

# HOW TO: Installing Find-Object

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This HOW-TO was performed on an Ubuntu 14.04 64 bits machine.

## 1 – Installing the dependencies

### OpenCV Library

To install all dependencies for Find-Object, open the terminal and follow the instructions below.

First thing is to make sure that your system is updated and upgraded.

```
$ sudo apt-get update  
$ sudo apt-get upgrade
```

Now, you need to install many dependencies.

```
$ sudo apt-get install build-essential libgtk2.0-dev libjpeg-dev libtiff4-dev libjasper-dev libopenexr-  
dev cmake python-dev python-numpy python-tk libtbb-dev libeigen3-dev yasm libfaac-dev  
libopencore-amrnb-dev libopencore-amrwb-dev libtheora-dev libvorbis-dev libxvidcore-dev  
libx264-dev libqt4-dev libqt4-opengl-dev sphinx-common texlive-latex-extra libv4l-dev libdc1394-  
22-dev libavcodec-dev libavformat-dev libswscale-dev default-jdk ant libvtk5-qt4-dev
```

Now, it is time to get OpenCV Source Code.

```
$ cd ~
```

```
$ wget http://sourceforge.net/projects/opencvlibrary/files/opencv-unix/2.4.9/opencv-2.4.9.zip  
$ unzip opencv-2.4.9.zip  
$ cd opencv-2.4.9
```

```
$ mkdir build
```

```
$ cd build
```

```
$ cmake -D WITH_TBB=ON -D BUILD_NEW_PYTHON_SUPPORT=ON -D WITH_V4L=ON -D  
INSTALL_C_EXAMPLES=ON -D INSTALL_PYTHON_EXAMPLES=ON -D  
BUILD_EXAMPLES=ON -D WITH_QT=ON -D WITH_OPENGL=ON -D WITH_VTK=ON ..
```

Now, we are ready to compile and install OpenCV 2.4.9.

```
$ make
```

```
$ sudo make install
```

Open the file below and add the next line to the end of this file.

```
$ sudo gedit /etc/ld.so.conf.d/opencv.conf
```

```
/usr/local/lib
```

The line below configure the library.

```
$ sudo ldconfig
```

You have to edit another file. Open the file below and add the next two lines to the end of it.

```
$ sudo gedit /etc/bash.bashrc
```

```
PKG_CONFIG_PATH=$PKG_CONFIG_PATH:/usr/local/lib/pkgconfig
```

```
export PKG_CONFIG_PATH
```

Close your terminal and open it again, logout or restart the computer and you are set.

## 2 – Downloading, compiling and installing Find-object

```
$ wget http://find-object.googlecode.com/files/Find-Object-0.4.0-Source.zip
```

```
$ unzip Find-Object-0.4.0-Source.zip
```

```
$ cd Find-Object-0.4.0-Source/build
```

```
$ cmake ..
```

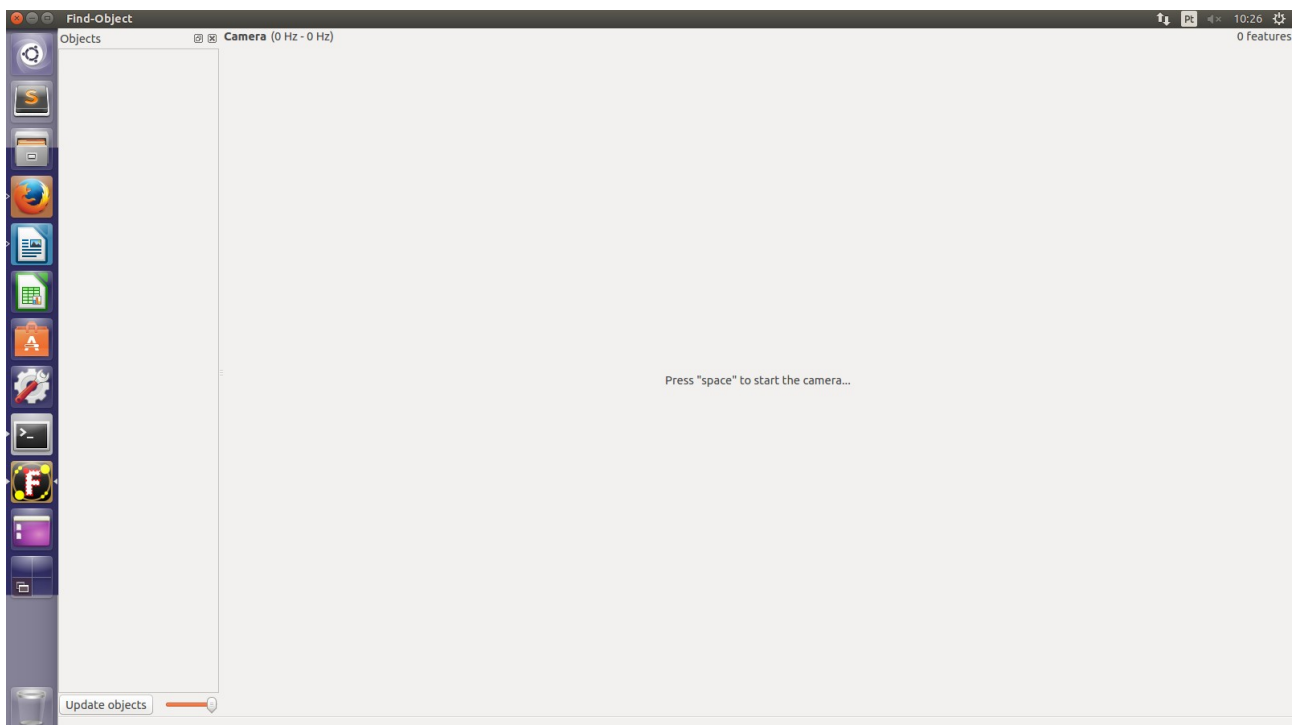
```
$ make
```

```
$ sudo make install
```

