

ROS2 Realsense 환경 구축

2021년 12월 14일 화요일 오후 1:38

ROS2 RealSense Setup

[Reference]

https://index.ros.org/r/realsense2_camera/

<1>

```
sudo apt-get install ros-foxy-realsense2-camera
```

<2> install latest realsense SDK 2.0

```
sudo apt-get update && sudo apt-get upgrade && sudo apt-get dist-upgrade
```

```
sudo update-grub && sudo reboot
```

```
git clone https://github.com/IntelRealSense/librealsense.git
```

maybe you get librealsense folder in the home

```
cd librealsense/
```

```
sudo apt-get install git libssl-dev libusb-1.0-0-dev libudev-dev pkg-config libgtk-3-dev
```

```
./scripts/setup_udev_rules.sh
```

```
./scripts/patch-realsense-ubuntu-lts.sh
```

```
mkdir build && cd build
```

```
cmake -DCMAKE_BUILD_TYPE=Release -DBUILD_EXAMPLES=true..
```

```
make -j2 #(or -jn if you have a n core)
```

```
sudo make install
```

<3> set the workspace

```
mkdir -p ~/ros2_ws/src
```

```
cd ~/ros2_ws/src/
```

```
git clone --depth 1 --branch `git ls-remote --tags https://github.com/IntelRealSense/realsense-ros.git | grep -Po "(?<=tags/)[0-9]+\.[0-9]+\.[0-9]+" | sort -V | tail -1` https://github.com/IntelRealSense/realsense-ros.git
```

```
cd ~/ros2_ws
```

```
sudo apt-get install python3-rosdep -y
```

```
sudo rosdep init # "sudo rosdep init --include-eol-distros" for Dashing
```

```
rosdep update
```

```
rosdep install -i --from-path src --rosdistro foxy --skip-keys=librealsense2 -y
```

```
colcon build
```

```
. install/local_setup.bash
```

<4> check your ros2 realsense node

```
ros2 launch realsense2_camera rs_launch.py
```

```
## if you have problem with ros2 launch ~, source /opt/ros/foxy/setup.bash && source
```

```
~/robot_ws/install/local_setup.bash  
## or you can add that code in ~/.bashrc
```

```
ros2 launch realsense2_camera demo_pointcloud_launch.py  
## rrv2 pointcloud
```