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Sebastian Montabone

My past and current projects

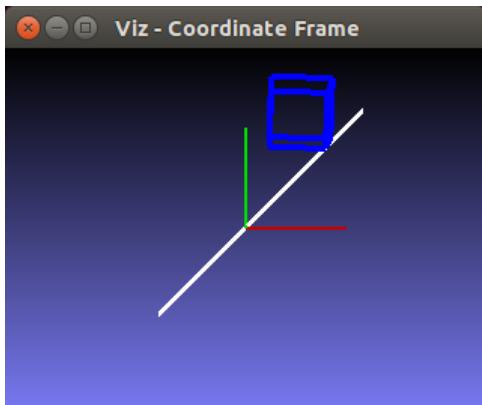
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Installing OpenCV 2.4.9 in Ubuntu 14.04 LTS

The latest Long Term Support version of Ubuntu(14.04 LTS) is out and a new version of OpenCV was recently released as well. This means that now is a great opportunity to update my OpenCV installation guide to the latest versions, Ubuntu 14.04 LTS and OpenCV 2.4.9.



One of the great additions in this new release of OpenCV is the **new viz module**, which offers a nice 3D visualizer. This module is based on the great Visualization Toolkit library ([VTK](#)) and nicely prepares the users for the upcoming OpenCV 3.

In this guide, I will show you how to install OpenCV with a lot of the features it provides. Here are some of the things that are going to be enabled when you are finished following through with this installation tutorial:

- viz module (3D visualization)
- Qt version of the HighGUI module (Better 2D window interface with zoom, image saving capabilities, etc)
- OpenGL support
- C++ interface and examples
- C interface and examples
- Python interface and examples
- Java interface and examples
- Intel Threading Building Blocks (TBB)

Note: I have noticed some copies of my posts elsewhere, so make sure that you are reading this from the original source, at **samontab dot com**, accessible from [here](#) so that you don't miss the comments.

OK, so the first step is to make sure that everything in the system is updated and upgraded. Open the terminal and write this:

```
1 | sudo apt-get update
2 | sudo apt-get upgrade
```

Now, you need to install many dependencies, such as support for reading and writing image files, drawing on the screen, some needed tools, other libraries, etc... This step is very easy, you only need to write the following command in the Terminal:

```
1 | 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
```

Time to get the OpenCV 2.4.9 source code:

```
1 | cd ~
2 | wget http://sourceforge.net/projects/opencvlibrary/files/opencv-unix/2.4.9/opencv-2.4.9.zip
3 | unzip opencv-2.4.9.zip
4 | cd opencv-2.4.9
```

Now we have to generate the Makefile by using cmake. In here we can define which parts of OpenCV we want to compile. Since we want to use the viz module, Python, Java, TBB, OpenGL, Qt, work with videos, etc, here is where we need to set that. Just execute the following line at the terminal to create the appropriate Makefile. Note that there are two dots at the end of the line, it is an argument for the cmake program and it means the parent directory (because we are inside the build directory, and we want to refer to the OpenCV directory, which is its parent).

```

1 | mkdir build
2 | cd build
3 | 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 ..

```

```

samontab@ubuntu-14:~/opencv-2.4.9/build
-- Java:
--   ant:           /usr/bin/ant (ver 1.9.3)
--   JNI:           /usr/lib/jvm/java-7-openjdk-amd64/include /u...
-- Java tests:    YES
-- Documentation:
--   Build Documentation: YES
--   Sphinx:           /usr/bin/sphinx-build (ver 1.2.2)
--   PdfLaTeX compiler: /usr/bin/pdflatex
-- Tests and samples:
--   Test:           YES
--   Performance tests: YES
--   C/C++ Examples: YES
-- Install path:    /usr/local
-- cvconfig.h is in: /home/samontab/opencv-2.4.9/build
...
-- Configuring done
-- Generating done
-- Build files have been written to: /home/samontab/opencv-2.4.9/build
samontab@ubuntu-14:~/opencv-2.4.9/build$ 

```

Check that the above command produces no error and that in particular it reports FFmpeg as YES. If this is not the case you will not be able to read or write videos. Check that Java, Python, TBB, OpenGL, V4L and Qt are all detected correctly.

```

samontab@ubuntu-14:~/opencv-2.4.9/build
-- OpenCV modules:
--   To be built:      core flann imgproc highgui features2d calib3d
--   Disabled:        world
--   Disabled by dependency: -
--   Unavailable:     androidcamera dynamiccuda
...
-- GUI:
--   QT 4.x:          YES (ver 4.8.6 EDITION = OpenSource)
--   QT openGL support: YES (/usr/lib/x86_64-linux-gnu/libQtOpenGL.so)
--   OpenGL support:  YES (/usr/lib/x86_64-linux-gnu/libGLU.so /u...
--   VTK support:     YES (ver 5.8.0)
...
-- Media I/O:
--   ZLib:            /usr/lib/x86_64-linux-gnu/libz.so (ver 1.2.8)
--   JPEG:            /usr/lib/x86_64-linux-gnu/libjpeg.so (ver .)
--   PNG:             /usr/lib/x86_64-linux-gnu/libpng.so (ver 1.2)
--   TIFF:            /usr/lib/x86_64-linux-gnu/libtiff.so (ver 42)
--   JPEG 2000:       /usr/lib/x86_64-linux-gnu/libjasper.so (ver ...
--   OpenEXR:          /usr/lib/x86_64-linux-gnu/libImath.so /usr/...
--   gnu/libmalt.so /usr/lib/x86_64-linux-gnu/libImathThread.so (ver 1.6.1)
...
-- Video I/O:

```

Make sure you scroll up and check that the modules that are going to be built are these:
core flann imgproc highgui features2d calib3d ml video legacy objdetect photo gpu ocl nonfree contrib java python stitching superres ts videostab viz.

If anything is wrong, go back, correct the errors by maybe installing extra packages and then run cmake again.

Now, you are ready to compile and install OpenCV 2.4.9:

```

1 | make
2 | sudo make install

```

Now you have to configure OpenCV. First, open the opencv.conf file with the following code:

```

1 | sudo gedit /etc/ld.so.conf.d/opencv.conf

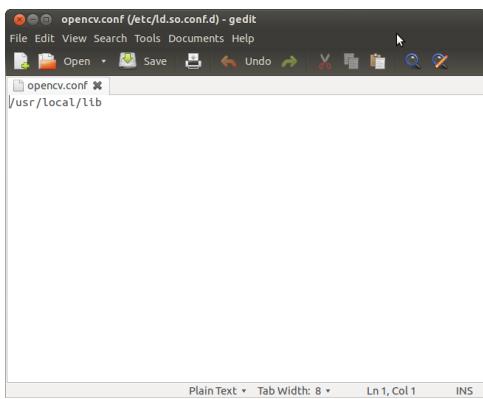
```

Add the following line at the end of the file(it may be an empty file, that is ok) and then save it:

```

1 | /usr/local/lib

```



Run the following code to configure the library:

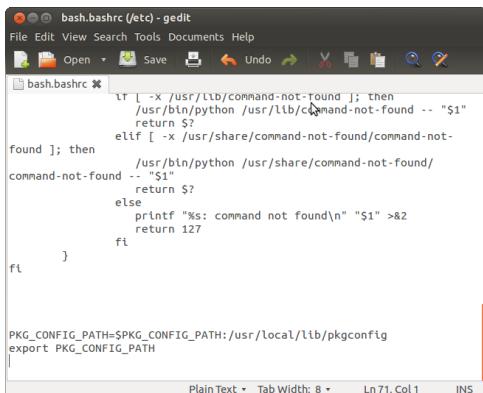
```
1 | sudo ldconfig
```

Now you have to open another file:

```
1 | sudo gedit /etc/bash.bashrc
```

Add these two lines at the end of the file and save it:

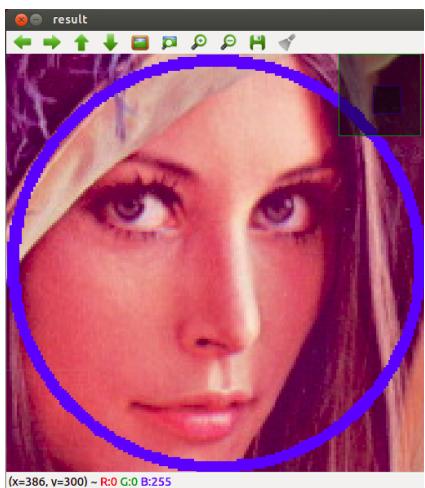
```
1 | PKG_CONFIG_PATH=$PKG_CONFIG_PATH:/usr/local/lib/pkgconfig
2 | export PKG_CONFIG_PATH
```



Finally, **close the console and open a new one, restart the computer or logout and then login again.** OpenCV will not work correctly until you do this.

Now you have OpenCV 2.4.9 installed in your computer with 3D visualization, Python, Java, TBB, OpenGL, video, and Qt support.

Check out the cool Qt interface which provides image viewing capabilities with zoom, as well as the ability to save the current image with just one click.



If you zoom in enough, you can see the RGB (or intensity) values for each pixel.

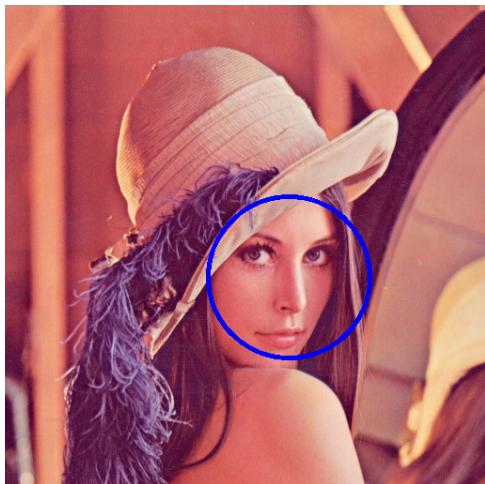
result															
101	9	100	105	110	115	117	119	120	121	122	123	124	125	126	127
18	5	11	18	48	33	42	48	49	50	51	52	53	54	55	56
62	55	57	61	89	71	78	101	135	136	137	138	139	140	141	142
97	85	76	77	131	142	120	157	160	161	162	163	164	165	166	167
16	13	8	14	83	81	35	38	39	40	41	42	43	44	45	46
59	61	59	59	100	95	66	89	123	123	123	123	123	123	123	123
77	7	7	8	102	107	108	109	110	111	112	113	114	115	116	117
21	13	6	16	34	33	41	24	48	148	149	150	151	152	153	154
60	56	51	57	71	86	74	57	76	163	163	163	163	163	163	163
12	97	94	97	110	156	130	99	131	132	133	134	135	136	137	138
46	15	14	16	43	47	51	27	45	142	142	142	142	142	142	142
82	53	53	48	73	116	91	65	81	164	164	164	164	164	164	164
140	127	126	115	139	162	139	98	127	202	202	202	202	202	202	202
60	43	42	41	49	99	44	27	43	160	160	160	160	160	160	160
95	76	75	68	95	121	83	71	106	184	184	184	184	184	184	184
152	136	135	138	133	124	110	105	159	218	218	218	218	218	218	218
68	64	55	62	34	42	32	38	101	185	185	185	185	185	185	185
102	85	82	90	85	80	74	82	143	204	204	204	204	204	204	204
135	141	144	107	107	107	116	145	200	226	226	226	226	226	226	226
49	60	63	60	47	26	40	98	160	198	198	198	198	198	198	198
86	92	95	92	86	69	86	128	187	210	210	210	210	210	210	210
111	108	115	100	112	122	137	186	220	229	229	229	229	229	229	229
26	24	30	24	39	53	76	145	189	199	199	199	199	199	199	199
65	60	69	63	82	98	120	175	207	207	207	207	207	207	207	207
139	122	123	121	128	162	186	208	220	222	222	222	222	222	222	222
54	34	34	44	89	107	144	179	194	190	190	190	190	190	190	190
93	76	76	70	70	102	149	180	201	207	195	195	195	195	195	195
166	130	148	153	169	192	170	219	224	224	224	224	224	224	224	224
79	79	79	79	117	140	170	189	187	187	187	187	187	187	187	187
123	130	129	142	158	171	182	195	192	194	194	194	194	194	194	194
187	182	184	186	196	214	226	231	230	234	234	234	234	234	234	234

Now let's build some samples included in OpenCV:

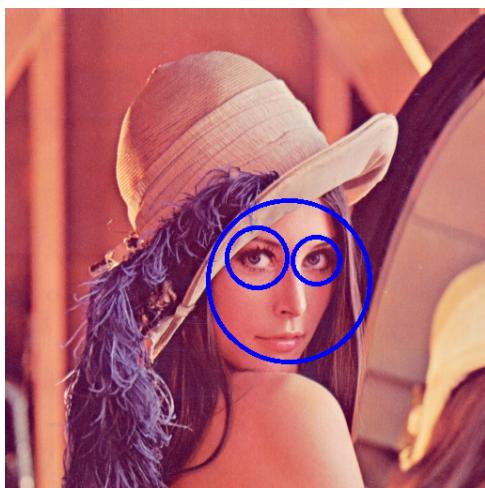
```
1 | cd ~/opencv-2.4.9/samples/c
2 | chmod +x build_all.sh
3 | ./build_all.sh
```

These examples use the **old C interface**:

```
1 | ./facedetect --cascade="/usr/local/share/OpenCV/haarcascades
/haarcascade_frontalface_alt.xml" --scale=1.5 lena.jpg
```



```
1 | ./facedetect --cascade="/usr/local/share/OpenCV/haarcascades  
/haarcascade_frontalface_alt.xml" --nested-cascade="/usr/local/share  
/OpenCV/haarcascades/haarcascade_eye.xml" --scale=1.5 lena.jpg
```

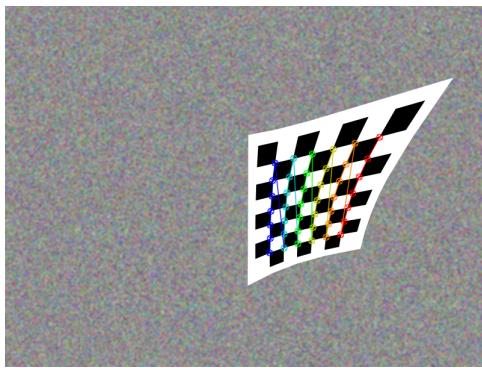


The following examples use the new **C++ interface**:

```
1 | ~/opencv-2.4.9/build/bin/cpp-example-grabcut ~/opencv-2.4.9/samples  
/cpp/lena.jpg
```



```
1 | ~/opencv-2.4.9/build/bin/cpp-example-calibration_artificial
```



Now let's run some **Python** code:

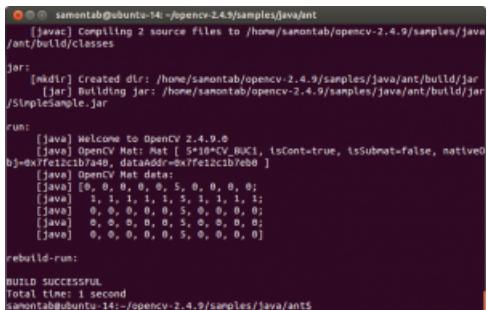
```
1 | python ~/opencv-2.4.9/samples/python2/turing.py
```



Now you can build a **Java** sample using ant for example. (Make sure that you change **/home/samontab/** with your actual home directory):

```
1 | cd ~/opencv-2.4.9/samples/java/ant
```

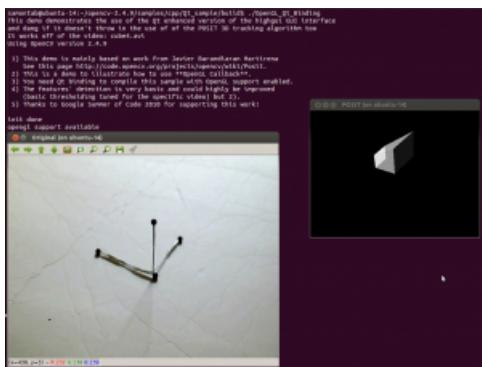
```
2 | ant -DocvJarDir=/home/samontabopencv-2.4.9/build/bin  
-DocvLibDir=/home/samontabopencv-2.4.9/build/lib
```



```
 samontab@ubuntu-14:~/opencv-2.4.9/samples/java$ ant  
 [javac] Compiling 2 source files to /home/samontab/opencv-2.4.9/samples/java  
/ant/build/classes  
jar:  
 [mkdir] Created dir: /home/samontab/opencv-2.4.9/samples/java/ant/build/jar  
[jar] Building jar: /home/samontab/opencv-2.4.9/samples/java/ant/build/jar/  
/SimpleSample.jar  
  
run:  
 [java] Welcome to OpenCV 2.4.9.0  
 [java] OpenCV Mat: Mat [ 5x10=CV_8UC1, isCont=true, isSubmat=false, nativeO  
bj=>0x121cc1bad0, data=>0x7f7fe121cc1d7e0 ]  
 [java] OpenCV Mat data:  
 [java] [0, 0, 0, 0, 0, 5, 0, 0, 0, 0;  
 [java] 1, 1, 1, 1, 1, 5, 1, 1, 1, 1;  
 [java] 0, 0, 0, 0, 0, 5, 0, 0, 0, 0;  
 [java] 0, 0, 0, 0, 0, 5, 0, 0, 0, 0;  
 [java] 0, 0, 0, 0, 0, 5, 0, 0, 0, 0]  
  
rebuild-run:  
  
BUILD SUCCESSFUL  
Total time: 1 second  
samontab@ubuntu-14:~/opencv-2.4.9/samples/java/ants
```

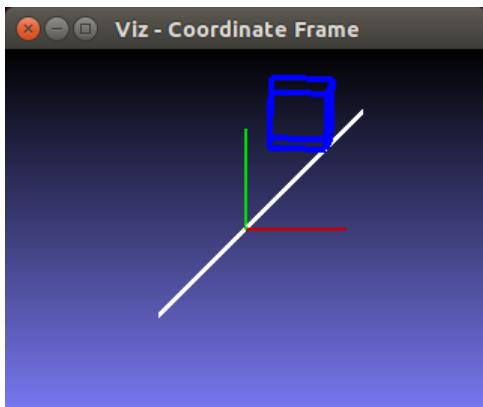
Now let's read a **video** and use **OpenGL** with **Qt** through this great sample that detects the features from the video, then estimates the 3D location of the structure using **POSIT**, and finally uses OpenGL to draw in 3D (great sample Javier):

```
1 | cd ~/opencv-2.4.9/samples/cpp/Qt_sample  
2 | mkdir build  
3 | cd build  
4 | cmake ..  
5 | make  
6 | ./OpenGL_Qt_Binding
```



And finally, let's build a sample using the 3D visualization module **viz**:

```
1 | cd ~/opencv-2.4.9/samples/cpp/tutorial_code/viz  
2 | g++ -o widget_pose `pkg-config opencv --cflags` widget_pose.cpp  
`pkg-config opencv --libs`  
3 | ./widget_pose
```



As you can see, now you can use OpenCV with C++, C, Python, and Java. The Qt enhanced 2D interface is enabled, 3D data can be displayed using OpenGL directly, or using the new viz module. Multi threading functionality is enabled using TBB. Also, video support is enabled as well.

If you correctly finished this tutorial, you are now ready to do some nice computer vision work.

Posted in [Image Processing](#), [Open Source](#), [Programming](#), [Qt](#).

[266 comments](#)

By [samontab](#) - June 24, 2014

266 Responses

Stay in touch with the conversation, subscribe to the [RSS feed for comments on this post](#).

1.  *Jo says*

Thank you for your guide. I had really problems to get OpenCV work before and tried a bunch of other guides, but only yours worked in the end ;)

[June 26, 2014, 2:35 am](#)

2.  *samontab says*

You are welcome Jo. Great to hear that it worked for you.

[June 26, 2014, 2:43 am](#)

3.  *Pablo says*

Thanks for share.

I was installing the OpenCV 2.4.9 in a cubieboard, with cubian (a debian fork) and

with the help of your guide, it solve an issue.

Thanks a great job

June 29, 2014, 3:32 pm



4. *samontab* says

Good job Pablo,

Thanks for letting me know that this guide can also be applied to a cubieboard.

June 29, 2014, 6:15 pm



5. *Arbaaz Khan* says

I had mailed you a few days ago and while I managed the visualisation in matlab, this way of doing it with an integrated vtk is better. Thanks a ton for your help. :)

July 1, 2014, 12:21 am



6. *samontab* says

Thanks Arbaaz Khan,

I am glad it helped you.

And, of course it is better, it is open source :)

July 1, 2014, 12:40 am



7. *Arbaaz Khan* says

I'm having trouble with the reading a video through OpenGL and Qt. When I write the command ./OpenGL_Qt_Binding it says no such file exists. Also during build it shows support for qt and opengl and ffmpeg. What could the problem be ?

July 2, 2014, 12:15 am



8. *samontab* says

Hi Arbaaz Khan,

You are not providing enough information to generate a helpful answer.

Most probably you missed a step, or you are using a different version of Ubuntu. From what you are saying, it may be that the executable is not being created for some reason. Do the other examples work?.

Did you actually log out and log in again?

Just follow every single step, line by line carefully in a fresh install of Ubuntu 14.04 LTS and it should just work.

July 2, 2014, 2:53 am



9. *Toño says*

Your tutorial is great. But I have a error. This appear in the terminal.

```
Linking CXX executable ../../bin/opencv_traincascade
CMakeFiles/opencv_traincascade.dir/traincascade.cpp.o: no se reconoce el fichero:
Fichero truncado
collect2: error: ld returned 1 exit status
make[2]: *** [bin/opencv_traincascade] Error 1
make[1]: *** [apps/traincascade/CMakeFiles/opencv_traincascade.dir/all] Error 2
make: *** [all] Error 2
```

July 5, 2014, 8:08 pm



10. *samontab says*

Hello Toño,

It seems that you have an incomplete download, or the file is somehow truncated. Try doing everything from scratch, and make sure that your download is complete.

July 27, 2014, 11:02 pm



11. *jeremy rutman says*

1000 blessings upon you for posting this.

I get mostly thru , then hit

"...By not providing "FindQt5Core.cmake" in CMAKE_MODULE_PATH this project has

asked CMake to find a package configuration file provided by 'Qt5Core', but CMake did not find one..."

upon trying the cmake. I did

sudo apt-get install libboost-all-dev

rm CMakeCache.txt

and then the cmake again, same problem :{

no clear answer on web search of that problem..

July 15, 2014, 5:25 pm



12. *samontab says*

Hello Jeremy,

That is actually not an error, just a warning. It says that it can't find Qt5, which is correct as it is not installed.

That is fine as we are going to be using Qt4, which should be correctly installed and detected.

Just ignore that message and continue, it should work as expected.

July 15, 2014, 6:15 pm



13. *Seyedmajid says*

Hi

Thank you for your great tutorial for installing Opencv. I just encountered with problem in step cmake. I did it again but before this step several kinds of python were installed.

I just have a problem now regarding samples. I ran all samples except one. everything has been done according to your tutorial but when running sample for OpenGL. I receive this problem : bash: ./OpenGL_Qt_Binding: No such file or directory

```
:~/opencv-2.4.9/samples/cpp/Qt_sample/build$ ls  
CMakeCache.txt CMakeFiles cmake_install.cmake cube4.avi Makefile
```

August 3, 2014, 2:11 pm



14. *samontab says*

Hi Seyedmajid,

It seems that you missed the make step.

August 3, 2014, 7:52 pm



15. *Seyedmajid says*

Hi

I wanted to test the core of Opencv by ./opencv_core_test at the end of the test just at the end it got a failed test reporting:[FAILED] 1 test, listed below:

[FAILED] Core_globbing.accuracy . what is a problem? by the way I still have got my previous question posed in the other discussion forum in terms of one of samples using opengl. i executed all of samples after installing except this one. the output terminal says there is not opengl Qt directory in the made build.

Best

August 3, 2014, 5:30 pm



16. *samontab says*

Hi Seyedmajid,

There is nothing wrong with the code.

The error in the test appears because testing is not completely setup.
In particular, that test checks for particular files in OPENCV_TEST_DATA_PATH, but
that path is not set. Nothing to worry about.
If you want to learn more about that, take a look here:
<http://code.opencv.org/projects/opencv/wiki/CodingStyleGuide#Implementing-tests>

August 3, 2014, 8:19 pm



17. *Umar Chughtai says*

Hi

Great tutorial. Unfortunately I also am having trouble when it comes to reading a video with OpenGL and Qt. This is the error I get.

bash: ./OpenGL_Qt_Binding: No such file or directory

Is removing and re-installing the only option? I mean everything else works.

August 9, 2014, 5:05 am



18. *samontab says*

Hi Umar,

It means that the file is not there. Maybe you had a compilation issue or maybe you forgot a step or two.

August 9, 2014, 5:24 am



19. *Umar Chughtai says*

Thanks for a speedy reply!

But here is what's funny here. The file actually does exist. By the name of OpenGL_Qt_Binding.dir , it exists in the CMakeFiles folder. What I don't get is why it isn't being recognized

August 9, 2014, 6:45 am



20. *samontab says*

Hi Umar,

You need to make the executable first. I was missing one line in the tutorial, I just updated it.