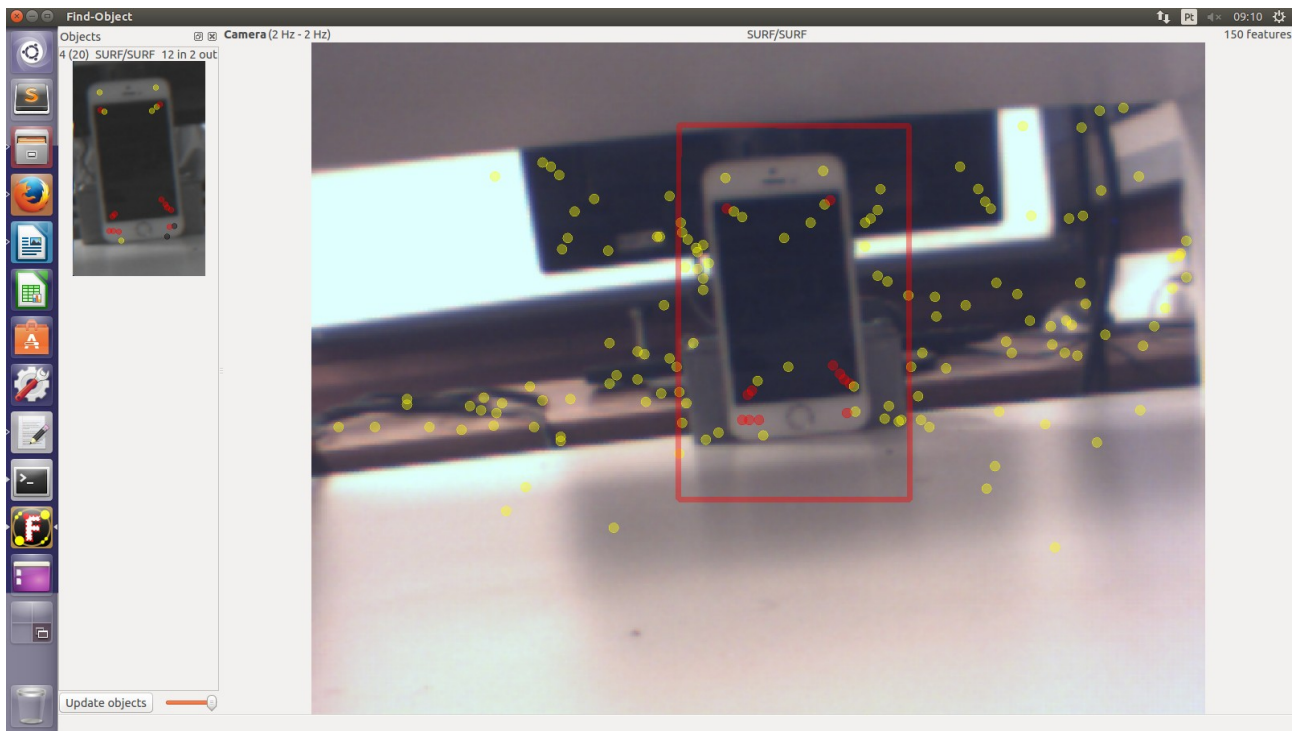
## 3 – Running and using Find-Object

To run Find-Object, open the terminal, type `find_object` and then press [ENTER].

```
$ find_object
```



**Figure 1.** *Find-Object* running.



**Figure 2.** *Find-Object* is recognizing a cellphone.