OpenRAVE

From CRIwiki

For the official documentation of OpenRAVE, please refer to http://openrave.org .

An `openrave` folder is to be put in `~/git/` directory. First, go to your git directory by using a command `cd` as

```
$ cd git
```

Then, you have to get a copy of OpenRAVE in our local by typing in a terminal the following

```
$ git clone --branch master https://github.com/rdiankov/openrave.git
```

Next, install OpenRAVE dependencies by the following

```
$ sudo add-apt-repository ppa:openrave/release
$ sudo sh -c 'echo "deb-src http://ppa.launchpad.net/openrave/release/ubuntu `lsb_release -cs` main" >> /etc/apt/sources.list.d/openrave-release-`lsb_release -cs`.list'
$ sudo apt-get update
$ sudo apt-get build-dep openrave
```

You also need to install python, python numpy, ipython , etc. by

```
$ sudo apt-get install libboost-python-dev python python-dev python-numpy ipython
```

And also install `libpcre++-dev` package (regular expression for c++ library)

```
$ sudo apt-get install libpcre++-dev
```

After all required packages are installed, go to your openrave folder compile and install:

```
$ cd openrave
$ make
$ sudo make install
```

Finally, you can check you OpenRAVE installation by running a simple OpenRAVE example using a command

```
$ openrave.py --example hanoi
```

If your installation is successful, an OpenRAVE window will pop up showing a manipulator playing Hanoi tower.

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