

Opencv installation on ubuntu linux

1. `sudo apt-get update`
2. `sudo apt-get install build-essential checkinstall cmake git pkg-config yasm libtiff5-dev libjpeg-dev libjasper-dev libavcodec-dev libavformat-dev libswscale-dev libdc1394-22-dev libxine2-dev libgstreamer0.10-dev libgstreamer-plugins-base0.10-dev libv4l-dev python-dev python-numpy libtbb-dev libgtk2.0-dev libfaac-dev libmp3lame-dev libopencore-amrnb-dev libopencore-amrwb-dev libtheora-dev libvorbis-dev libxvidcore-dev x264 v4l-utils libopenexr-dev python-tk libeigen3-dev libx264-dev`
3. `sudo add-apt-repository ppa:mc3man/gstffmpeg-keep`
4. `sudo apt-get update`
5. `sudo apt-get install ffmpeg gstreamer0.10-ffmpeg`
6. `mkdir opencv_src`
7. `cd opencv_src`
8. `git clone https://github.com/opencv/opencv.git`
9. `git clone https://github.com/opencv/opencv_contrib.git`
10. `cd opencv`
11. `mkdir build`
12. `cd build`
13. `cmake -D CMAKE_BUILD_TYPE=RELEASE -D CMAKE_INSTALL_PREFIX=/usr ₩ -D BUILD_NEW_PYTHON_SUPPORT=ON -D WITH_V4L=ON ₩ -D WITH_TBB=ON -D WITH_IPP=OFF ₩ -D OPENCV_EXTRA_MODULES_PATH=../..opencv_contrib/modules ../`
14. `make -j $(nproc)`
15. `sudo make install`

16. sudo ldconfig

17. pkg-config --modversion opencv

18. 아래 코드를 입력한다.

```
#include <opencv2/opencv.hpp>
using namespace cv;
using namespace std;
int main()
{
    Mat srcImage = imread("adf4159.jpg", IMREAD_GRAYSCALE);
    if( srcImage.empty() )
        return -1;

    imshow("srcImage", srcImage);
    waitKey();
    return 0;
}
```

19. g++ ~~~.cpp `pkg-config opencv --cflags --libs`

20. 결과를 확인한다.