

▼ Yolo V5 con imágenes

```
#Code based on: https://pytorch.org/hub/ultralytics_yolov5/
import torch

# Model
model = torch.hub.load('ultralytics/yolov5', 'yolov5s', pretrained=True)

# Images
imgs = ['https://ultralytics.com/images/zidane.jpg'] # batch of images

# Inference
results = model(imgs)

# Results
results.print()
results.show() # or .show()

results.xyxy[0] # img1 predictions (tensor)
results.pandas().xyxy[0] # img1 predictions (pandas)
#   xmin    ymin    xmax    ymax  confidence  class  name
# 0  749.50  43.50  1148.0  704.5    0.874023      0  person
# 1  433.50  433.50   517.5  714.5    0.687988     27    tie
# 2  114.75  195.75  1095.0  708.0    0.624512      0  person
# 3  986.00  304.00  1028.0  420.0    0.286865     27    tie

/usr/local/lib/python3.10/dist-packages/torch/hub.py:286: UserWarning: You are about
  warnings.warn(
Downloading: "https://github.com/ultralytics/yolov5/zipball/master" to /root/.cache/
requirements: Ultralytics requirement ['gitpython>=3.1.30'] not found, attempting Au
Collecting gitpython>=3.1.30
  Downloading GitPython-3.1.37-py3-none-any.whl (190 kB)
           190.0/190.0 kB 4.9 MB/s eta 0:00:00
Collecting gitdb<5,>=4.0.1 (from gitpython>=3.1.30)
  Downloading gitdb-4.0.10-py3-none-any.whl (62 kB)
           62.7/62.7 kB 204.8 MB/s eta 0:00:00
Collecting smmap<6,>=3.0.1 (from gitdb<5,>=4.0.1->gitpython>=3.1.30)
  Downloading smmap-5.0.1-py3-none-any.whl (24 kB)
Installing collected packages: smmap, gitdb, gitpython
Successfully installed gitdb-4.0.10 gitpython-3.1.37 smmap-5.0.1

requirements: AutoUpdate success ✅ 4.5s, installed 1 package: ['gitpython>=3.1.30']
requirements: ⚠ Restart runtime or rerun command for updates to take effect

YOLOv5 🚀 2023-10-8 Python-3.10.12 torch-2.0.1+cu118 CUDA:0 (Tesla T4, 15102MiB)

Downloading https://github.com/ultralytics/yolov5/releases/download/v7.0/yolov5s.pt
100%|██████████| 14.1M/14.1M [00:00<00:00, 133MB/s]
```

