

# Robot Operating System CheatSheet

## ALWAYS DO THIS FIRST

```
cd ~/ros_workspace  
source ~/ros_workspace/devel/setup.bash
```

## Navigating Your Package/Workspace

```
cd ~/ros_workspace/src
```

## Building the package in your workspace (nodes go in here)

```
cd ~/ros_workspace/src  
catkin_create_pkg PACKNAME std_msgs rospy  
cd ~/ros_workspace/  
catkin_make  
source ~/ros_workspace/devel/setup.bash
```

## Building py file as executable

```
(cd to your scripts file)  
sudo chmod +x file.py  
password: turtlebot
```

## Running your node

```
In another tab: roscore  
In main tab: rosrun nodename node.py
```

## Connecting to a Robot

```
(Connect to turtlebot wifi)  
tcu *robot_name*  
roslaunch turtlebot3_teleop turtlebot3_teleop_key.launch
```

## Running bag file

```
rosbag play bagname.bag
```