August 10, 2014, 7:16 pm

21. *RobM* says

A few people have commented on the video / OpenGL / Qt example. I also had problems, the example code seems to be missing a "make" command which builds the example and creates the file OpenGL_Qt_Binding, which can then be executed.

I think the sample code for that section should look like this:

```
cd ~/opencv-2.4.9/samples/cpp/Qt_sample  
mkdir build  
cd build  
cmake ..  
make  
./OpenGL_Qt_Binding
```

Cheers. Really great guide. I had been unable to get OpenCV running on 14.04 until this guide.

August 10, 2014, 6:29 pm

22. *samontab* says

Thanks for spotting it RobM. I just updated the tutorial.

August 10, 2014, 7:16 pm

23. *Rushil* says

Hello sam, thanks for posting this great tutorial!

So while following steps everything went great until i tried building the samples using:

```
1 cd ~/opencv-2.4.9/samples/c  
2 chmod +x build_all.sh  
3 ./build_all.sh
```

After which I start getting bombarded with errors similar to:
compilation terminated.

compiling smiledetect.cpp

Package opencv was not found in the pkg-config search path.
Perhaps you should add the directory containing `opencv.pc'
to the PKG_CONFIG_PATH environment variable

No package 'opencv' found

Package opencv was not found in the pkg-config search path.
Perhaps you should add the directory containing `opencv.pc'
to the PKG_CONFIG_PATH environment variable

No package 'opencv' found

smiledetect.cpp:1:43: fatal error: opencv2/objdetect/objdetect.hpp: No such file or

```
directory  
#include "opencv2/objdetect/objdetect.hpp"
```

Where did I go wrong?

August 12, 2014, 4:40 pm



24. *samontab says*

Hello Rushil,

It seems to me that the startup scripts were not called. Maybe you forgot to logout and login, or restart the machine before continuing the tutorial.

Try this command:

```
pkg-config --libs opencv
```

It should tell you where the OpenCV libraries are installed. If that does not work, fix it by looking at that part of the tutorial, otherwise the buildall.sh will not work.

August 12, 2014, 7:01 pm



25. *Rushil says*

Hey sam,

I had not installed all the VTK packages.
I downloaded them and it works like a charm now.

Cheers!

August 13, 2014, 8:20 am



26. *samontab says*

Great to hear that it worked Rushil

August 25, 2014, 9:45 pm



27. *baran says*

hello i really need ur help

my system is 12.10 and i get cmake warning

Looking for ffmpeg/avformat.h - not found

i really need your help please..

August 16, 2014, 8:21 am



28. *samontab says*

You can try building FFMPEG:

<http://www.samontab.com/web/2011/06/installing-opencv-2-2-in-ubuntu-11-04/>

August 25, 2014, 9:47 pm



29. RB says

Nice tutorial although it is missing additional information on some quite notorious issues such as the FFMPEG support. OpenCV usually (always? :D) requires some older version of the FFMPEG library that is currently installed on most people's systems so you are quite often forced to seek out which version exactly you have to download, build and install in order for the OpenCV's compilation procedure not to throw some poop in your face with FFMPEG somewhere between the lines in the resulting error messages. Some of the header files are also often not found concerning:

```
linux/videodev.h  
linux/videodev2.h  
sys/videoio.h  
libavformat/avformat.h  
ffmpeg/avformat.h
```

Some of these can be resolved by manually editing as a root various files but it is ugly and tedious. I'm currently using Debian Wheezy and of course these issues are present. Switched from Ubuntu 12.04 LTS quite recently and there these very same problems were also present. If you look on the internet you will see that most people, who claim that their compilation process was successful, actually have these problems (you can catch their nonsense by looking at their terminal output of the cmake and make phases if any were provided). I'm curious if you had the same issues. If not, you are one hell of a lucky guy! LOL

August 25, 2014, 8:01 pm



30. samontab says

Hi RB,

I actually did not find any issue at all. I am using the standard FFMPEG libraries from the Ubuntu repositories and it is working fine.

I wouldn't call it luck though, just documenting what I am doing and reproducing it from scratch to make sure that it works.

Here for example I was using an older version of FFMPEG:

<http://www.samontab.com/web/2011/06/installing-opencv-2-2-in-ubuntu-11-04/>

August 25, 2014, 9:44 pm



31. Andrew says

Hi. What should I do to configure Qt project for using with opencv?

August 26, 2014, 5:32 am



32. *samontab says*

Hi Andrew,

Just create a makefile for your project. Once you do that, you will be able to open that file with Qt.

August 27, 2014, 7:36 pm



33. *Passiday says*

Thank you for this elaborate guide, Sebastian! I hear that when working with Python, it is suggested to use virtual environments whenever possible. Can you, please, point out how to correctly install OpenCV in a Python virtualenv?

September 9, 2014, 2:32 am



34. *samontab says*

Thanks Passiday,

Using this guide you will have python and OpenCV installed system wide. I haven't installed it on a python virtual environment, so I don't have the instructions for you, sorry.

September 15, 2014, 5:03 pm



35. *Ganesh Babu says*

Well, it worked, thanks for the time you spent.. keep following your site, keep new things posted.....

September 12, 2014, 1:21 pm



36. *samontab says*

Thanks Ganesh Babu

September 15, 2014, 4:58 pm



37. *omar says*

Is this method still working in the case of ubuntu 64bit?

Can you make a tutorial on how to configure codeblock IDE with openCV 2.4.9

September 12, 2014, 2:14 pm



38. *samontab* says

Hi Omar,

I created the guide using Ubuntu 14.04 LTS 64 bits, so it should work. Codeblocks is just an IDE, so it should work exactly the same as with any other library.

September 15, 2014, 4:57 pm



39. *wang qaing* says

when i make it turns out errors that "relocation R_X86_64_32 against ` .rodata.str1.1' can not be used when making a shared object; recompile with -fPIC" can you help me? thank you

September 15, 2014, 10:22 am



40. *samontab* says

Hi wang qaing,

Well, you are either compiling it with other options, or in another environment or OS since it should just work.

You could try adding -fPIC to the compilation line as suggested by the compiler.

September 15, 2014, 5:11 pm



41. *Josimar* says

Thank you for the guide. I tried it and it works.

I'm using Qt Creator like IDE, I can compile openCV files but the windows of OpenCV doesn't show it.

Could you help me?

September 18, 2014, 12:11 pm



42. *Sarvottam Patel* says

Thank you very much, finally it worked for my UBUNTU 14.04 ,However it cost me 2 days but, a nice experience.

September 22, 2014, 2:54 pm



43. *marilu597* says

Amazing guide. Thanks a lot!

October 1, 2014, [3:38 pm](#)



44. *jaidev joshi says*

Thousand likes for the great tutorial thanks for making our life easier.

October 6, 2014, [3:18 pm](#)



45. *Stuart Butler says*

Thanks Sebastian. This is a great guide.

I've created a docker image using it: <https://github.com/stbutler11/docker-opencv>.

October 15, 2014, [6:44 am](#)



46. *Hector says*

Thanks for the guide, It was very useful. But I still have some problems with it. I have a laptop with a cuda capable card with cuda 6.5 version, I got the installation to work but when I try to compile the examples, the following is shown:

```
/usr/bin/ld: no se puede encontrar -lcufft
/usr/bin/ld: no se puede encontrar -lnpps
/usr/bin/ld: no se puede encontrar -lnppi
/usr/bin/ld: no se puede encontrar -lnppc
/usr/bin/ld: no se puede encontrar -lcudart
collect2: error: ld returned 1 exit status
```

If you could help me It would be great. Thanks in advance.

PD: The installation worked but I had to modify NCVPixelOperations.hpp source code.

October 21, 2014, [10:35 am](#)



47. *samontab says*

Hi Hector,

The compiler can't find those libraries. It seems that they are all related to cuda. Check that you have enabled the cuda module in the compilation of opencv, and that the cuda libraries are correctly installed system wide, or if not, add the cuda libs path to the compiler with -L/path/to/cuda/libs in the compilation line.

October 21, 2014, [10:45 am](#)

48. *samontab* says

Hi Hector,

I don't have access to a cuda enabled machine at the moment, so I can't really give you an exact answer but it seems that the linker is not finding the cuda libraries.

You would need to do something like this:

```
g++ main.cpp -L/path/to/cudalibs -lcufft -lnpps ... etc...
```

Where -L is specifying a path for the libraries that you want to use. That's the path that the linker is not getting.

If you don't know where the libraries are, you can try with something like this:

```
locate libcufft
```

That should tell you where that file is.

And of course, make sure that you have the development libraries for cuda installed!.

PS: What were the changes that you made to NCVPixelOperations.hpp?, maybe somebody else will need that as well.

October 27, 2014, [2:56 am](#)

49. *loijing* says

```
from cv import *
ImportError: No module named cv
```

i try tu sample program which included in the package, but i got the above given error type.

I follow all the installation steps given by you.

October 22, 2014, [7:49 am](#)

50. *samontab* says

Hi loijing,

It does not find the cv module. Probably you missed one of the steps of the tutorial. Check that BUILD_NEW_PYTHON_SUPPORT=ON and that you already restarted the pc (or logout-login)

October 27, 2014, [2:49 am](#)

51. *StonJarks* says

Just wanted to say thank you! Great guide. Works perfect!

October 23, 2014, 9:03 am



52. *samontab* says

You are welcome StonJarks

October 27, 2014, 2:38 am



53. *Paul Saunders* says

Hi Sebastian

Thanks so much for putting a usable guide together, that just works! :-) I have used your previous for 12.04 also and that worked flawlessly too...

You write (in relation to dependencies): "This step is very easy, you only need to write the following command in the Terminal". Very true, but are you prepared tell us a little more on how you worked out what the dependencies are/should be? That is the crucial part for me and I feel I would be much more productive if I could figure all that out for myself...

Thanks again and keep up the good work! ;-)

October 27, 2014, 4:20 pm



54. *samontab* says

Hello Paul,

Thanks for your kind words.

In regards what you are asking, it is usually just experience with linux in general. You get to know which libraries are needed for certain things. Also, there are a few libraries or programs that are very specific to the actual version that you are installing and that you have to research a bit to get them.

For example, things like cmake or build-essential are almost always needed to build anything. Other libraries are relatively common like libjpeg-dev libtiff4-dev, which allow reading and writing jpeg and tiff image formats for example. By the way, generally the packages that end with "-dev" install the development files for that program.

Also, you could try using cmake-gui which is a GUI for cmake and lists all the option the program has (if it using cmake). That way you can have an idea of what libraries it should need.

And lastly, I recommend you using virtual machines as you can always create snapshots, try something, and go back in time if something went wrong, or you don't know how to undo something you did.

October 27, 2014, 7:49 pm



55. *hamzeh* says

When using make i just receive the following answer:

-bash: make: command not found

October 31, 2014, [5:44 am](#)



56. *samontab says*

Hi hamzeh,

You probably skipped the initial installation of the needed tools. At least you should install this to have make:

```
sudo apt-get install build-essential
```

November 3, 2014, [9:29 pm](#)



57. *Daisuke Tsuji says*

thanks!!!

November 8, 2014, [12:41 am](#)



58. *Selina says*

Thank you very much. I just follow your step, it works very well.

I also set OPENNI on, which is often used with Kinect.

I follow this post

<http://chooruicode.com/2013/07/23/how-to-build-opencv-with-openni-on-ubuntu/>

It will be great if you can also combine this one into your post, then it is more comprehensive.

November 9, 2014, [12:34 pm](#)



59. *samontab says*

You can use Qt 5 as well with OpenCV.

November 11, 2014, [8:05 pm](#)



60. *Keegan.Ren says*

god, may be you can add pcl with all of about you compile.

November 10, 2014, [10:51 am](#)



61. *samontab says*

Hi Keegan.Ren,

Sure, I can. Maybe in another post.

November 11, 2014, 8:04 pm



62. hamzeh says

thank you very much

but i still need your help because there is somthing wronge

i insall this command “sudo apt-get install build-essential” but it doesn’t generate makefile

when i use this “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 ..”

i just again receive the following answer:

-bash: make: command not found

November 11, 2014, 7:11 pm



63. samontab says

Hello hamzeh,

You don’t have the required programs to compile it. Make sure that you install them first. This is done at the beginning of the tutorial.

November 11, 2014, 8:03 pm



64. mxer says

So glad you published this. Sometimes I just want a hassle-free install, and this was truly the ticket.

November 12, 2014, 11:56 am



65. samontab says

Glad to hear it worked for you mxer.