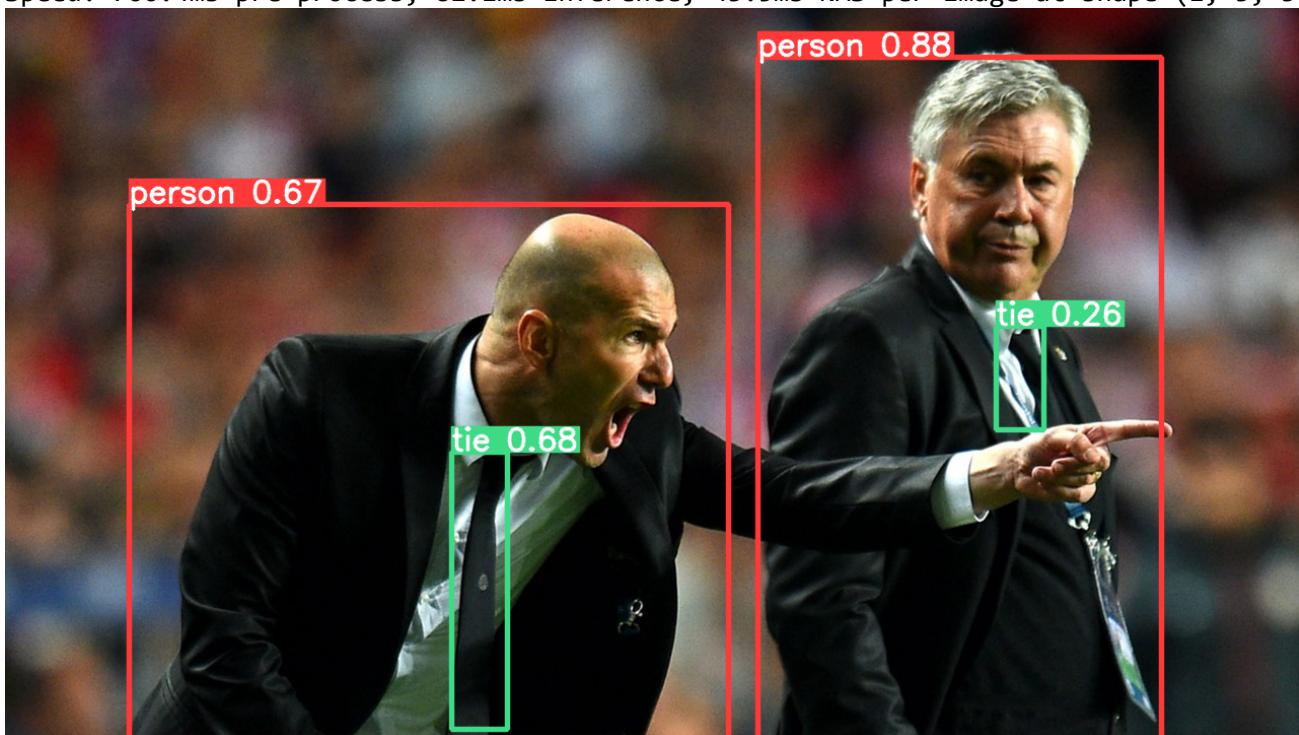
Fusing layers...

YOLOv5s summary: 213 layers, 7225885 parameters, 0 gradients

Adding AutoShape...

image 1/1: 720x1280 2 persons, 2 ties

Speed: 766.4ms pre-process, 82.1ms inference, 43.5ms NMS per image at shape (1, 3, 384, 720)

