

POINT CLOUD LIBRARY ON UBUNTU 16.04 LTS AND 17.01

SETUP PREREQUISITES TOOLS:

- ① `sudo apt-get update`
- ② `sudo apt-get install git build-essential linux-libc-dev`
- ③ `sudo apt-get install cmake cmake-gui`
- ④ `sudo apt-get install libusb-1.0-0-dev libusb-dev libudev-dev`
- ⑤ `sudo apt-get install mpi-default-dev openmpi-bin openmpi-common`
- ⑥ For Ubuntu 16.04: `sudo apt-get install libflann1.8 libflann-dev`
For Ubuntu 17.01: `sudo apt-get install libflann1.9 libflann-dev`
- ⑦ `sudo apt-get install libeigen3-dev`
- ⑧ `sudo apt-get install libboost-all-dev`
- ⑨ For Ubuntu 16.04: `sudo apt-get install libvtk5.10-qt4 libvtk5.10 libvtk5-dev`
For Ubuntu 17.01: `sudo apt-get install libvtk6.3-qt4 libvtk6.3 libvtk6-dev`
- ⑩ `sudo apt-get install libqhull* libgtest-dev`
- ⑪ `sudo apt-get install freeglut3-dev pkg-config`
- ⑫ `sudo apt-get install libxmu-dev libxi-dev`
- ⑬ `sudo apt-get install mono-complete`

- ⑭ `sudo apt-get install qt-sdk openjdk-8-jdk openjdk-8-jre`

BUILD POINT CLOUD LIBRARY:

Point Cloud library is obtained by:

`git clone https://github.com/PointCloudLibrary/pcl.git`

After this, we can see pcl folder in your directory. Go into it and create release directory and follow the cmake build process:

- ① `cd pcl`
- ② `mkdir release`
- ③ `cd release`
- ④ `cmake ..`
- ⑤ `make`

The make will take lots of time. Just be patience and let it do its work. Once the build process finishes, install it by:

- ⑥ `sudo make install`

```
*****
*****
*****
```