November 18, 2014, 2:42 am



66. Assma says

Thank you very much mr samontab. it works very nice. I like to work with OpenCV and Ubuntu, I am a condidate Ph.D in Computer Vision

November 14, 2014, 8:01 am



67. samontab says

All the best, Assma.

November 18, 2014, 2:43 am



68. *Girmaw says*

Thanks man, you have been very helpful for along time, for varieties of opencv and ubuntu versions.

Cheers,

November 21, 2014, 10:18 am



69. *samontab says*

Thanks Girmaw!

November 30, 2014, 6:08 am



70. *doo-sol Lee says*

hi. Thank you for your guide.
but i have some problem.
when I typed 'make'
I found error...

In file included from /usr/include/qt4/QtOpenGL/QtOpenGL:5:0,
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.h:46,
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.cpp:47:
/usr/include/qt4/QtOpenGL/qgl.h:85:17: error: 'GLdouble' has a previous declaration
as 'typedef GLfloat GLdouble'
typedef GLfloat GLdouble;
^

In file included from /usr/include/GL/gl.h:2059:0,
from /usr/include/GL/glx.h:32,
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.cpp:59:
/usr/include/GL/glext.h:468:19: error: conflicting declaration 'typedef std::ptrdiff_t
GLsizeiptr'
typedef ptrdiff_t GLsizeiptr;
^

In file included from /usr/include/qt4/QtOpenGL/qgl.h:79:0,
from /usr/include/qt4/QtOpenGL/QtOpenGL:5,
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.h:46,
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.cpp:47:
/usr/include/GLES2/gl2.h:69:25: error: 'GLsizeiptr' has a previous declaration as
'typedef khronos_ssize_t GLsizeiptr'
typedef khronos_ssize_t GLsizeiptr;
^

In file included from /usr/include/GL/gl.h:2059:0,
from /usr/include/GL/glx.h:32,
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.cpp:59:

```
/usr/include/GL/glext.h:469:19: error: conflicting declaration 'typedef std::ptrdiff_t  
GLintptr'  
typedef ptrdiff_t GLintptr;  
^  
In file included from /usr/include/qt4/QtOpenGL/qgl.h:79:0,  
from /usr/include/qt4/QtOpenGL/QtOpenGL:5,  
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.h:46,  
from /home/ubuntu/opencv-2.4.9/modules/highgui/src/window_QT.cpp:47:  
/usr/include/GLES2/gl2.h:70:26: error: 'GLintptr' has a previous declaration as  
'typedef khronos_intptr_t GLintptr'  
typedef khronos_intptr_t GLintptr;  
^  
make[2]: *** [modules/highgui/CMakeFiles/opencv_highgui.dir/src/window_QT.cpp.o] Error 1  
make[1]: *** [modules/highgui/CMakeFiles/opencv_highgui.dir/all] Error 2  
make: *** [all] Error 2
```

can you help me??

December 1, 2014, 9:49 am



71. *samontab says*

Hi doo-sol Lee,

It seems that the system is not finding OpenGL.

Make sure that the cmake option for OpenGL is there (WITH_OPENGL=ON) and that you correctly installed all the dependencies at the beginning.

Also, make sure that you are using these specific versions: Ubuntu 14.04 LTS, and OpenCV 2.4.9. The guide should still work in other environments, but with those versions, it is copy paste ready :)

December 1, 2014, 7:49 pm



72. *doo-sol Lee says*

Hi, again me...

thank you for your reply.

I'm working on beaglebone Board.(based on ARM cortex-A8)

I installed bone-ubuntu-14.04.1-console-armhf-2014-10-29-2gb.img on beaglebone board.

You said that I had to install Ubuntu LTS 14.04.

Then, your guide is unsuitable to me?

sorry for my poor English...

December 3, 2014, 3:38 am



73. *samontab says*

Hi doo-sol Lee,

That is a completely different environment. You can use the tutorial as a guide, but definitely it will not work just copy pasting it.

Some libraries that OpenCV requires may not be there in your repositories, and so on.

December 3, 2014, 3:48 am



74. *saurabh says*

awesome tutorial man..

December 4, 2014, 5:03 pm



75. *samontab says*

Thanks saurabh

December 4, 2014, 7:35 pm



76. *Armando says*

Hi when i try to build my code I have this error message:

"OpenCV Error: Unspecified error (The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script) in cvNamedWindow, file /hdd/buildbot/slaves/slave_jetson_tk1/52-O4T-L4T/opencv/modules/highgui/src/window.cpp, line 483

terminate called after throwing an instance of 'cv::Exception'

what(): /hdd/buildbot/slaves/slave_jetson_tk1/52-O4T-L4T/opencv/modules/highgui/src/window.cpp:483: error: (-2) The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script in function cvNamedWindow"

What is this? what can i do to solve it

December 8, 2014, 7:50 am



77. *samontab says*

Hi Armando,

It seems that you did not install any library for managing windows, which is needed by HighGUI.

Just re compile opencv by following this tutorial line by line, and it should work. Don't skip any part of it.

December 8, 2014, 7:54 pm



78. KV says

Hi.. This helped me a lot,..Thank you so much.

We want to pull the data from facebook and using pulled data edit the sample video with facebook pictures and play in the browser. Sample video has placeholders which is moving . I have to track the placeholder's position using openCV and have to replace it with facebook pictures.

Is it possible to use open CV with html5 and python? If you have any tutorial for that,Please share..

Thank you so much again..

December 9, 2014, 9:08 am



79. samontab says

Hi KV,

Of course you can use OpenCV for that, but OpenCV will only deal with the image processing part, you should take care of the web interface.

Having said that, probably OpenCV is not the ideal candidate for that particular task. Maybe something like imagemagick would be easier to use in your case.

December 22, 2014, 9:09 pm



80. Rene says

hy, this is a great tutorial - many thanks.

Unfortunately i have the same troubles as Armando has (one post prior)

OpenCV Error: Unspecified error (The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script) in cvNamedWindow, file /home/rene/Ubuntu_System/opencv-2.4.10/modules/highgui/src/window.cpp, line 483

terminate called after throwing an instance of 'cv::Exception'

what(): /home/rene/Ubuntu_System/opencv-2.4.10/modules/highgui

/src/window.cpp:483: error: (-2) The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script in function cvNamedWindow

Aborted (core dumped)

ARMANDO, do you have any ideas so far how to solve this?

Many thanks!!!

December 9, 2014, [11:48 am](#)



81. *samontab says*

Hi Rene,

If you just copy and paste the instructions, it should work. At least using OpenCV 2.4.9 under Ubuntu 14.04 LTS. If you use any other distro or version of OpenCV, it should still work, but you should know what you are doing, and check every step. The error that you are showing here is related to a GUI. Try the suggested solution (sudo apt-get install libgtk2.0-dev pkg-config) and then re run the tutorial.

December 22, 2014, [9:02 pm](#)



82. *Rene says*

..its me again :-)

i tried the 2 cpp-examples and they worked fine.

So am i am right, if i assume that only namedWindow-commands will not work?
does this mean my opencv-installation is fine actually?
dows this mean i could work with programs, which do not require windows?

many thanks for your help!

December 9, 2014, [1:06 pm](#)



83. *samontab says*

Hi Rene,

It seems that the only error is GUI related, so you may use the library for the rest of the functionality. Although, I would not recommend using it because who knows what else is missing. Highgui is the module for GUI and also for I/O, so reading and writing images and video, and also reading from keyboard and mouse. I recommend you to install opencv properly first.

By the way, do you need to use the latest OpenCV?, otherwise just use the included pre compiled version from the application manager!

December 22, 2014, [9:05 pm](#)



84. *Rama Krishna Reddy says*

The best guide for beginners Thanks for helping beginners like me. Keep doing good work.

December 14, 2014, [8:49 am](#)

85. samontab says

You are welcome Rama Krishna Reddy

December 22, 2014, 8:59 pm

86. hotice says

Works with OpenCv 2.4.10 too. Just replace 2.4.9 to 2.4.10 while executing commands on terminal.

Tested in Ubuntu Gnome 14.04 and Xubuntu 14.04

December 15, 2014, 9:57 am

87. samontab says

Thanks for that hotice.

December 22, 2014, 8:58 pm

88. Javier says

Hi! I followed the tutorial and everything worked with no errors but I don't have the java folder inside the build folder and I need it in order to work with eclipse.. Do you know why this happened?

Thanks!

December 15, 2014, 7:27 pm

89. samontab says

Hi Javier,

Probably you did not include Java in the cmake step.

December 22, 2014, 8:57 pm

90. Gabriel Martins says

Hi! Thanks for the tutorial. I just got a problem.

All examples run great. But that from Qt_sample is giving error in OpenGL. I also run other examples that uses OpenGL and no problem appeared. I used CMake like you and added the flag WITH_OPENGL=ON and received a YES(that was reconized). Do you know what this problem can be? Sorry for the english. Ty

December 28, 2014, 11:00 pm

91. *samontab says*

Hi Gabriel,

Hard to tell without the exact error.

December 28, 2014, 11:02 pm

92. *Gabriel Martins says*

I just got this:

after cmake ..

```
— The C compiler identification is GNU 4.8.2
— The CXX compiler identification is GNU 4.8.2
— Check for working C compiler: /usr/bin/cc
— Check for working C compiler: /usr/bin/cc — works
— Detecting C compiler ABI info
— Detecting C compiler ABI info - done
— Check for working CXX compiler: /usr/bin/c++
— Check for working CXX compiler: /usr/bin/c++ — works
— Detecting CXX compiler ABI info
— Detecting CXX compiler ABI info - done
— Looking for XOpenDisplay in /usr/lib/x86_64-linux-gnu/libX11.so;/usr/lib/x86_64-linux-gnu/libXext.so
— Looking for XOpenDisplay in /usr/lib/x86_64-linux-gnu/libX11.so;/usr/lib/x86_64-linux-gnu/libXext.so - found
— Looking for gethostbyname
— Looking for gethostbyname - found
— Looking for connect
— Looking for connect - found
— Looking for remove
— Looking for remove - found
— Looking for shmat
— Looking for shmat - found
— Looking for IceConnectionNumber in ICE
— Looking for IceConnectionNumber in ICE - found
— Found X11: /usr/lib/x86_64-linux-gnu/libX11.so
— Found OpenGL: /usr/lib/x86_64-linux-gnu/libGL.so
— Configuring done
— Generating done
— Build files have been written to: /home/gabriel-pc/Documentos/opencv-2.4.9/samples/cpp/Qt_sample/build
after ./ ..
OpenCV Error: No OpenGL support (Library was built without OpenGL support) in cvNamedWindow, file /home/gabriel-pc/Documentos/OpenCV/opencv/modules/highgui/src/window_gtk.cpp, line 845
terminate called after throwing an instance of 'cv::Exception'
```

what(): /home/gabriel-pc/Documentos/OpenCV/opencv/modules/highgui
/src/window_gtk.cpp:845: error: (-218) Library was built without OpenGL support in
function cvNamedWindow

Abortado (imagem do núcleo gravada)

December 28, 2014, 11:17 pm



93. *samontab* says

Hi Gabriel,

It seems that OpenGL is not being detected, or not being selected.

January 2, 2015, 12:58 am



94. *Majed* says

Hi Samon

You defintely did great job. You should be proud of it. I personally appreciate your work.

Thank you so much dear.

Majed

December 29, 2014, 1:03 pm



95. *samontab* says

Thanks Majed

January 2, 2015, 12:57 am



96. *PRIME* says

Your guide is on point. Keep it up!

December 29, 2014, 9:30 pm



97. *samontab* says

Thanks PRIME

January 2, 2015, 12:57 am



98. *Jonathan* says

Thanks for a great guide, very precise and the only one of many that actually worked

for me ;)

December 30, 2014, [1:09 pm](#)



99. *samontab* says

You are welcome Jonathan

January 2, 2015, [12:57 am](#)



100. *Dmitry* says

Install libqt5opengl5-dev on ubuntu 14.04

January 1, 2015, [3:56 pm](#)



101. *samontab* says

Hi Dmitry,

You can still use Qt 4.8 on Ubuntu 14.04. Of course Qt5 can be used as well, but there are a few projects that still depend on the older Qt 4.8.

January 2, 2015, [12:56 am](#)



102. *Roka* says

Thank you very much for your guide, it was very helpful. I have followed the instructions of many tutoriels but none works. Your guide is perfect, thank you again.

January 2, 2015, [7:17 pm](#)



103. *samontab* says

You are welcome Roka. I'm glad it worked for you too.

