

OpenCV 3.4.4

→Liste de commandes SHELL à lancer automatiquement sous `/home/ms` pour installer OpenCV 3.4.4 :

```
$ chmod +x install_opencv.sh  
$ ./install_opencv_3.4.4.sh
```

La suite s'exécute automatiquement en moins de 30 minutes :

1. KEEP UBUNTU & LINUX MINT UP TO DATE

```
sudo apt -y update  
sudo apt -y upgrade  
sudo apt -y dist-upgrade  
sudo apt -y autoremove
```

2. INSTALL THE DEPENDENCIES

Build tools:

```
sudo apt install -y build-essential cmake
```

GUI:

```
sudo apt install -y libgtk2.0-dev
```

Media I/O:

```
sudo apt install -y zlib1g-dev libjpeg-dev libwebp-dev  
libpng-dev libtiff5-dev libjasper-dev libopenexr-dev  
libgdal-dev
```

Video I/O:

```
sudo apt 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
```

Signal

```
sudo apt install -y libfftw3-dev
```

ImageMagick

```
sudo apt install -y imagemagick
```

Python 2 & 3:

```
sudo apt install -y python-dev python-numpy python-scipy  
python-matplotlib python-tk python-imageio python-pip
```

```
sudo apt install -y python3-dev python3-numpy python3-scipy  
python3-matplotlib python3-tk python3-imageio python3-pip
```

Java:

```
sudo apt install -y ant default-jdk
```

Documentation:

```
sudo apt install -y doxygen
```

3. INSTALL THE LIBRARY (YOU CAN CHANGE '3.4.4' FOR THE LAST STABLE VERSION)

```
sudo apt install -y unzip wget  
wget https://github.com/opencv/opencv/archive/3.4.4.zip  
unzip 3.4.4.zip  
rm 3.4.4.zip  
mv opencv-3.4.4 opencv  
wget  
https://github.com/opencv/opencv_contrib/archive/3.4.4.zip  
unzip 3.4.4.zip  
rm 3.4.4.zip  
mv opencv_contrib-3.4.4 opencv_contrib  
cd opencv  
mkdir build  
cd build  
# CUDA_GENERATION=Fermi|Kepler|Pascal|Volta  
cmake -DCMAKE_BUILD_TYPE=RELEASE -  
DCMAKE_INSTALL_PREFIX=/usr/local -DWITH_CUDA=ON -
```

```
DENABLE_FAST_MATH=1 -DCUDA_FAST_MATH=1 -DWITH_CUBLAS=1 -  
DCUDA_GENERATION=Pascal -  
DOPENCV_EXTRA_MODULES_PATH=~/.opencv_contrib/modules -  
DOPENCV_ENABLE_NONFREE=0N -DBUILD_EXAMPLES=0N -  
DBUILD_opencv_cudacodec=0FF ..  
make -j4  
sudo make install  
sudo ldconfig
```