:15, 7.92s/it]
1/4 0G 0.112 0.01477 0.07837 30 320: 33%|### | 1/3 [00:15<00:15, 7.92s/it]
1/4 0G 0.1178 0.01479 0.07804 15 320: 67%|##### | 2/3 [00:15<00:07, 7.78s/it]
1/4 0G 0.1178 0.01479 0.07804 15 320: 67%|##### | 2/3 [00:19<00:07, 7.78s/it]
1/4 0G 0.1178 0.01479 0.07804 15 320: 100%|##### | 3/3 [00:19<00:00, 6.04s/it]
1/4 0G 0.1178 0.01479 0.07804 15 320: 100%|##### | 3/3 [00:19<00:00, 6.52s/it]

Class Images Labels P R mAP@0.5 mAP@0.5:95: 0%| | 0/2 [00:00<, ?it/s]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 50%|##### | 1/2 [00:05<00:05, 5.60s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.43s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:06<00:00, 3.47s/it]

Epoch gpu_mem box obj cls labels img_size
0% | 0/3 [00:00<, ?it/s]
2/4 0G 0.1142 0.0166 0.08022 34 320: 0% | 0/3 [00:07<, ?it/s]
2/4 0G 0.1142 0.0166 0.08022 34 320: 33%|### | 1/3 [00:07<00:15, 7.87s/it]
2/4 0G 0.1124 0.01562 0.07956 28 320: 33%|### | 1/3 [00:15<00:15, 7.87s/it]
2/4 0G 0.1124 0.01562 0.07956 28 320: 67%|##### | 2/3 [00:15<00:07, 7.69s/it]
2/4 0G 0.114 0.01634 0.07874 21 320: 67%|##### | 2/3 [00:19<00:07, 7.69s/it]
2/4 0G 0.114 0.01634 0.07874 21 320: 100%|##### | 3/3 [00:19<00:00, 6.13s/it]
2/4 0G 0.114 0.01634 0.07874 21 320: 100%|##### | 3/3 [00:19<00:00, 6.57s/it]

Class Images Labels P R mAP@0.5 mAP@0.5:95: 0%| | 0/2 [00:00<, ?it/s]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 50%|##### | 1/2 [00:05<00:05, 5.50s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:06<00:00, 3.25s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:06<00:00, 3.31s/it]

Epoch gpu_mem box obj cls labels img_size
0% | 0/3 [00:00<, ?it/s]
3/4 0G 0.1101 0.01712 0.07608 34 320: 0% | 0/3 [00:07<, ?it/s]
3/4 0G 0.1101 0.01712 0.07608 34 320: 33%|### | 1/3 [00:07<00:14, 7.37s/it]
3/4 0G 0.1118 0.01597 0.07737 28 320: 33%|### | 1/3 [00:14<00:14, 7.37s/it]
3/4 0G 0.1118 0.01597 0.07737 28 320: 67%|##### | 2/3 [00:14<00:07, 7.48s/it]
3/4 0G 0.1117 0.01651 0.07708 17 320: 67%|##### | 2/3 [00:19<00:07, 7.48s/it]
3/4 0G 0.1117 0.01651 0.07708 17 320: 100%|##### | 3/3 [00:19<00:00, 6.16s/it]
3/4 0G 0.1117 0.01651 0.07708 17 320: 100%|##### | 3/3 [00:19<00:00, 6.50s/it]

Class Images Labels P R mAP@0.5 mAP@0.5:95: 0%| | 0/2 [00:00<, ?it/s]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 50%|##### | 1/2 [00:05<00:05, 5.60s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.62s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.62s/it]

Epoch gpu_mem box obj cls labels img_size
0% | 0/3 [00:00<, ?it/s]
4/4 0G 0.1109 0.01486 0.0771 28 320: 0% | 0/3 [00:08<, ?it/s]
4/4 0G 0.1109 0.01486 0.0771 28 320: 33%|### | 1/3 [00:16<00:16, 8.32s/it]
4/4 0G 0.11 0.01649 0.07595 39 320: 33%|### | 1/3 [00:16<00:16, 8.32s/it]
4/4 0G 0.1 0.01649 0.07595 39 320: 67%|##### | 2/3 [00:16<00:08, 8.18s/it]
4/4 0G 0.108 0.01827 0.07701 21 320: 67%|##### | 2/3 [00:20<00:08, 8.18s/it]
4/4 0G 0.108 0.01827 0.07701 21 320: 100%|##### | 3/3 [00:20<00:00, 6.38s/it]
4/4 0G 0.108 0.01827 0.07701 21 320: 100%|##### | 3/3 [00:20<00:00, 6.88s/it]

Class Images Labels P R mAP@0.5 mAP@0.5:95: 0%| | 0/2 [00:00<, ?it/s]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 50%|##### | 1/2 [00:05<00:05, 5.78s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.26s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.66s/it]

5 epochs completed in 0.042 hours.
Validating runs\train\exp11\weights\best.pt...
Fusing layers...
Model Summary: 213 layers, 7055974 parameters, 0 gradients, 15.9 GFLOPs

Class Images Labels P R mAP@0.5 mAP@0.5:95: 0%| | 0/2 [00:00<, ?it/s]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 50%|##### | 1/2 [00:05<00:05, 5.50s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.22s/it]
Class Images Labels P R mAP@0.5 mAP@0.5:95: 100%|##### | 2/2 [00:07<00:00, 3.56s/it]
Results saved to runs\train\exp11

In [26]: model = torch.hub.load('ultralytics/yolov5', 'custom', path='yolov5/runs/train/exp11/weights/last.pt', force_reload=True)

Downloading: "https://github.com/ultralytics/yolov5/archive/master.zip" to C:\Users\hp\.cache\torch\hub\master.zip
YOLOv5 2021-10-18 torch 1.8.2+cu102 CPU

Fusing layers...
Model Summary: 213 layers, 7055974 parameters, 0 gradients, 15.9 GFLOPs
Adding AutoShape...

In [32]: cap = cv2.VideoCapture(0)
while cap.isOpened():
    ret, frame = cap.read()

    # Make detections
    results = model(frame)

    cv2.imshow('YOLO', np.squeeze(results.render()))

    if cv2.waitKey(10) & 0xFF == ord('q'):
        break
cap.release()
cv2.destroyAllWindows()

In [ ]:
```