January 2, 2015, [7:18 pm](#)



104. *Caleb H.* says

Regarding the error about '-fPIC', it seems that when configuring/building ffmpeg, you need to include '-enabled-shared'. This is mentioned in an older version of this guide: <http://www.samontab.com/web/2011/06/installing-opencv-2-2-in-ubuntu-11-04/>

Where the full configure command for ffmpeg is:

```
./configure --enable-gpl --enable-version3 --enable-nonfree --enable-postproc --enable-libfaac --enable-libopencore-amrnb --enable-libopencore-amrwb --enable-libtheora --enable-libvorbis --enable-libxvid --enable-x11grab --enable-swscale --enable-shared
```

Thanks for the awesome tutorial!

January 3, 2015, 10:49 am



105. *samontab says*

Hi Caleb,

I think you are right.

January 3, 2015, 8:12 pm



106. *Roberto says*

Thanks a lot, it worked like a charm!

January 3, 2015, 2:23 pm



107. *samontab says*

You are welcome Roberto

January 3, 2015, 8:12 pm



108. *Thomas says*

Thanks alot, this was really helpful

January 3, 2015, 6:08 pm



109. *samontab says*

You are welcome Thomas

January 3, 2015, 8:12 pm



110. *Hensly Jemio says*

Hi, Sebastian I am just trying to learn OpenCV through your video course, however trying to install the 2.4.9 version. Everything worked well till I've tried to run the Facedetect example..it executes but at the end this sentence appears:

init done
opengl support available
In image read
Illegal instruction <--THIS

And nothing happens. I've tried the contours, polar_transforms and they work..guessing I could say that the problem involves some type of raster managing function..please give me a hand

Atte.
Hensly

January 4, 2015, 5:05 am

111.  samontab says

Hello Hensly,

Great to hear that you are using my videos. I hope they are useful for you.

About your specific issue, it seems that it is somehow related to reading an image from disk. Try using a webcam or a video file.

If that also does not work, try using a different model file (I am referring to the xml that represents the object).

January 4, 2015, 7:33 pm

112.  someone says

Thank you so much samontab. It's a great tutorial for beginners

January 17, 2015, 5:14 pm

113.  jsparks says

The wealth of examples provided with opencv are incredible, your guide provides the perfect jumpstart.

January 23, 2015, 2:26 am

114.  Nabil says

That was so helpful and so clear. Best tutorial to install openCV in ubuntu. Thanks a lot you are amazing..

January 30, 2015, 8:26 pm

115.  samontab says

Thanks Nabil!

February 1, 2015, 1:48 am

116.  Dimas Andriyanto S. says

Thanks for tutorial Mr. Sebastian Montabone
I'm trying again and now is success.

February 6, 2015, 7:58 pm



117. *samontab* says

Hi Dimas Andriyanto S.,

Great to hear that it worked for you.

February 9, 2015, 8:00 pm



118. *Jaime Lopez* says

Hi Sebastian,

I almost couldn't put to work opencv on ubuntu, finally it works now, but when I look what version is working, it shows version 2.4.8., it is strange because I dont have this folder anywhere, just 2.4.9.

How can I update my opencv installation, from 2.4.8 to 2.4.9, without to have problems it works again?.

Thanks in advance, Jaime

February 9, 2015, 7:06 pm



119. *samontab* says

Hi Jaime,

Maybe you were trying to install it through the repositories. Make sure that you uninstall everything related to opencv (You can open the application manager to do it with a GUI), and then restart this guide, step by step, and it should work.

February 9, 2015, 8:00 pm



120. *Praveen* says

OpenCV modules are missing - contrib

Plz help me out as I am not able to get solution from any where.

```
root@praveen:/home/praveen/opencv/opencv/samples/cpp# make
[100%] Building CXX object CMakeFiles/facerec_demo.dir/facerec_demo.cpp.o
/home/praveen/opencv/opencv/samples/cpp/facerec_demo.cpp:20:31: fatal error:
opencv2/contrib.hpp: No such file or directory
#include "opencv2/contrib.hpp"
^
compilation terminated.
make[2]: *** [CMakeFiles/facerec_demo.dir/facerec_demo.cpp.o] Error 1
make[1]: *** [CMakeFiles/facerec_demo.dir/all] Error 2
```

make: *** [all] Error 2

I have explored few option but not able to get direct way to add missing modules.

February 12, 2015, 7:42 am

121.  *samontab* says

Yes, the contrib modules are not included as they are experimental. Here you can get the information on how to use them:

https://github.com/itseez/opencv_contrib

It is better to use them with OpenCV 3 by the way, which is also beta.

February 16, 2015, 8:12 pm

122.  *Shashank* says

I get this while installing the dependencies :(

Reading package lists... Done

Building dependency tree

Reading state information... Done

Some packages could not be installed. This may mean that you have requested an impossible situation or if you are using the unstable distribution that some required packages have not yet been created or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

libcheese-gtk23 : Depends: libclutter-gtk-1.0-0 (>= 0.91.8) but it is not going to be installed

Depends: libcogl15 (>= 1.15.8) but it is not going to be installed

libcheese7 : Depends: libclutter-gst-2.0-0 (>= 0.10.0) but it is not going to be installed

Depends: gstreamer1.0-clutter but it is not going to be installed

libclutter-1.0-0 : Depends: libcogl-pango15 (>= 1.15.8) but it is not going to be installed

Depends: libcogl15 (>= 1.15.8) but it is not going to be installed

E: Error, pkgProblemResolver::Resolve generated breaks, this may be caused by held packages.

February 24, 2015, 3:33 pm

123.  *samontab* says

Hi Shashank,

This means that you have some dependencies issues. If you can, start with a freshly

installed OS. If you can't try removing the problematic packages.

February 24, 2015, [8:10 pm](#)



124. Rob says

Please give me your paypal data so I can transfer you my life. Million thanks for this documentation, why isn't the whole web like this?

March 5, 2015, [10:35 am](#)



125. Paz says

Hello,

All examples in the tuturial are working for me, but when I tried to compile the rest of the examples in viz directory, following the example, they don't work, I know I have to import vtk, but I don't know how to do it. Can you give me a makefile, or a sentence, to compile the example: /opencv-2.4.9/samples/cpp/tutorial_code/viz/creating_widgets.cpp.

And do you know how to include all necessary to run this example in QT Creator IDE? Or not this example but this: /home/paz/opencv-2.4.9/samples/cpp/Qt_sample/qt_opengl.cpp or other which uses Qt and at the same time VTK libraries.

Thank you so much!

March 5, 2015, [6:07 pm](#)



126. samontab says

Hi Paz,

For running the examples in Qt Creator, take a look at my post about the [Edison, Qt Creator, and CMake](#).

You will learn how to use any CMake project in Qt Creator.

About the other viz examples not working, you are right. The viz module is meant to be used in OpenCV 3.0, so it is now fully supported in 2.4.9.

March 5, 2015, [7:23 pm](#)



127. AntonisP says

import cv2 is failling.

(same problem: <http://stackoverflow.com/questions/19876079/opencv-cannot-find-module-cv2>)

The workarround is

import sys

```
sys.path.append('/opt/ros/hydro/lib/python2.7/dist-packages')
```

March 5, 2015, [8:30 pm](#)



128. *samontab* says

Thanks AntonisP... I assume this problem appeared in OpenCV 2.4.10, right?. I haven't checked that solution yet though.

March 5, 2015, 8:32 pm



129. *AntonisP* says

<http://code.opencv.org/issues/3814>

problem with cuda6.5.

Bug is fixed in newer version so, I updated the NCVPixelOperations.hpp file.

March 5, 2015, 8:34 pm



130. *samontab* says

OK, thanks AntonisP!

March 5, 2015, 8:35 pm



131. *AntonisP* says

<>

No in OpenCV 2.4.9. I followd the procedure as you have it.

March 5, 2015, 8:38 pm



132. *Savanna* says

I am installing OpenCV 2.4.9 on Ubuntu 14.04. When I install dependancies (using command sudo apt-get install build-essential), it gives me an error saying some packages are not installed. The error is given below:

The following packages have unmet dependencies:

libcheese-gtk23 : Depends: libclutter-gtk-1.0-0 (>= 0.91.8) but it is not going to be installed

Depends: libcogl15 (>= 1.15.8) but it is not going to be installed

libcheese7 : Depends: libclutter-gst-2.0-0 (>= 0.10.0) but it is not going to be installed

Depends: gstreamer1.0-clutter but it is not going to be installed

libclutter-1.0-0 : Depends: libcogl-pango15 (>= 1.15.8) but it is not going to be installed

Depends: libcogl15 (>= 1.15.8) but it is not going to be installed

E: Error, pkgProblemResolver::Resolve generated breaks, this may be caused by held packages.

Kindly help with this matter.

March 7, 2015, 2:11 pm



133. *Fernanda says*

I had some dependencies issues:

Reading package lists... Done

Building dependency tree

Reading state information... Done

Some packages could not be installed. This may mean that you have requested an impossible situation or if you are using the unstable distribution that some required packages have not yet been created or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

libcheese-gtk23 : Depends: libclutter-gtk-1.0-0 (>= 0.91.8) but it is not going to be installed

Depends: libcogl15 (>= 1.15.8) but it is not going to be installed

libcheese7 : Depends: libclutter-gst-2.0-0 (>= 0.10.0) but it is not going to be installed

Depends: gstreamer1.0-clutter but it is not going to be installed

libclutter-1.0-0 : Depends: libcogl-pango15 (>= 1.15.8) but it is not going to be installed

Depends: libcogl15 (>= 1.15.8) but it is not going to be installed

E: Error, pkgProblemResolver::Resolve generated breaks, this may be caused by held packages.

I've solved it by installing these dependencies:

```
sudo apt-get install libglew-dev libcheese7 libcheese-gtk23 libclutter-gst-2.0-0  
libcogl15 libclutter-gtk-1.0-0 libclutter-1.0-0
```

March 11, 2015, 1:10 am



134. *Arka says*

Thanks a lot. Great tutorial, worked for me. Except that I was unable to run the first example of the new c++ interface and the python, java, and open gl code. I have installed java jre-8 and python 2.7, but it still didn't work. It says:

Traceback (most recent call last):

```
File "/home/arktheshadow/opencv-2.4.9/samples/python2/turing.py", line 11, in  
import cv2
```

ImportError: No module named cv2

I have little idea why this is happening. Could you please help me with this.

March 11, 2015, 5:30 pm



135. *Arati says*

Thanks a lot. i could install opencv in ubuntu successfully. If anybody has problem to modify /etc/bash.bashrc then try following

```
$ echo "PKG_CONFIG_PATH=$PKG_CONFIG_PATH:/usr/local/lib/pkgconfig  
export PKG_CONFIG_PATH /usr/local/lib" >> /etc/bash.bashrc
```

March 12, 2015, 4:03 am



136. *Aditi says*

Thanks a lot for this awesome tutorial.

I have been trying to create finger detection code in python. Could you please help with the same?

March 14, 2015, 6:22 am



137. *samontab says*

Aditi. It depends on the setup that you are using. Some things to consider: spectrum of the camera, lenses used, sensor size, min and max distance from hands to the camera, camera speed, 2D or 3D camera, etc...

March 15, 2015, 8:07 pm



138. *Akash says*

During the execution of "make " command it does uptill 77% and then shows an error

```
[ 77%] Built target pch_Generate_opencv_contrib  
[ 77%] Built target opencv_contrib  
[ 77%] Built target opencv_test_contrib_pch_dephelp  
[ 77%] Built target pch_Generate_opencv_test_contrib  
[ 77%] Built target opencv_test_contrib  
[ 77%] Built target opencv_java  
/bin/sh: 1: cannot create /home/akash/opencv-2.4.10/build/modules/java/test/.build  
/ant-Release.properties: Permission denied  
make[2]: *** [modules/java/test/CMakeFiles/opencv_test_java_properties] Error 2  
make[1]: *** [modules/java/test/CMakeFiles/opencv_test_java_properties.dir/all]  
Error 2  
make: *** [all] Error 2
```

March 15, 2015, 7:03 am



139. *samontab says*

Hi Akash. There seems to be a problem with your permission for the Java bindings. Try disabling them, or correcting the permissions.

March 15, 2015, 8:05 pm



140. *Akash says*

I am installing opencv 2.4.10 on ubuntu 14.04

March 15, 2015, 7:05 am



141. *crack.mech says*

Hi samontab!

Thanks a lot for your instructions. I hav been following your instructions to install OpenCV on ubuntu for almost 2.5 years now. Everytime I have an issue, I come back to your page.

Thanks once again for your efforts!