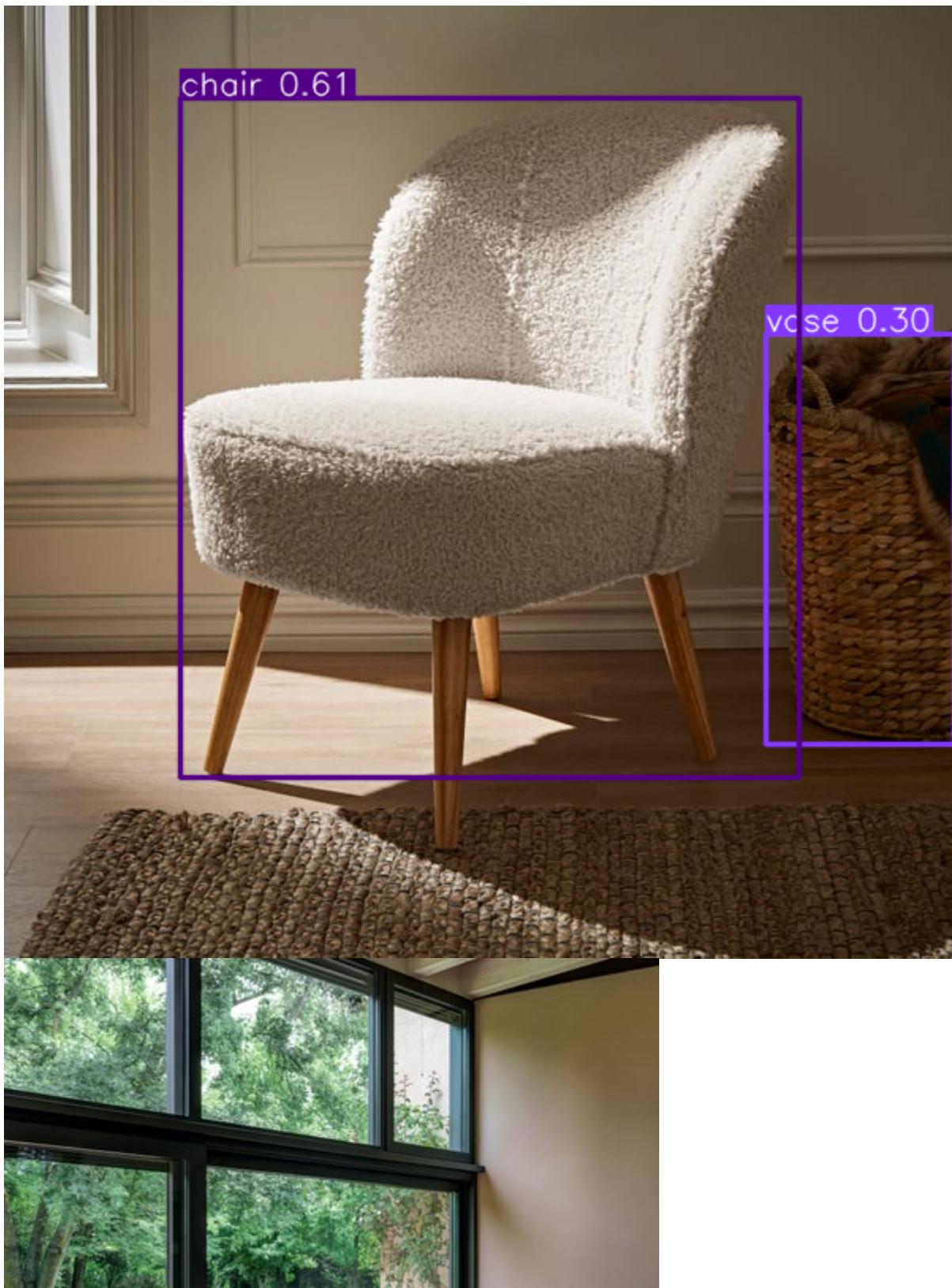


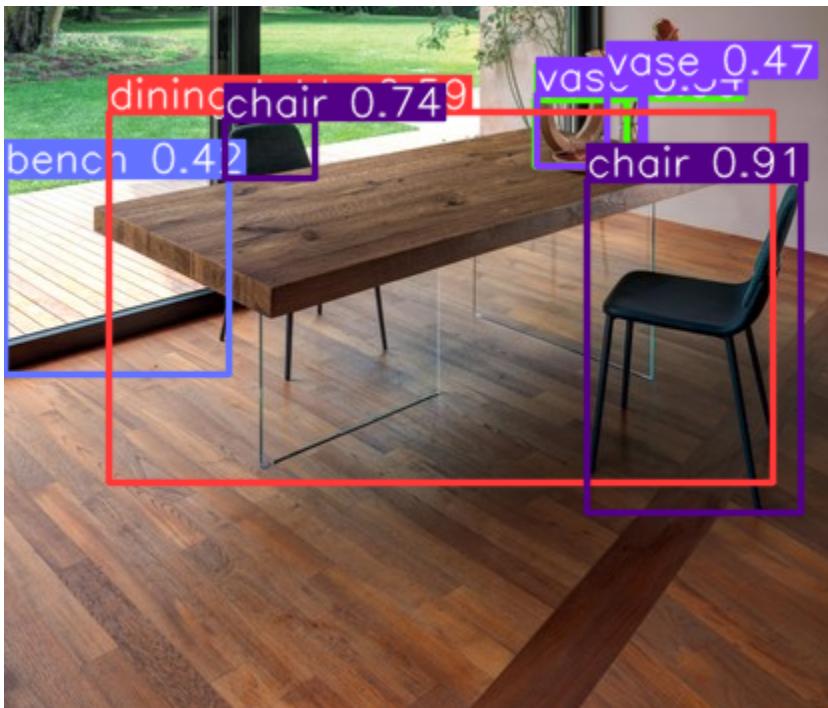
	xmin	ymin	xmax	ymax	confidence	class	name	grid icon	table icon
0	743.290588	48.343597	1141.756470	720.000000	0.879861	0	person		
1	441.989624	437.336670	496.585083	710.036255	0.675118	27	tie		
2	123.051208	193.238068	714.690491	719.771240	0.666693	0	person		
3	978.989807	313.579498	1025.302856	415.526154	0.261517	27	tie		

