

## Installing python ubuntu

First, install some dependencies:

In a terminal run

```
sudo apt-get install build-essential checkinstall sudo apt-get install  
libreadline-gplv2-dev libncursesw5-dev libssl-dev libsqlite3-dev tk-dev  
libgdbm-dev libncurses5-dev libbz2-dev
```

Then download using the following command:

```
cd ~/Downloads/ wget http://python.org/ftp/python/2.7.5/Python-2.7.5.tgz
```

Extract and go to the directory:

```
tar -xvf Python-2.7.5.tgz cd Python-2.7.5
```

Now, install using the command you just tried:

```
./configure make sudo checkinstall
```

## Install OpenCV on Ubuntu

Install OpenCV on Ubuntu or Debian is a bit long but very easy. You can install OpenCV from the Ubuntu or Debian repository or from the official site.

You can install OpenCV from the Ubuntu or Debian repository:

Run

```
sudo apt-get install libopencv-dev python-opencv
```

## **Set up ffmpeg**

Add ppa to the system.

```
sudo add-apt-repository ppa:mc3man/trusty-media
```

Update the repository.

```
sudo apt-get update\
```

Then install ffmpeg and gstreamer plugin

```
sudo apt-get install ffmpeg gstreamer0.10-ffmpeg
```

## ***Running the program***

Set up virtual video device

In the terminal run

```
Sudo modprobe v4l2loopback
```

Then

```
./ffmpeg -f x11grab -r 15 -s -s 500x500 -i 0.0+0,0 -vcodec rawvideo  
-pix_fmt yuv420p -threads 0 -f v4l2 /dev/video1
```

Position video stream or recording in top left corner of screen

In a separate terminal run

```
python ./blobdetect.py
```