-crack.mech

March 17, 2015, 4:10 am



142. *samontab says*

Thanks crack.mech. You definitely take your time to read the instructions :)

March 19, 2015, 8:21 pm



143. *ppp says*

Thank you from Argentina

March 19, 2015, 7:24 pm



144. *samontab says*

Thanks!, interesting email :)

March 19, 2015, 8:20 pm



145. *enami says*

Thank youuuuu :D

March 20, 2015, 8:10 pm



146. *samontab says*

You are welcome enamii

March 29, 2015, 12:12 am

147.  *sandeep says*

thanks you sir.Your guide was my only hope of getting opencv installed.it worked.my project was entirely based on opencv.so if it didn't work,i would have been in trouble.thanks for the help.

if possible i have an error in scilab.can you help to resolve it.
thanks.

March 29, 2015, 8:36 am

148.  *samontab says*

You are welcome sandeep. Good to hear that it worked for you.

March 29, 2015, 8:57 am

149.  *sandeep says*

sir,

i have a problem in scilab.while trying to install sivp in scilab in unbuntu 14.04 it get an error :

SIVP - Scilab Image and Video Processing Toolbox

Load macros

Load gateways

atomsLoad: An error occurred while loading 'SIVP-0.5.3.1-2':

link: The shared archive was not loaded: libtiff.so.4: cannot open shared object file:

No such file or directory

!-error 10000

at line 335 of function atomsLoad called by :

atomsLoad SIVP

can you help me resolve this.it would be of great help.
thanks

March 29, 2015, 10:40 am

150.  *samontab says*

Just install scilab with this:

`sudo apt-get install scilab`

And it should be fine.

Also, this may be useful:

<http://stackoverflow.com/questions/23380652/scilab-sivp-atomsload-error>

March 29, 2015, 6:23 pm



151. *Josue says*

Hi.

I have a questin. Howi can compile and run my own programs?

Ty

April 1, 2015, [5:38 pm](#)



152. *samontab says*

Hi Josue, if you have your program in hello.cpp, just run this:

```
g++ `pkg-config --cflags opencv` -o hello hello.cpp `pkg-config --libs opencv`
```

Then, you can run it like this:

```
./hello
```

April 1, 2015, [10:52 pm](#)



153. *fidelcastro says*

Thank you!

April 1, 2015, [6:21 pm](#)



154. *Nagaraj says*

Hi Samontab,

After installing opencv, how we can link python to opencv because i need to write the code in python.Please give the instruction to solve the above problem.

Thank you.

April 5, 2015, [5:05 am](#)



155. *samontab says*

Hi Nagaraj,

If you follow the instructions on this guide, you should end up with a Python enabled installation of Opencv. Just run the included python samples!

April 9, 2015, [8:29 pm](#)



156. *keer says*

Linking CXX shared library ../../lib/libopencv_highgui.so

```
/usr/bin/ld: /usr/local/lib/libavformat.a(rmsipr.o): relocation R_X86_64_32 against  
`_rodata' can not be used when making a shared object; recompile with -fPIC  
had this error
```

```
/usr/local/lib/libavformat.a: error adding symbols: Bad value
collect2: error: ld returned 1 exit status
make[2]: *** [lib/libopencv_highgui.so.2.4.9] Error 1
make[1]: *** [modules/highgui/CMakeFiles/opencv_highgui.dir/all] Error 2
make: *** [all] Error 2
```

[April 12, 2015, 3:47 pm](#)



157. *samontab* says

Hi Keer,

It seems that you are mixing static and shared libraries in your compilation. Make sure everything is static or everything is shared.

[April 12, 2015, 8:53 pm](#)



158. *Vijay* says

Hi Sebastian,

thanks for the tutorial. It made my life easier.

Do you have any similar tutorial on installing opencv 3.0 beta in ubuntu 14.04 lts (with python enabled)? Thanks in advance.

[April 14, 2015, 11:27 am](#)



159. *samontab* says

Hi Vijay,

The process should be very similar...

[April 15, 2015, 10:36 am](#)



160. *keer* says

Hi,

finally i re install ubuntu 14.04 and follow this method for opencv 2.4.10 it worked perfectly

Thank you very very much samontab.

[April 14, 2015, 1:31 pm](#)



161. *samontab* says

Great to hear that it worked for you keer

April 15, 2015, 10:37 am



162. *drvit says*

Is texlive-latex-extra really necessary? It is huge.

April 17, 2015, 2:14 pm



163. *samontab says*

Hi drvit,

That package is only necessary for building the documentation, so it is not essential.

April 17, 2015, 3:00 pm



164. *wisnu says*

Hello and thanks for the helping tutorial samontab. I already followed your step and it done. But my project need BackgroundSubtractorGMG library. I have checked in OpenCV 2.4.9 and theres no the name of that. What must I do? for your help thank you.

April 27, 2015, 10:50 pm



165. *samontab says*

Hi Wisnu,

BackgroundSubtractorGMG is implemented in OpenCV 3.0. You can download and compile that version using this tutorial, but keep in mind that it is still in beta and some 2.x code will not compile with it.

April 27, 2015, 11:37 pm



166. *Rajiv says*

Hi Samon,

I installed open-cv per your documentation above. First, thank you for putting this up. My installation is on ubuntu 14.04. The issue I have is that I keep getting this error:

This application failed to start because it could not find or load the Qt platform plugin "xcb".

Reinstalling the application may fix this problem.

Aborted (core dumped)

I have tried running ldd on /usr/lib/x86_64-linux-gnu/qt5/plugins/platforms/libqxcb.so and it looks like nothing is missing. I also tried reinstalling and a bunch of other

things. Any ideas on how to fix this?

May 5, 2015, 11:31 am



167. *samontab says*

Hi Rajiv,

Well, it seems to be related to Qt5. You could try with Qt4.

If you want to use Qt5, there seems to be a lot of information on how to solve the xcb problem on other forums.

May 5, 2015, 11:41 am



168. *Rajiv says*

Hi Samon,

I tried the installation with qt4 and that for some reason gave me a similar error. It turns out that setting the following variable fixed the issue for me:

`export QT_QPA_PLATFORM_PLUGIN_PATH=path/to/plugins`

Thanks for your help.

Rajiv

May 6, 2015, 1:20 pm



169. *samontab says*

Good to hear that Rajiv!

May 7, 2015, 9:13 am



170. *Rajiv says*

Hi Sebastian,

I accidentally addressed you as samon - based on the website url. I apologize for the oversight. Thanks for sharing all this information again.

Rajiv

May 6, 2015, 1:23 pm



171. *samontab says*

No worries Rajiv!

May 7, 2015, 9:10 am



172. *Wisnu says*

hello samontab, I am done installing your tutorial, hey thanks! I want to ask you a

question, what opencv version that have BackgroundSubtractorGMG library? because I run my code in this version it cannot run, how can I upgrade to that version? for your help thank you.

May 10, 2015, 11:16 pm



173. *samontab says*

Hi Wisnu,

That functionality is available in OpenCV 3, which will soon be released (Now it is at Release Candidate stage).

You can install it following my tutorial, it should mostly be the same.

May 10, 2015, 11:20 pm



174. *Wisnu says*

thank you for the reply samontab, Ok I will search for opencv 3.x.x version. Do I need to uninstall the package of opencv 2.4.9, or I just upgrade it? sorry if I ask you a whole of question. I am still a newbie. I used opencv and python binding for my project.

anyway thank you for the help samontab.

May 11, 2015, 12:28 am



175. *samontab says*

It will be better to uninstall OpenCV 2 since there may be some inconsistencies with OpenCV 3.

You will need to remove all the files that got copied with sudo apt-get install, so you may want to re do that step to get a log of what happened, and remove all of those files.

May 11, 2015, 2:40 am



176. *Wisnu says*

Ok, thanks for the suggest samontab :-). I will practice the uninstalling step in <http://askubuntu.com/questions/564290/how-to-uninstall-opencv-2-4-9-completely-from-ubuntu-14-04>

hey thank you again.

May 11, 2015, 8:50 pm



177. *Wisnu says*

hello samontab, I already installed and build OpenCV 3.0 RC1. I got that opencv in the opencv.org, but when I run my code it has an error that request a module of

BacgroundSubtractorGMG. What do I go wrong? is there missing?
Thank you for the help.

May 12, 2015, 12:48 am



178. [samontab](#) says

You will have to be more precise than that. How did you install it?, how are you compiling your project?, what is the error message?, etc...

May 12, 2015, 2:25 am



179. [Wisnu](#) says

I apply the OpenCV in python 2.7. I re do again your tutorial step but I change in the step

wget <http://sourceforge.net/projects/opencvlibrary/files/opencv-unix/2.4.9/opencv-2.4.9.zip>

and replace it like this:

wget <https://github.com/Itseez/opencv/archive/3.0.0-rc1.zip>

my installation work and I do to run the samples in that opencv folder, like facedetect.py and it is work.

then I compiled my project, the message error is

SMOG = cv2.createBackgroundSubtractorGMG(frame, None, 0.01)

AttributeError: 'module' object has no attribute 'createBackgroundSubtractorGMG'
sorry if it is still not clear. Thank you for the reply samontab.

May 12, 2015, 4:10 am



180. [Asgaro](#) says

Hi,

I'm trying to build OpenCV v3.0.0-rc1 on Ubuntu 14.10.

However, I receive the following regarding VTK when I do qmake:

FIRST MENTION:

— The imported target "vtk" references the file
"/usr/bin/vtk"

but this file does not exist. Possible reasons include:

- * The file was deleted, renamed, or moved to another location.
- * An install or uninstall procedure did not complete successfully.
- * The installation package was faulty and contained
"/usr/lib/cmake/vtk-6.1/VTKTargets.cmake"
but not all the files it references.

— VTK support is disabled. Incompatible combination: OpenCV + Qt5 and VTK ver.6.1.0 + Qt4

SECOND MENTION:

- GUI:
 - QT 5.x: YES (ver 5.3.0)
 - QT OpenGL support: YES (Qt5::OpenGL 5.3.0)
 - OpenGL support: YES (/usr/lib/x86_64-linux-gnu/libGLU.so /usr/lib/x86_64-linux-gnu/libGL.so /usr/lib/x86_64-linux-gnu/libSM.so /usr/lib/x86_64-linux-gnu/libICE.so /usr/lib/x86_64-linux-gnu/libX11.so /usr/lib/x86_64-linux-gnu/libXext.so)
 - VTK support: NO

THIRD MENTION:

- Configuring done
- Generating done

CMake Warning:

Manually-specified variables were not used by the project:

FORCE_VTK

Second question:

your sudo apt-get command says to install: libvtk5-dev.

I however have already libvtk6-dev installed. I assume this is enough? (When I try to install libvtk5-dev it says it will REMOVE libvtk6-dev so I assume I have to stay with libvtk6-dev ?)

KR,

Asgaro

May 12, 2015, 3:31 pm



181. *samontab* says

Hi Asgaro,

First things first. You are using a new version of OpenCV. The change from 2.x to 3.x is a major change, therefore some includes, and other things will need to be changed accordingly.

Also, you are using Ubuntu 14.10, which is neither the latest one(15.04), or a LTS. I recommend you using 14.04LTS if you are going to be working on this project seriously as some dependencies may break the compilation.

About VTK, and Qt. Do you really need them?, if not, just not use them, and it will compile fine. If you do need them, then you need to choose which versions you want to use.

VTK 6 is a major change again from VTK 5. There is a lot of software that still relies on VTK 5, and is not compatible out of the box with VTK 6. The same with Qt. The change from 4 to 5 is important, and many libraries or applications still use version 4.

Having said that, you can still use Qt5 and VTK6 in your program. You just need to

know what you are doing. If you don't know what you are doing, then, just copy and paste all the steps in this tutorial in a Ubuntu 14.04 LTS machine and it will work. You can even replace OpenCV 2.4.9 with the latest (2.4.11 at this time), and it should also work.

May 12, 2015, [8:48 pm](#)



182. *Annmaria Cherian says*

Is text detection is possible in opencv 2.4.9....pls help me my project is text detection in natural scenes.Can you help me to find cpp code for this pls...

May 20, 2015, [5:27 am](#)



183. *samontab says*

Hi Annmaria, Tesseract is a good library for text detection. OpenCV 3 provides an interface to it.

May 21, 2015, [7:33 pm](#)



184. *Eliaz says*

Thanks my friend! great tutorial!! greetings from Perú! You are welcome in this country :)

May 20, 2015, [2:15 pm](#)



185. *samontab says*

You are welcome Eliaz

May 21, 2015, [7:33 pm](#)



186. *Jovanny says*

Excelente tutorial muchas gracias!!!!!!!

Pd, do you have —> OpenCV on ROS

May 21, 2015, [2:27 pm](#)



187. *samontab says*

Thanks Jovanny,

OpenCV is very tightly integrated with ROS so it should be straightforward to use it there...

