Notes

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Let's create and build a catkin workspace:

```
mkdir -p ~/catkin_ws/src
cd ~/catkin_ws/
catkin_make
```

The catkin_make command is a convenience tool for working with catkin workspaces. Running it the first time in your workspace, it will create a CMakeLists.txt link in your 'src' folder. Additionally, if you look in your current directory you should now have a 'build' and 'devel' folder. Inside the 'devel' folder you can see that there are now several setup.*sh files. Sourcing any of these files will overlay this workspace on top of your environment. To understand more about this see the general catkin documentation: catkin. Before continuing source your new setup.*sh file:

```
source devel/setup.bash
```

To make sure your workspace is properly overlayed by the setup script, make sure ROS_PACKAGE_PATH environment variable includes the directory you're in.

```
1 echo \$ROS\_PACKAGE\_PATH
  // /home/youruser/catkin_ws/src:/opt/ros/kinetic/share
```

5. ROS Industrial

6. ROS MoveIt

Bibliography