

```
from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
!ls '/content/drive/My Drive'
```

```
ivzi  nuts-detect  yolo.zip
```

```
!unzip '/content/drive/My Drive/yolo.zip' -d '/content/drive/My Drive/nuts-detect'
```

```
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/48img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/53img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/54img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/55img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/56img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/57img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/58img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/59img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/5img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/60img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/65img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/66img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/67img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/68img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/69img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/6img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/70img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/71img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/72img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/73img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/74img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/75img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/76img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/77img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/78img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/79img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/7img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/80img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/81img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/82img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/83img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/84img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/85img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/86img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/87img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/88img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/89img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/8img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/90img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/91img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/92img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/93img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/94img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/95img.txt
```

```

inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/95img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/96img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/97img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/98img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/99img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017/9img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/train2017.cache
creating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/13img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/14img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/15img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/16img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/1img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/241img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/242img.txt
inflating: /content/drive/My Drive/nuts-detect/yolo/coco/labels/val2017/243img.txt

```

```
%cd /content/drive/MyDrive/nuts-detect/yolo
```

```
%pwd
```

```

/content/drive/MyDrive/nuts-detect/yolo
'/content/drive/MyDrive/nuts-detect/yolo'

```

```
!pip install thop
```

```
!pip install PyYAML==5.3.1
```

```
Collecting thop
```

```
Downloading https://files.pythonhosted.org/packages/6c/8b/22ce44e1c71558161a8bd544711
```

```
Requirement already satisfied: torch>=1.0.0 in /usr/local/lib/python3.6/dist-packages (
```

```
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.6/dist-packa
```

```
Requirement already satisfied: numpy in /usr/local/lib/python3.6/dist-packages (from to
```

```
Requirement already satisfied: dataclasses in /usr/local/lib/python3.6/dist-packages (f
```

```
Requirement already satisfied: future in /usr/local/lib/python3.6/dist-packages (from t
```

```
Installing collected packages: thop
```

```
Successfully installed thop-0.0.31.post2005241907
```

```
Collecting PyYAML==5.3.1
```

```
Downloading https://files.pythonhosted.org/packages/64/c2/b80047c7ac2478f9501676c988a
```

```
|████████████████████████████████████████| 276kB 12.0MB/s
```

```
Building wheels for collected packages: PyYAML
```

```
Building wheel for PyYAML (setup.py) ... done
```

```
Created wheel for PyYAML: filename=PyYAML-5.3.1-cp36-cp36m-linux_x86_64.whl size=4462
```

```
Stored in directory: /root/.cache/pip/wheels/a7/c1/ea/cf5bd31012e735dc1dfea3131a2d5ea
```

```
Successfully built PyYAML
```

```
Installing collected packages: PyYAML
```

```
Found existing installation: PyYAML 3.13
```

```
Uninstalling PyYAML-3.13:
```

```
Successfully uninstalled PyYAML-3.13
```

```
Successfully installed PyYAML-5.3.1
```

```
%cd yolov5
```

```
/content/drive/MyDrive/nuts-detect/yolo/yolov5
```


0/4	0G	0.1242	0.1458	0.03106	0.3011	567	640: 100
	Class	Images	Targets		P	R	mAP@.5 mAP
	all	44	857	0.0171	0.0962	0.00461	0

```
!python detect.py --img 640 --source /content/drive/MyDrive/nuts-detect/yolo/test_nut --weig
```

```
Namespace(agnostic_nms=False, augment=False, classes=None, conf_thres=0.25, device='',
YOLOv5 v4.0-76-g17ac94b torch 1.7.0+cu101 CPU
```

```
Fusing layers...
```

```
Model Summary: 224 layers, 7056607 parameters, 0 gradients, 16.3 GFLOPS
```

```
image 1/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_025523.jpg: 640x48
image 2/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_025531.jpg: 640x48
image 3/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_025540.jpg: 640x48
image 4/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_025547.jpg: 640x48
image 5/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_025556.jpg: 640x48
image 6/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_025625.jpg: 640x48
image 7/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102023.jpg: 640x48
image 8/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102030.jpg: 640x48
image 9/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102051.jpg: 480x64
image 10/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102102.jpg: 480x6
image 11/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102124.jpg: 640x4
image 12/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102202.jpg: 480x6
image 13/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102216.jpg: 480x6
image 14/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_102222.jpg: 480x6
image 15/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_201757.jpg: 640x4
image 16/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_202159.jpg: 640x4
image 17/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_202401.jpg: 640x4
image 18/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_202418.jpg: 640x4
image 19/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/20210211_202422.jpg: 480x6
image 20/20 /content/drive/MyDrive/nuts-detect/yolo/test_nut/hsvtest.jpg: 640x544 10 uz
```

```
Results saved to runs/detect/exp6
```

```
Done. (21.122s)
```