May 21, 2015, 7:35 pm



188.  *Annmaria Cherian says*

Hi

Can i install opencv 3 in my system .I already installed opencv 2.4.9

May 22, 2015, 2:48 am



189.  *samontab says*

Sure Annmaria, but it would be a good idea to have only OpenCV 2 or OpenCV 3 installed system wide.

You can always just build OpenCV and not install it system-wide, so you can have different versions in your system.

May 22, 2015, 3:03 am



190.  *blach says*

This tutorial's really great! I've been struggling with installation for couple days, but this tutorial helped a lot

May 23, 2015, 11:29 am



191.  *Albert says*

Hi Samontab,

Thanks for the post! I got through it all right but when I go ahead and try use the videoio package for capturing from my web cam, I get VIDEOIO ERROR: V4L/V4L2: VIDIOC_S_CROP. This comes up after I open a VideoCapture stream.

Then I also get the following message when I try to do imshow (this time I think it's the highgui package)...

OpenCV Error: Unspecified error (The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script) in cvNamedWindow, file /home/ahsueh1996/Documents/opencv/modules/highgui/src/window.cpp, line 516

terminate called after throwing an instance of 'cv::Exception'
what(): /home/ahsueh1996/Documents/opencv/modules/highgui/src/window.cpp:516:
error: (-2) The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script in function cvNamedWindow

I have installed opencv once before using your tutorial and am using it on Ubuntu 14.04 with C++ Eclipse IDE. Thanks for your help in advance!

Albert

May 29, 2015, [2:38 am](#)



192.  [samontab](#) says

Hi Albert,

It seems that you don't have installed gtk. Do a sudo apt-get install libgtk2.0-dev, and re build the library.

Video input can be tricky.

May 29, 2015, [2:53 am](#)



193.  [Albert](#) says

Thanks Samontab! I've tried getting the libgtk2.0-dev and I rebuilt opencv with your instructions... I'll give it another shot though :)

June 2, 2015, [12:17 pm](#)



194.  [samontab](#) says

You're welcome Albert.

June 2, 2015, [8:14 pm](#)



195.  [saisha](#) says

i need to install opencv 3.0 plzzz help

June 3, 2015, [7:10 am](#)



196.  [samontab](#) says

The procedure is practically the same as this tutorial.

June 3, 2015, [7:51 am](#)



197.  [saisha](#) says

i hv ubuntu 14.04,, 32bit system

June 3, 2015, [7:12 am](#)



198.  [Mo](#) says

Thanks so much!

June 4, 2015, [11:07 pm](#)



199. *samontab* says

You're welcome Mo

June 4, 2015, [11:11 pm](#)



200. *saisha* says

i am having trouble with opencv_contrib modules, how do i include those

June 5, 2015, [3:23 am](#)



201. *samontab* says

Hi saisha,

To build opencv_contrib modules, just follow the official instructions:

https://github.com/itseez/opencv_contrib

Note that these are a separate set of modules that contain experimental and/or less tested code.

June 10, 2015, [12:31 am](#)



202. *saisha* says

actually i want to use sift and i am new to opencv

June 5, 2015, [5:21 am](#)



203. *samontab* says

Hello saisha,

SIFT is included in OpenCV 2 distribution under the non free module because it is a patented algorithm.

To use nonfree components, you need to explicitly activate it (given that you have a license to use it).

June 10, 2015, [12:40 am](#)



204. *saisha* says

thanks, what abt installing akaze

June 10, 2015, [8:03 am](#)



205. *samontab* says

Thanks saisha,

I think akaze features are available in OpenCV 3.

June 26, 2015, 12:07 am



206. *Himanshi says*

OpenCV Error: Unspecified error (The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script) in cvNamedWindow, file /tmp/buildd/ros-jade-opencv3-2.9.6-0vivid-20150512-2146/modules/highgui/src/window.cpp, line 516
terminate called after throwing an instance of 'cv::Exception'
what(): /tmp/buildd/ros-jade-opencv3-2.9.6-0vivid-20150512-2146/modules/highgui/src/window.cpp:516: error: (-2) The function is not implemented. Rebuild the library with Windows, GTK+ 2.x or Carbon support. If you are on Ubuntu or Debian, install libgtk2.0-dev and pkg-config, then re-run cmake or configure script in function cvNamedWindow

I have opencv with ROS and didn't follow the above installation instructions. Can I use opencv without the ROS cv_bridge? Or do I always have to integrate it with ROS and then use it?

June 18, 2015, 5:49 am



207. *samontab says*

Hi Himanshi,

Yes, you can use opencv without ROS. Just follow this tutorial, or if you don't need a specific version, just install it from the repositories!

June 26, 2015, 12:12 am



208. *Devavrat says*

Thank You man

June 18, 2015, 4:33 pm



209. *samontab says*

You are welcome Devavrat!

June 26, 2015, 12:12 am



210. *New says*

Hi Samontab,

Great tutorial. Thanks. I could install and build examples and run them. But when I tried to write my sample code just to read and display an image, I get the following error message. Can you please help me with what could be the problem?

```
/usr/bin/ld: /tmp/ccefRSsy.o: undefined reference to symbol  
'_ZNSSaIcED1Ev@@@GLIBCXX_3.4'  
//usr/lib/x86_64-linux-gnu/libstdc++.so.6: error adding symbols: DSO missing from  
command line  
collect2: error: ld returned 1 exit status
```

Thanks in advance!

July 7, 2015, 6:24 am



211. *samontab* says

Hello New,

Try compiling your code with this command:

```
g++ `pkg-config --cflags opencv` -o executable main.cpp `pkg-config --libs opencv`
```

July 7, 2015, 8:58 am



212. *nobeyanesa* says

hye. i am new to this stuff (3days learning)

i can run all your examples but now i want to run the face detect.
where the program need to use the webcam. i don't know how to run it.
can you help me with the program facedetect from the samples?

July 9, 2015, 3:18 am



213. *samontab* says

Hi nobeyanesa,

You could just combine an example that reads from the camera, like lkdemo.cpp,
with an example that detects faces, like facedetect.cpp. This should be
straightforward.

July 9, 2015, 8:34 pm



214. *Owen* says

Thank you so much!

July 10, 2015, 2:31 pm



215. *samontab* says

You're welcome Owen.

July 11, 2015, 2:12 am



216. *RobHaii says*

thank you so much for the guide and video tutorials, bro

July 11, 2015, 5:16 am



217. *samontab says*

You're welcome RobHaii

July 11, 2015, 6:18 am



218. *Ankit Bindal says*

First of all thank you . Ur tutorial really helped .

I successfully executed above steps . Even the examples of face recognition you have given works fine on command line .

But when i run it on my python shell ,

import cv2

it gives an error that no module 'cv2' exists .

Please help me out here man .

July 13, 2015, 1:29 am



219. *samontab says*

Thanks Ankit Bindal,

First of all, make sure that you followed all the steps correctly.

Also, make sure that you are using python2, and not python3.

After a correct installation you should have a **cv2.so** file here: **/usr/local/lib/python2.7/dist-packages**.

If you still have this issue, it may be a problem with the paths.

Try the following in python:

```
import sys
sys.path.append('/usr/local/lib/python2.7/dist-packages')
import cv2
```

July 13, 2015, 1:41 am



220. *YD says*

Hi,

I am facing issues with running application written using Openframeworks and OpenCV. They execute well on Debian Weezy with Gnome but if I try to run the same application from a windowmanager like FluxBox I don't get a UI (no errors appear on the console). Have you faced any similar issues. Any help is welcome, have been struggling with this issue for quite sometime now. If I do not use OpenFrameworks and use only C++ and OpenCV the apps work on FluxBox.
Is it that FluxBox has issues running OpenGL apps.
Thanks for your help and this great tutorial.
Cheers,
YD

July 16, 2015, 6:39 am



221. *samontab says*

Hi YD,

Based on your description it seems to be a FluxBox configuration problem. You will have more luck asking in their forums.

July 17, 2015, 7:03 pm



222. *Debottam Kundu says*

When running the command unzip opencv-2.4.9.zip, it says Archive: opencv-2.4.9.zip
End-of-central-directory signature not found. Either this file is not
a zipfile, or it constitutes one disk of a multi-part archive. In the
latter case the central directory and zipfile comment will be found on
the last disk(s) of this archive.

unzip: cannot find zipfile directory in one of opencv-2.4.9.zip or
opencv-2.4.9.zip.zip, and cannot find opencv-2.4.9.zip.ZIP, period.
What am I supposed to do?

July 17, 2015, 4:11 pm



223. *samontab says*

Hi Debottam Kundu,

Try downloading the zip file again. Probably it is just corrupt or it didn't download entirely.

July 17, 2015, 7:01 pm



224. *Aina says*

Thank you for this great tutorial!

Please do you have any C++ and Opencv code about 3D Scene Flow?

Thank you in advanced!

July 21, 2015, 5:53 am

225.  *jetro says*

great work dude!!!

August 1, 2015, 6:14 pm

226.  *janan says*

Please how can i set opencv to work with QT creator
i didn't run cmake with QT flag on when installing opencv
thanks

August 3, 2015, 8:40 am

227.  *samontab says*

Hi janan,

If you are talking about just the Qt Creator IDE, just setup your project as a CMake(or qmake) project and open it with the IDE (Qt Creator).

If you are talking about using the built-in Qt GUI in OpenCV, you need to set the correct flags and re compile OpenCV with Qt support.

If you are talking about using Qt and OpenCV in your project independently, you can just link both libraries.

August 3, 2015, 9:06 am

228.  *Darshan Chaudhary says*

I followed the steps however, the python examples are not working. All the others are. I have anaconda installed, and I am getting the ImportError : No module named cv error.

August 3, 2015, 10:28 am

229.  *samontab says*

Hi Darshan,

You either missed a step, or are using different versions.

August 4, 2015, 7:46 pm

230.  *Mahall says*

Woks like a cham.

Thks dude.

September 12, 2015, [12:28 pm](#)



231. *samontab* says

You're welcome Mahall

September 15, 2015, [9:18 pm](#)



232. *Dmitriy* says

Thanks for this guide! It's really helped me!

September 13, 2015, [7:01 am](#)



233. *samontab* says

You're welcome Dmitriy. I'm glad it worked for you.

September 15, 2015, [9:17 pm](#)



234. *Rashmi* says

Thanks for the great tutorial.

Post the opencv 3.0 alpha installation on Ubuntu 14.04 LTS on an Amazon instance, i run a opencv program to display an image. I get the following error:

No protocol specified

: cannot connect to X server :0.0

I installed ubuntu-desktop

sudo apt-get install -no-install-recommends ubuntu-desktop

but the error continues.

Any help here would be great..

-Rashmi

September 14, 2015, [5:51 am](#)



235. *samontab* says

Hi Rashmi,

Are you running a server version of Ubuntu?, if that's the case, you will not have X by default.

This is not an OpenCV problem, basically you are trying to display something on a

server that does not have a graphical display.

After you installed ubuntu-desktop, you should have an X server though. Can you log into a graphical display?

Make sure that you restart the X server. Easiest way would be to just restart the machine.

If it is not a local machine, you can ssh there with X forwarding. For example ssh -X username@server.com, or if you are in windows, just use xming and putty.

September 15, 2015, 9:32 pm



236.  *Rashmi says*

Hello Samon,

I've installed the ubuntu 14.04 LTS server in an amazon cloud instance.
Post the ubuntu-desktop installation, i open a ssh console to the cloud instance (on my windows laptop)

Here the DISPLAY is not set. I set it "export DISPLAY=:0.0", but the issue continues.

I now understand that this is not a opencv issue.

But any help to resolve the issue would be great. I'm now facing this issue since 3 days.

Thank you so much.

September 16, 2015, 5:58 am



237.  [samontab](#) *says*

Well, if you have an X server running, you could connect to it on Windows using xming and Putty

September 16, 2015, 7:31 am



238.  *Rashmi says*

Xming solved the issue.

I also tried the following:

- Uninstalled the ubuntu-desktop.
- In the putty session, enabled the "X11 forwarding".
- Installed Xming and Xming-Fonts.

With the above setup, i'm able to view images. It seems Ubuntu-desktop is not needed.

Thank you for all your help here.

Now i've another issue:

1) When i run a video using opencv 3.0 alpha on the ubuntu 14.04 LTS server amazon instance (using a putty for a ssh session), i get the following error:

```
ubuntu@ip-172-31-19-159:~/opencv_test$ ./showVid  
libdc1394 error: Failed to initialize libdc1394
```

Any suggestions here would be great. Thank you so much.

September 18, 2015, [5:01 am](#)



239. *samontab* says

Hi Rashmi,

Good to hear that it is working for you.