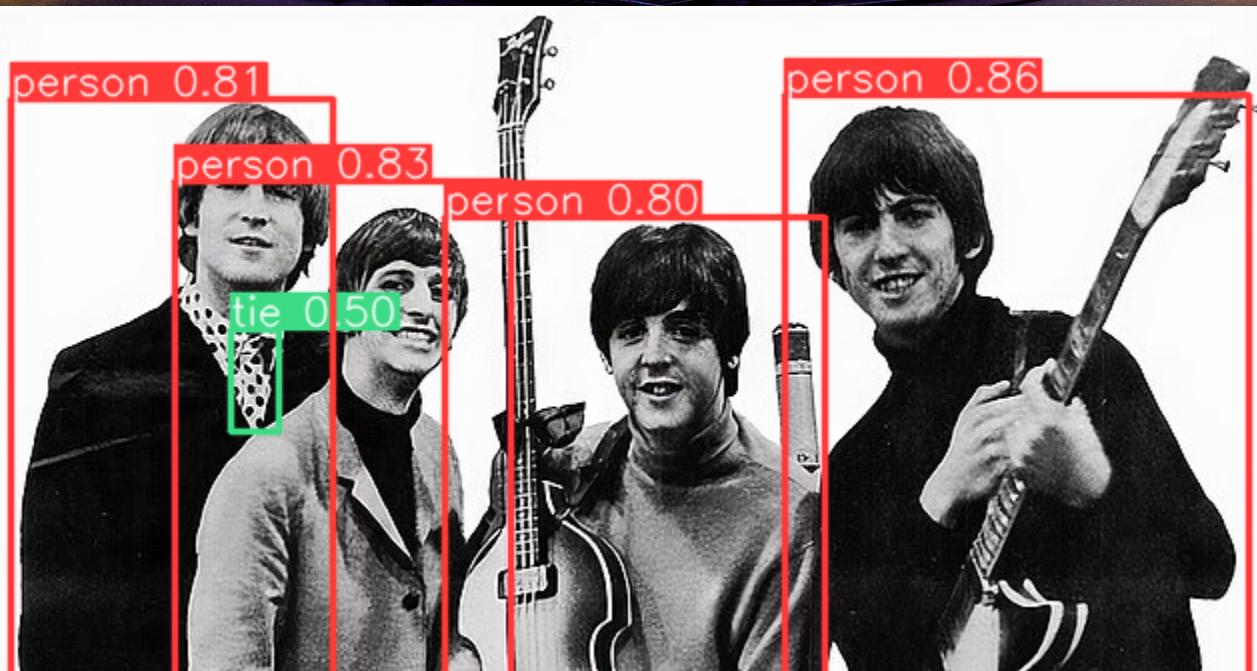
Pruebas

```
imgs = [
    'https://images.dunelm.com/30734817.jpg?$standardplayerdefault$&img404=noimagedefault',
    'https://lago-cdn.thron.com/delivery/public/image/lago/7d32caeb-33fa-437b-ae16-6bc7372',
    'https://cdn.trackdays.co.uk/cdn-cgi/image/format=auto,fit=contain/imgs/driving-experi',
    'https://media.formula1.com/image/upload/content/dam/fom-website/sutton/2022/Italy/Sun
```

```
'https://www.rollingstone.com/wp-content/uploads/2022/12/TNMRollingStone_FrontLine-3.j  
'https://upload.wikimedia.org/wikipedia/commons/thumb/9/9f/Beatles_ad_1965_just_the_be  
'https://i0.wp.com/sixcolors.com/wp-content/uploads/2017/11/ipad-instagram-6c.jpg?ssl=1  
'https://i.ytimg.com/vi/SkB-eRCzWIU/maxresdefault.jpg'  
]  
results = model(imgs)  
results.show()
```



