

Setting up Virtual Environments

Conda Installation

1. Installing Anaconda on Ubuntu

- Download Anaconda from <https://www.anaconda.com/download>
- Python 3.8.x version installer is recommended.
- You can also use

```
$ wget https://repo.anaconda.com/archive/Anaconda3-2021.05-Linux-x86_64.sh
```

on the command line.

2. Run downloaded bash script file

```
$ bash Anaconda3-2021.05-Linux-x86_64.sh
```

or execute a downloaded bash file.

- Press Enter until prompted "Plead answer 'yes' or 'no'."
- Enter yes and install Anaconda on the desired location.
(Be sure not to include Korean in the whole directory.)

(recommended) If prompted

```
$ Do you wish the installer to initialize Anaconda3 by running conda init? [yes|no]
>>
```

enter yes. Otherwise, you have to write a conda environment path to ~/.bashrc file.

3. Source bash file

```
$ source ~/.bashrc
$ conda --version
```

Use conda --version to check installation.

4. Initialize conda environment

```
$ conda create -n py27 python=2.7
```

You can replace `py27` with your environment name if needed. If you wish to install other versions of Python, change to `python=[PYTHON_VERSION]`. For now, we will install python 2.7.

```
$ conda activate py27
```

Activate your virtual environment with command 'conda activate [env_name]'. **Make sure the conda virtual environment (py27) is activated at each terminal (for installing packages, starting roscore, launching roslaunch, running rosrn, ...)**

5. Install requirements

```
(py27)$ pip install gym  
(py27)$ pip install pynput==1.6.0
```

If `catkin_make` causes an error, additionally install `rospkg` on the conda environment.

```
(py27)$ pip install rospkg
```