The other error refers to a video capture library. If you search for it, you get some solutions like these:

<http://stackoverflow.com/questions/12689304/ctypes-error-libdc1394-error-failed-to-initialize-libdc1394>

September 20, 2015, [8:53 pm](#)



240. *Alisha* says

Thanks a lot..Really nice job...

October 17, 2015, [5:03 am](#)



241. *samontab* says

Thanks Alisha!

October 22, 2015, [8:12 pm](#)



242. *Astha* says

Great Tutorial :)

October 27, 2015, [12:21 pm](#)



243. *samontab* says

Thanks Astha!

October 28, 2015, [12:58 am](#)



244. *xiao cheng xing* says

Hi, I am from china, and I met this error when the command "make" is working

.please send the answer to my email :759091957@qq.com
[58%] Building CXX object
modules/nonfree/CMakeFiles/opencv_perf_nonfree.dir/perf/perf_main.cpp.o
In file included from /home/exbot/Downloads/opencv/opencv-2.4.9/modules/nonfree
/perf/perf_main.cpp:28:0:
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp: In function ‘void dumpOpenCLDevice()’:
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:88:9: error: ‘PlatformsInfo’ is not a member of
‘cv::ocl’
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:88:32: error: expected ';' before ‘platforms’
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:89:9: error: ‘getOpenCLPlatforms’ is not a member
of ‘cv::ocl’
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:89:37: error: ‘platforms’ was not declared in this
scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:95:19: error: ‘DevicesInfo’ in namespace ‘cv::ocl’
does not name a type
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:96:39: error: ‘devices’ was not declared in this
scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:98:23: error: ‘DeviceInfo’ in namespace ‘cv::ocl’
does not name a type
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:99:33: error: ‘current_device’ was not declared in
this scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:99:62: error: ‘CVCL_DEVICE_TYPE_CPU’ was not
declared in this scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:100:71: error: ‘CVCL_DEVICE_TYPE_GPU’ was not
declared in this scope
In file included from /home/exbot/Downloads/opencv/opencv-2.4.9/modules/nonfree
/perf/perf_main.cpp:28:0:
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:108:15: error: ‘DeviceInfo’ in namespace ‘cv::ocl’
does not name a type
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:110:9: error: ‘deviceInfo’ was not declared in this
scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:111:9: error: ‘deviceInfo’ was not declared in this
scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2

```
/ocl/private/opencl_dumpinfo.hpp:113:25: error: 'deviceInfo' was not declared in this
scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:113:50: error: 'CVCL_DEVICE_TYPE_CPU' was not
declared in this scope
/home/exbot/Downloads/opencv/opencv-2.4.9/modules/ocl/include/opencv2
/ocl/private/opencl_dumpinfo.hpp:114:61: error: 'CVCL_DEVICE_TYPE_GPU' was not
declared in this scope
make[2]: *** [modules/nonfree/CMakeFiles/opencv_perf_nonfree.dir
/perf/perf_main.cpp.o] Error 1
make[1]: *** [modules/nonfree/CMakeFiles/opencv_perf_nonfree.dir/all] Error 2
make: *** [all] Error 2
exbot@ubuntu:~/Downloads/opencv/opencv-2.4.9/build$ ccmake
The program 'ccmake' is currently not installed. You can install it by typing:
sudo apt-get install cmake-curses-gui
exbot@ubuntu:~/Downloads/opencv/opencv-2.4.9/build$
```

October 28, 2015, 1:17 am

245.  Ashwin D V says

Hi

I followed all the steps mentioned but I changed 2.4.9 to 3.0.0 and when I tried to run python example code I getting this error

```
ashwin@ashwin-Satellite-C50D-A:~$ python ~/opencv-3.0.0/samples/python2
/turing.py
Traceback (most recent call last):
File "/home/ashwin/opencv-3.0.0/samples/python2/turing.py", line 11, in
import cv2
ImportError: No module named cv2
```

November 8, 2015, 6:39 am

246.  Ashwin D V says

Hi

I followed all the steps mentioned but “during” command execution i am getting these errors

```
Linking CXX executable ../../bin/opencv_perf_imgproc
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFIsTiled@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to `TIFFOpen@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFReadEncodedStrip@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFSetField@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
```

```
`TIFFWriteScanline@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFGetField@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFScanlineSize@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFSetWarningHandler@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFSetErrorHandler@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFReadEncodedTile@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFReadRGBATile@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to `TIFFClose@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFRGBAImageOK@LIBTIFF_4.0'  
../../../../lib/libopencv_highgui.so.2.4.9: undefined reference to  
'TIFFReadRGBAStrip@LIBTIFF_4.0'  
collect2: error: ld returned 1 exit status  
make[2]: *** [bin/opencv_perf_imgproc] Error 1  
make[1]: *** [modules/imgproc/CMakeFiles/opencv_perf_imgproc.dir/all] Error 2  
make: *** [all] Error 2  
ashwin@ashwin-Satellite-C50D-A:~/opencv-2.4.9/build$ make  
[ 0%] Built target opencv_core_pch_dephelp  
[ 0%] Built target pch_Generate_opencv_core  
[ 0%] Built target opencv_core  
[ 0%] Built target opencv_ts_pch_dephelp  
[ 0%] Built target pch_Generate_opencv_ts  
[ 0%] Built target opencv_flann_pch_dephelp  
[ 0%] Built target pch_Generate_opencv_flann  
[ 0%] Built target opencv_flann  
[ 0%] Built target opencv_imgproc_pch_dephelp  
[ 0%] Built target pch_Generate_opencv_imgproc  
[ 3%] Built target opencv_imgproc  
[ 3%] Built target opencv_features2d_pch_dephelp  
[ 3%] Built target pch_Generate_opencv_features2d  
[ 3%] Built target opencv_highgui_pch_dephelp  
[ 3%] Built target pch_Generate_opencv_highgui  
[ 6%] Built target opencv_highgui  
[ 9%] Built target opencv_features2d  
[ 9%] Built target opencv_ts  
[ 9%] Built target opencv_perf_core_pch_dephelp  
[ 12%] Built target pch_Generate_opencv_perf_core  
[ 16%] Built target opencv_perf_core  
[ 16%] Built target opencv_test_core_pch_dephelp  
[ 16%] Built target pch_Generate_opencv_test_core  
[ 16%] Built target opencv_test_core  
[ 16%] Built target opencv_test_flann_pch_dephelp
```

```
[ 16%] Built target pch_Generate_opencv_test_flann
[ 16%] Built target opencv_test_flann
[ 16%] Built target opencv_perf_imgproc_pch_dephelp
[ 16%] Built target pch_Generate_opencv_perf_imgproc
Linking CXX executable ../../bin/opencv_perf_imgproc
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFIsTiled@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to `TIFFOpen@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFReadEncodedStrip@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFSetField@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFWriteScanline@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFGetField@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFScanlineSize@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFSetWarningHandler@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFSetErrorHandler@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFReadEncodedTile@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFReadRGBATile@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to `TIFFClose@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFRGBAIImageOK@LIBTIFF_4.0'
../../lib/libopencv_highgui.so.2.4.9: undefined reference to
`TIFFReadRGBAStrip@LIBTIFF_4.0'
collect2: error: ld returned 1 exit status
make[2]: *** [bin/opencv_perf_imgproc] Error 1
make[1]: *** [modules/imgproc/CMakeFiles/opencv_perf_imgproc.dir/all] Error 2
make: *** [all] Error 2
```

when I tried to install 3.0.0 I dint have this problem but I could not execute any examples

November 8, 2015, 8:13 am



247. Cindy says

Very good and helpful. Thanks a lot for the sharing!

November 20, 2015, 4:31 am



248. Andres says

All went well, thanks very much, now i can start playing with opencv, great job Sebastian!!

December 29, 2015, [10:58 am](#)



249. *samontab* says

You're welcome Andres. Happy new year!

December 30, 2015, [12:57 am](#)



250. *Andres* says

Happy New Year 2016!!

December 29, 2015, [10:59 am](#)



251. *Shamz* says

hey sebastian. Great guide for installing opencv. Thank you for your instructions. I would be grateful if you could clarify 1 doubt of mine. I wanted to know if I could use the same guide to install opencv on my BeagleBone Black. It runs ubuntu 14.04LTS. Thanks again

January 2, 2016, [5:00 pm](#)



252. *Luiz Mello* says

Hi, thank you for this tutorial!
I just test this on Ubuntu 15.10 and works great.
I only need to change this lib:
"libtiff4-dev" update to "libtiff5-dev"

January 3, 2016, [10:48 pm](#)



253. *samontab* says

Thanks Luiz,

Good to know that it works in 15.10 as well.

January 3, 2016, [10:49 pm](#)



254. *vasista* says

```
make[2]: *** No rule to make target `/usr/lib/libz.so', needed by
`lib/libopencv_core.so.2.4.9'. Stop.
make[1]: *** [modules/core/CMakeFiles/opencv_core.dir/all] Error 2
make: *** [all] Error 2
```

January 4, 2016, 5:05 am

255.  samontab says

vasista, it seems that you don't have libz installed. Maybe you missed a step, or are using a different version of the OS or OpenCV.

January 4, 2016, 5:18 am

Continuing the Discussion

1. [Installing OpenCV 2.4.1 in Ubuntu 12.04 LTS - Sebastian Montabone](#) linked to this post on June 24, 2014

[...] EDIT: I published a new guide using Ubuntu 14.04LTS and OpenCV 2.4.9 here. [...]

2. [Instalando OpenCV 2.4.9 em Linux | OpenCVBR](#) linked to this post on October 18, 2014

[...] <http://www.samontab.com/web/2014/06/installing-opencv-2-4-9-in-ubuntu-14-04-lts/> [...]

3. [Install OpenCV with QT | XI](#) linked to this post on November 10, 2014

[...] Here is a very good instruction for installing OpenCV 2.4.9. One thing to be aware is the options of setting cmake. In the post, QT is set ON by command -D WITH_QT=ON. Whereas, the version of this QT is 4.x, but newest QT library is 5.2. With the QT option on, when compiling OpenCV program in QT Creator, the program will crash with errors like realloc(): invalid pointer. Hence, make sure to set WITH_QT=OFF. [...]

4. [\[OpenCV\] Setup OpenCV trên Ubuntu | \(%\)](#) linked to this post on November 20, 2014

[...] <http://www.samontab.com/web/2014/06/installing-opencv-2-4-9-in-ubuntu-14-04-lts/> [...]

5. [How to compile OpenCV 2.4.10 on Ubuntu 14.04 and 14.10 - danwin.com](#) linked to this post on December 11, 2014

[...] Sebastian Montabone's writeup [...]

6. [Opencv and Qt integration - Celal SAVUR](#) linked to this post on February 2, 2015

[...] Here is a website that explain OpenCV installation well. And another website explains more about QT side. You may face two problem if you follow these two websites. [...]

7. [Install CUDA, OpenCV ...on ubuntu14.04 | 小茶馆-热点新闻即时更新，百姓生活畅所欲言](#) linked to this post on April 26, 2015

[...] <http://www.samontab.com/web/2014/06/installing-opencv-2-4-9-in-ubuntu-14-04-lts/> <http://rodrigoberriel.com/2014/10/installing-opencv-3-0-0-on-ubuntu-14-04/> [...]

8. [Opencv Installtion | Amritpal Singh](#) linked to this post on July 4, 2015

[...] <http://www.samontab.com/web/2014/06/installing-opencv-2-4-9-in-ubuntu-14-04-lts/> [...]

9. [【糾結】到底要不要用 OpenCV4Tegra ? ANS : NO...Not NOW | ROS On JETSON TK1](#) linked to this post on September 8, 2015

[...] Comparison : <1> <2> [...]

10. [The Chatter Box | E-Motion Robotics](#) linked to this post on September 21, 2015

[...] directory, yet it is up to the user to install opencv2.4.9 with a tutorial such as the one linked here. Next, we will dive into the actual code and how it is [...]

11. [Basics of Open computer vision with Python | opencvwithpythonwordpresscom](#) linked to this post on November 18, 2015

[...] <http://www.samontab.com/web/2014/06/installing-opencv-2-4-9-in-ubuntu-14-04-lts/> [...]

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About Sebastian Montabone



Sebastian Montabone is a computer engineer with a Master of Science degree in computer vision. He has worked in different areas such as intelligent IP cameras for automated surveillance, data mining, game development, and embedded devices. Currently he is a Senior Software Engineer at Ocular Robotics in Sydney, Australia.

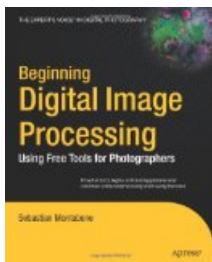
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