

3. Creating a catkin Package

This tutorial will demonstrate how to use the `catkin_create_pkg` script to create a new catkin package, and what you can do with it after it has been created.

First change to the source space directory of the catkin workspace you created in the [Creating a Workspace for catkin tutorial](#):

```
# You should have created this in the Creating a Workspace Tutorial
$ cd ~/catkin_ws/src
```

Now use the `catkin_create_pkg` script to create a new package called 'beginner_tutorials' which depends on `std_msgs`, `roscpp`, and `rospy`:

```
$ catkin_create_pkg beginner_tutorials std_msgs rospy roscpp
```

This will create a `beginner_tutorials` folder which contains a `package.xml` and a `CMakeLists.txt`, which have been partially filled out with the information you gave `catkin_create_pkg`.

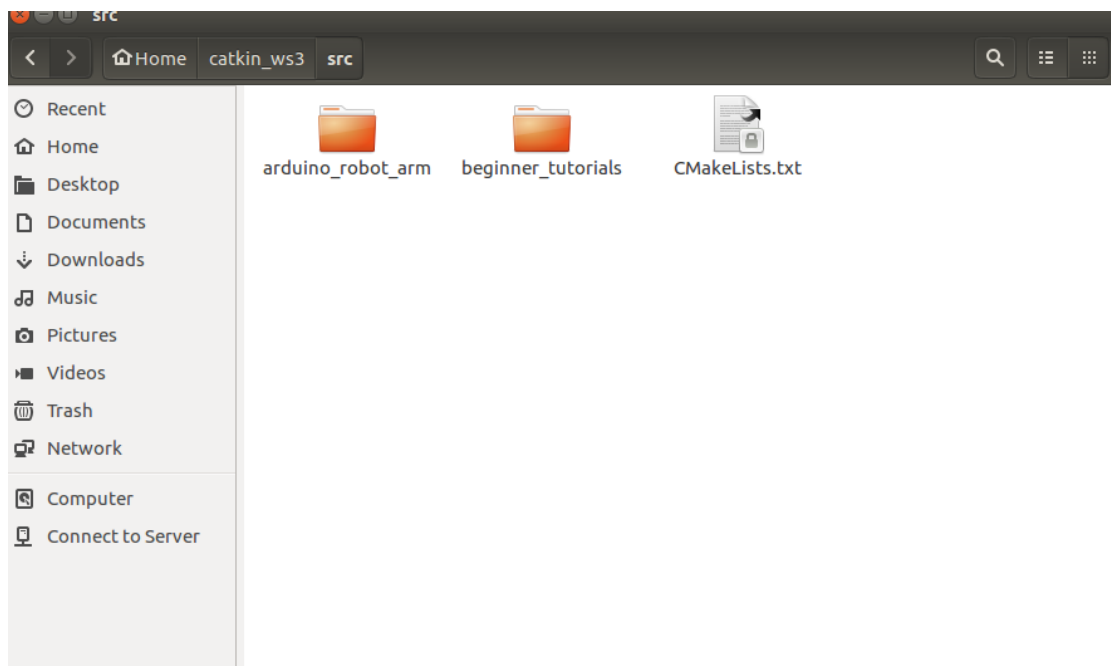
`catkin_create_pkg` requires that you give it a `package_name` and optionally a list of dependencies on which that package depends:

```
# This is an example, do not try to run this
# catkin_create_pkg <package_name> [depend1] [depend2] [depend3]
```

`catkin_create_pkg` also has more advanced functionalities which are described in [catkin/commands/catkin_create_pkg](#).

Link to create arm package:

<http://wiki.ros.org/ROS/Tutorials/CreatingPackage>



https://github.com/smart-methods/arduino_robot_arm

Movit

http://docs.ros.org/en/kinetic/api/moveit_tutorials/html/doc/setup_assistant/setup_assistant_tutorial.html