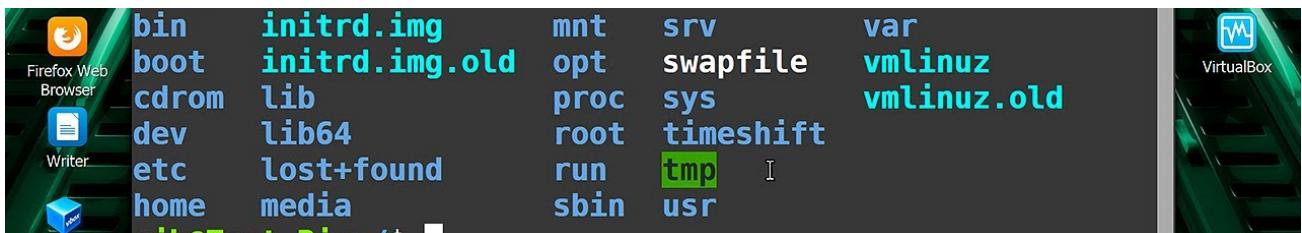






```
cjb@Test-Rig:/home$ lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda      8:0    0 931.5G  0 disk 
└─sda1   8:1    0 465.8G  0 part /
└─sda2   8:2    0 465.8G  0 part /
sr0     11:0    1 1024M  0 rom 

cjb@Test-Rig:/home$ cd /
cjb@Test-Rig:/$ ls
```



YOLO V5 con video

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

```
Cloning into 'yolov5'...  
remote: Enumerating objects: 16003, done.  
remote: Counting objects: 100% (36/36), done.  
remote: Compressing objects: 100% (23/23), done.  
remote: Total 16003 (delta 21), reused 20 (delta 13), pack-reused 15967  
Receiving objects: 100% (16003/16003), 14.60 MiB | 19.29 MiB/s, done.  
Resolving deltas: 100% (10987/10987), done.  
Requirement already satisfied: gitpython>=3.1.30 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: matplotlib>=3.3 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: numpy>=1.22.2 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: opencv-python>=4.1.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: Pillow>=7.1.2 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: psutil in /usr/local/lib/python3.10/dist-packages (from  
Requirement already satisfied: PyYAML>=5.3.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: requests>=2.23.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: scipy>=1.4.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: thop>=0.1.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: torch>=1.8.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: torchvision>=0.9.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: tqdm>=4.64.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: ultralytics>=8.0.147 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: pandas>=1.1.4 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: seaborn>=0.11.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: setuptools>=65.5.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: gitdb<5,>=4.0.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages  
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from  
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from  
Requirement already satisfied: sympy in /usr/local/lib/python3.10/dist-packages (from  
Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from
```

```
Requirement already satisfied: jinja2 in /usr/local/lib/python3.10/dist-packages (from)
Requirement already satisfied: triton==2.0.0 in /usr/local/lib/python3.10/dist-packages
Requirement already satisfied: cmake in /usr/local/lib/python3.10/dist-packages (from)
Requirement already satisfied: lit in /usr/local/lib/python3.10/dist-packages (from)
Requirement already satisfied: py-cpuinfo in /usr/local/lib/python3.10/dist-packages
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages
Requirement already satisfied: smmap<6,>=3.0.1 in /usr/local/lib/python3.10/dist-packages
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages
Requirement already satisfied: mpmath>=0.19 in /usr/local/lib/python3.10/dist-packages
```

```
from google.colab import files
files.upload()
path = "D:\Diego-CB\Pictures\Camera Roll\WIN_20231008_12_13_12_Pro.mp4"
```

