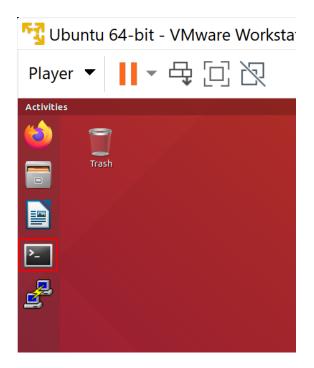


Open terminal



# Download keras-yolo3 and required libraries

```
Kneron@ubuntu:~$ git clone https://github.com/qqwweee/keras-yolo3
 Cloning into 'keras-yolo3'...
 remote: Enumerating objects: 144, done.
 remote: Total 144 (delta 0), reused 0 (delta 0), pack-reused 144
 Receiving objects: 100% (144/144), 151.07 KiB | 3.43 MiB/s, done.
 Resolving deltas: 100% (65/65), done.
 Kneron@ubuntu:~$ cd keras-yolo3
 Kneron@ubuntu:~/keras-yolo3$ pip3 install matplotlib
Collecting matplotlib
71kB 3.5MB/s
Collecting cycler>=0.10 (from matplotlib)

Downloading https://files.pythonhosted.org/packages/f7/d2/e07d3ebb2bd7af696440ce7e754c59dd546ffe1bbe732c8ab68b9c834e61/c
 ycler-0.10.0-py2.py3-none-any.whl
 Collecting pillow>=6.2.0 (from matplotlib)
    Downloading\ https://files.pythonhosted.org/packages/5f/19/d4c25111d36163698396f93c363114cf1cddbacb24744f6612f25b6aa3d0/Packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/packages/files.pythonhosted.org/pack
iwisolver-<u>1.3.1-cp36-cp36m-manylinux1_x86_</u>64.whl (1.1MB)
                                                                              | 1.1MB 1.3MB/s
Collecting python-dateutil>=2.1 (from matplotlib)

Downloading https://files.pythonhosted.org/packages/d4/70/d60450c3dd48ef87586924207ae8907090de0b306af2bce5d134d78615cb/p
Installing collected packages: pyparsing, numpy, six, cycler, pillow, kiwisolver, python-dateutil, matplotlib
Successfully installed cycler-0.10.0 kiwisolver-1.3.1 matplotlib-3.3.3 numpy-1.19.4 pillow-8.0.1 pyparsing-2.4.7 python-da
teutil-2.8.1 six-1.15.0
```

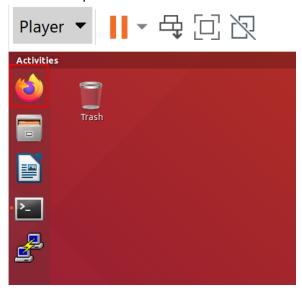
# 

#### Install yolov3.weights

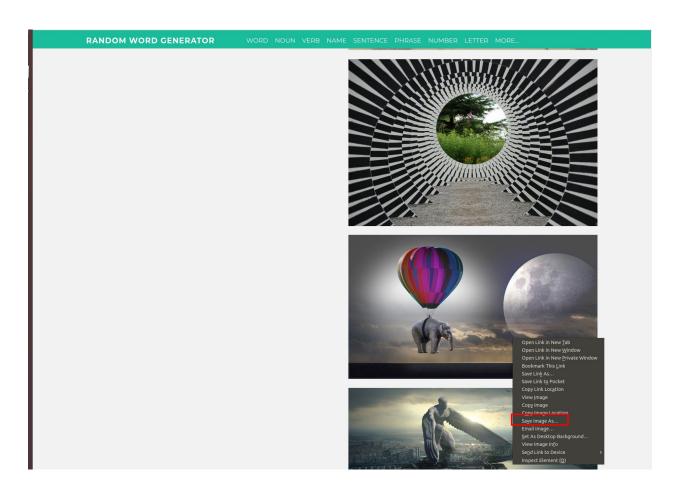
### Convert weights to keras

Kneron@ubuntu:~/keras-yolo3\$ python3 convert.py yolov3.cfg yolov3.weights model\_data/yolo.h5

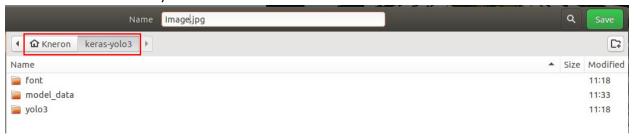
# Download a picture to test



I went to random picture generator and chose a picture with the most objects



Save as a name that is easy to remember



# Go back to terminal

Kneron@ubuntu:~/keras-yolo3\$ python3 yolo\_video.py --image

When prompted enter the image name and extension

Input image filename:Image.jpg



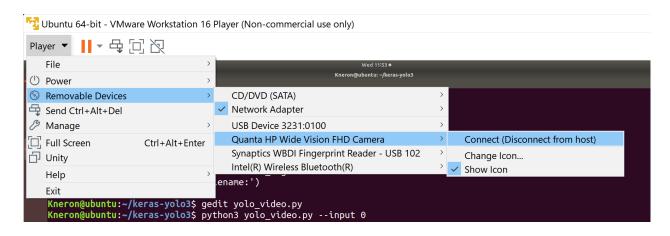
# Ctrl+C when done

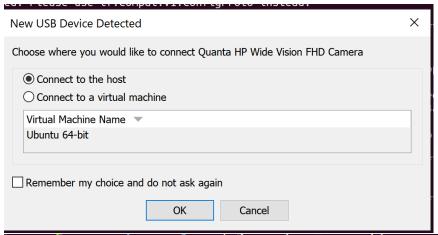
To webcam to detect objects

Change yolo\_video.py code then save and exit

```
Kneron@ubuntu:~/keras-yolo3$ gedit yolo_video.py

'''
Command line positional arguments -- for video detection mode
'''
parser.add_argument(
    "--input", nargs='?', type=int|, required=False, default='./path2your_video',
    help = "Video input path"
)
```





Kneron@ubuntu:~/keras-yolo3\$ python3 yolo\_video.py --input 0

