

## To install Raspbian operating system using linux

<https://www.raspberrypi.org/documentation/installation/installing-images/linux.md>

## To install Raspbian operating system using Windows

<https://www.raspberrypi.org/documentation/installation/installing-images/windows.md>

**The latest version of opencv is recommended for installation. Follow the given steps to install opencv 3.x on Raspbian.**

1. `sudo apt-get purge wolfram-engine`
2. `sudo apt-get update`
3. `sudo apt-get upgrade`
4. `sudo apt-get install build-essential cmake pkg-config`
5. `sudo apt-get install libjpeg-dev libtiff5-dev libjasper-dev libpng12-dev`
6. `sudo apt-get install libavcodec-dev libavformat-dev libswscale-dev libv4l-dev`
7. `sudo apt-get install libxvidcore-dev libx264-dev`
8. `sudo apt-get install libgtk2.0-dev`
9. `sudo apt-get install libatlas-base-dev gfortran`
10. `sudo apt-get install python2.7-dev python3-dev`
11. `sudo python get-pip.py`
12. `cd ~/<my_working_directory>`
13. `git clone https://github.com/opencv/opencv.git`
14. `git clone https://github.com/opencv/opencv\_contrib.git`
15. `pip install numpy`
16. `cd ~/opencv`
17. `mkdir build`
18. `cd build`
19. `cmake -D CMAKE_BUILD_TYPE=RELEASE \`  
`-D CMAKE_INSTALL_PREFIX=/usr/local \`  
`-D INSTALL_PYTHON_EXAMPLES=ON \`  
`-D INSTALL_PYTHON_EXAMPLES=OFF \`  
`-D OPENCV_EXTRA_MODULES_PATH=~/opencv_contrib/modules \`  
`-D BUILD_EXAMPLES=ON ..`
20. `make -j4`
21. `sudo make install`
22. `sudo ldconfig`

**For more information :**

<http://www.pyimagesearch.com/2016/04/18/install-guide-raspberry-pi-3-raspbian-jessie-opencv-3/>

[http://docs.opencv.org/trunk/d7/d9f/tutorial\\_linux\\_install.html](http://docs.opencv.org/trunk/d7/d9f/tutorial_linux_install.html)