

# opencv install

prereq: ubuntu 16:04 and...

```
sudo apt-get install -y build-essential cmake
# GUI (if you want to use GTK instead of Qt, replace 'qt5-default' with
'libgtkglext1-dev' and remove '-DWITH_QT=ON' option in CMake):
sudo apt-get install -y libvtk6-dev libgtkglext1-dev

# GUI qt
# sudo apt install -y qt5-default

# Media I/O:
sudo apt-get install -y zlib1g-dev libjpeg-dev libwebp-dev libpng-dev
libtiff5-dev libjasper-dev libopenexr-dev libgdal-dev

# Video I/O:
sudo apt-get install -y libdc1394-22-dev libavcodec-dev libavformat-dev
libswscale-dev libtheora-dev libvorbis-dev libxvidcore-dev libx264-dev yasm
libopencore-amrnb-dev libopencore-amrwb-dev libv4l-dev libxine2-dev

# Parallelism and linear algebra libraries:
sudo apt-get install -y libtbb-dev libeigen3-dev

# Python 2 & 3:
sudo apt-get install -y python-dev python-tk python-numpy python3-dev
python3-tk python3-numpy

# others
sudo apt-get install -y libopenexr-dev

# Java:
# sudo apt-get install -y ant default-jdk

# Documentation:
# sudo apt-get install -y doxygen
```

download sources

```
wget https://github.com/opencv/opencv/archive/3.4.1.zip
unzip 3.4.1.zip
rm 3.4.1.zip
mv opencv-3.4.1 OpenCV
cd OpenCV
```

compile

```
mkdir build
cd build
# cmake -DWITH_QT=ON -DWITH_OPENGL=ON -DFORCE_VTK=ON -DWITH_TBB=ON -
DWITH_GDAL=ON -DWITH_XINE=ON -DBUILD_EXAMPLES=ON ..
# cmake -DWITH_OPENGL=ON -DFORCE_VTK=ON -DWITH_TBB=ON -DWITH_GDAL=ON -
DWITH_XINE=ON -DENABLE_PRECOMPILED_HEADERS=OFF -DWITH_JASPER=OFF ..
# with openCL
cmake -DWITH_OPENGL=ON -DFORCE_VTK=ON -DWITH_TBB=ON -DWITH_GDAL=ON -
DWITH_XINE=ON -DENABLE_PRECOMPILED_HEADERS=OFF -DWITH_JASPER=OFF -
DWITH_OPENCV=ON ..

time make -j4
# 13:42 on flinx
# 5:02 on mostro
```

install

```
sudo make install
sudo ldconfig
```

From:  
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Permanent link:  
<https://wiki.csgalileo.org/tips/opencv/install?rev=1528528593>

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