Examinar... WIN_20231008_12_13_12_Pro.mp4

WIN_20231008_12_13_12_Pro.mp4(video/mp4) - 39527877 bytes, last modified: n/a - 100% done
Saving WIN_20231008_12_13_12_Pro.mp4 to WIN_20231008_12_13_12_Pro.mp4

```
!python yolov5/detect.py --weights yolov5s.pt --source WIN_20231008_12_13_12_Pro.mp4 --nam
```

```
detect: weights=['yolov5s.pt'], source=WIN_20231008_12_13_12_Pro.mp4, data=yolov5/datasets/coco128.yaml, imgsz=640, conf_thres=0.25, iou_thres=0.45, max_det=100, device='cpu', save_txt=False, save_conf=False, save_crop=False, save_labels=False, save_json=False, save_npy=False, save_hybrid=False, save_xywh=False, save_xyxy=False, save_xywhn=False, save_xyxyn=False, save_silhouette=False, save_mosaic=False, save_coco=False, save_coco_kpt=False, save_kpt=False, save_kpt_r5=False, save_kpt_r7=False, save_kpt_r9=False, save_kpt_r17=False, save_kpt_r33=False, save_kpt_r51=False, save_kpt_r102=False, save_kpt_r204=False, save_kpt_r408=False, save_kpt_r816=False, save_kpt_r1632=False, save_kpt_r3264=False, save_kpt_r6536=False, save_kpt_r13072=False, save_kpt_r26144=False, save_kpt_r52288=False, save_kpt_r104576=False, save_kpt_r209152=False, save_kpt_r418304=False, save_kpt_r836608=False, save_kpt_r1673216=False, save_kpt_r3346432=False, save_kpt_r6692864=False, save_kpt_r13385728=False, 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```

```
video 1/1 (28/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (29/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (30/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (31/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (32/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (33/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (34/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (35/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (36/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.7ms
video 1/1 (37/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.5ms
video 1/1 (38/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 8.9ms
video 1/1 (39/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.4ms
video 1/1 (40/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.0ms
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video 1/1 (43/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.1ms
video 1/1 (44/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.1ms
video 1/1 (45/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 7.3ms
video 1/1 (46/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.1ms
video 1/1 (47/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 11.3ms
video 1/1 (48/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.6ms
video 1/1 (49/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.0ms
video 1/1 (50/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.1ms
video 1/1 (51/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.6ms
video 1/1 (52/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.2ms
video 1/1 (53/2021) /content/WIN_20231008_12_13_12_Pro.mp4: 384x640 1 person, 6.0ms
```

```
from IPython.display import HTML
HTML("""
<video width="640" height="480" controls>
  <source type="video/mp4" src="/content/yolov5/runs/detect/vid_yolo_out/WIN_20231008_12_1
</video>
""")
```

No se ha encontrado ningún vídeo que tenga un formato y tipo MIME compatibles.

```
import cv2
from google.colab.patches import cv2_imshow

video_path = '/content/yolov5/runs/detect/vid_yolo_out/WIN_20231008_12_13_12_Pro.mp4'
cap = cv2.VideoCapture(video_path)

