POINT CLOUD LIBRARY ON UBUNTU 16.04 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 Ubunut 17.01: sudo apt-get install libflann1.9 libflann-dev

1. sudo apt-get install libeigen3-dev
2. sudo apt-get install libboost-all-dev
3. For Ubuntu 16.04: sudo apt-get install libvtk5.10-qt4 libvtk5.10 libvtk5-dev

For Ubunut 17.01: sudo apt-get install libvtk6.3-qt4 libvtk6.3 libvtk6-dev

1. sudo apt-get install libqhull\* libgtest-dev
2. sudo apt-get install freeglut3-dev pkg-config
3. sudo apt-get install libxmu-dev libxi-dev
4. sudo apt-get install mono-complete
5. 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:

1. sudo make install

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*