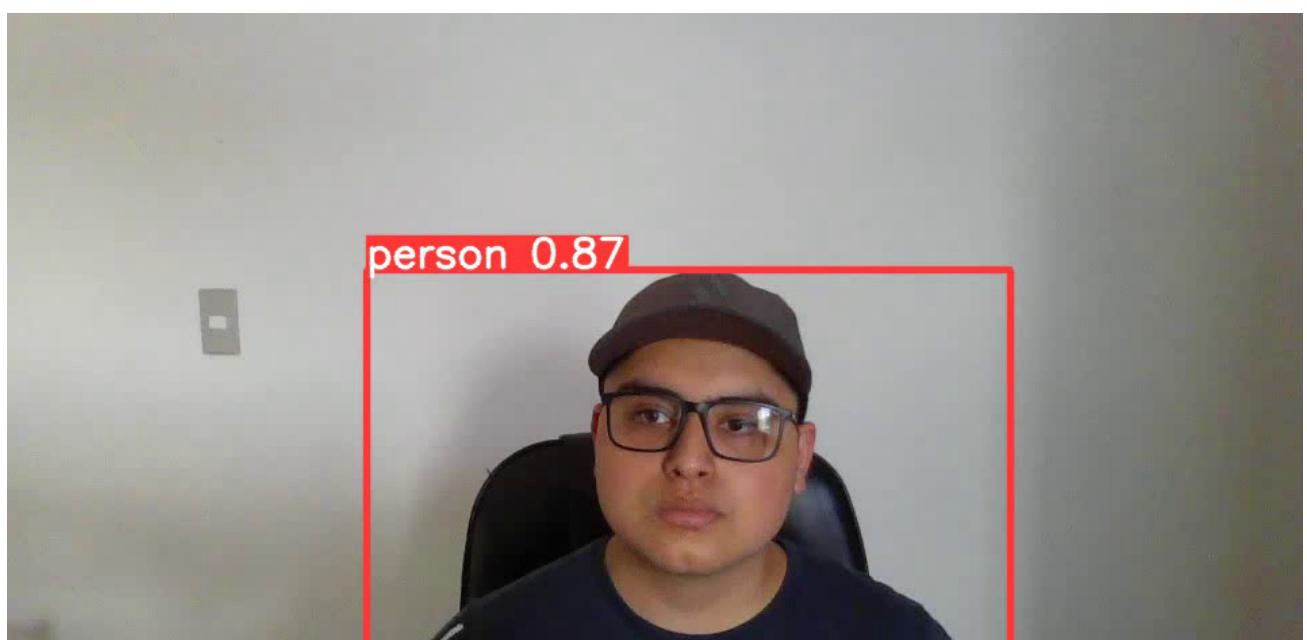
frame_count = 0

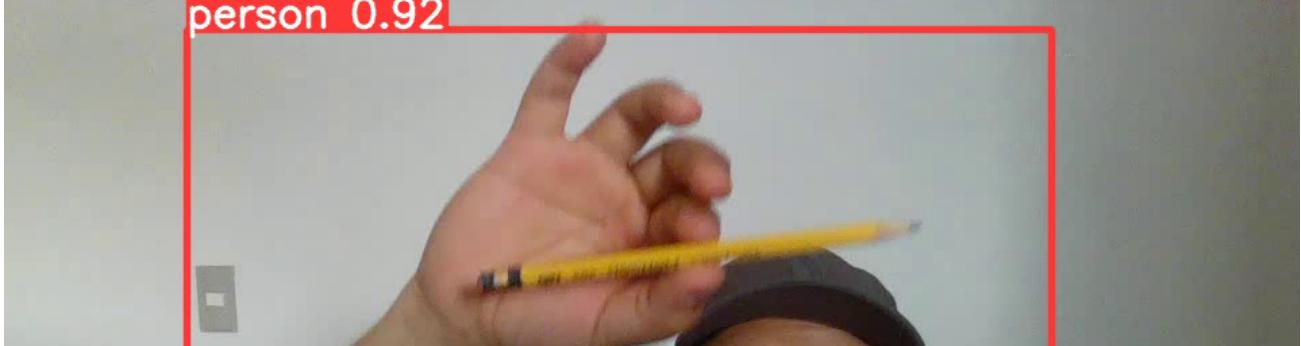
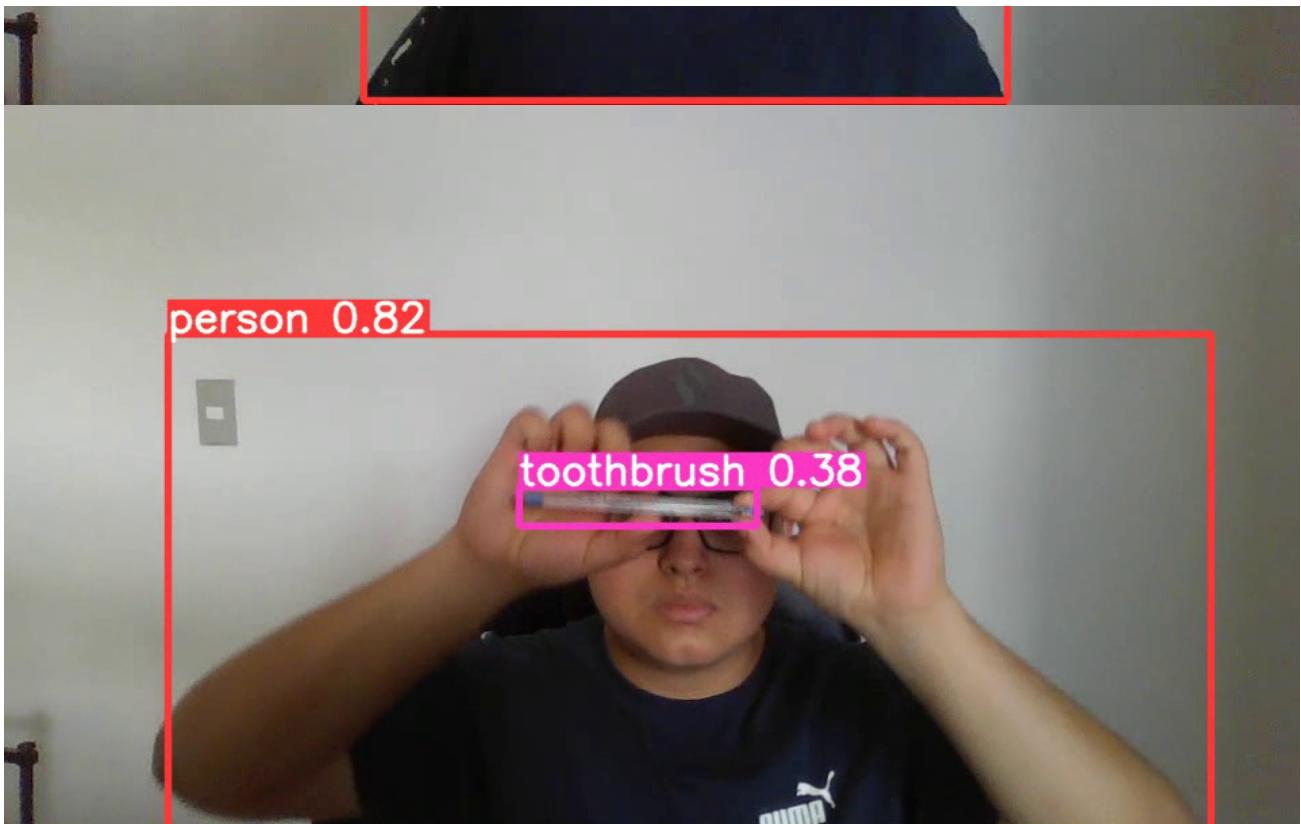
while True:
    ret, frame = cap.read()
    if not ret:
        break

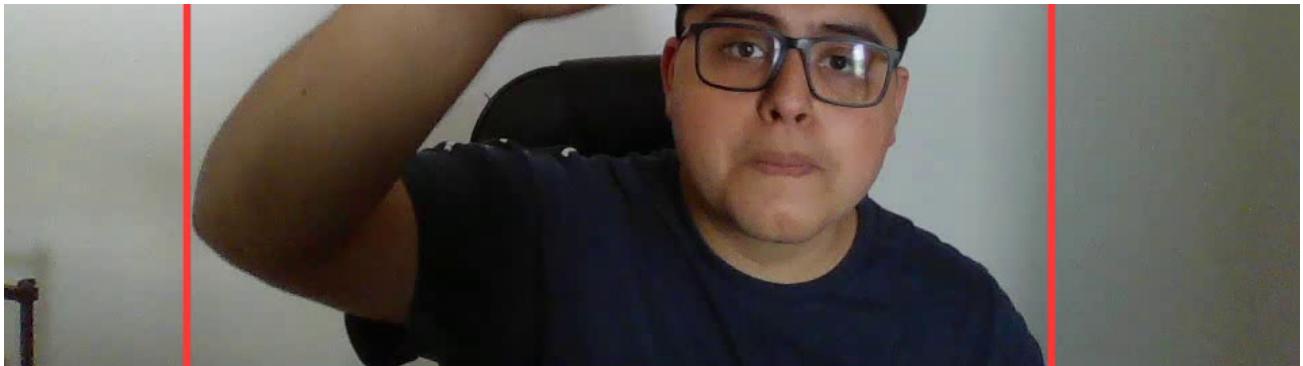
    # Muestra el frame solo si es un múltiplo de 1000
    if frame_count % 80 == 0:
        cv2_imshow(frame)

    frame_count += 1

cap.release()
cv2.destroyAllWindows()
```







person 0.90

toothbrush 0.43



person 0.94



person 0.97

toothbrush 0.50

