**Creating Floating box (box without any force acting on it)**

* **roslaunch plugin\_test box\_gazebo.launch**
* **Files required:**
* **box\_gazebo\_11.launch**
* **floating\_box\_11.gazebo**

1. Moving box by applying force

* **rostopic pub -r 10 /topic\_name geometry\_msgs/Wrench "force:**

**x: 0.0**

**y: 0.0**

**z: 0.0**

**torque:**

**x: 0.0**

**y: 0.0**

**z: 0.0"**

1. Moving box to given point by applying force.

* **roslaunch plugin\_test box\_gazebo.launch**
* **cd ~/catkin\_ws/src/plugin\_test/src**
* **python force\_controller\_XY.py**

1. Moving box to given point by applying force and by controlling force and speed parameters

* **roslaunch plugin\_test box\_gazebo\_11.launch**
* **cd ~/catkin\_ws/src/plugin\_test/src**
* **python force\_controller\_construct1\_xy.py**

1. Moving box along waypoints

* **roslaunch plugin\_test box\_gazebo.launch**
* **cd ~/catkin\_ws/src/plugin\_test/src**
* **python waypoints\_30.py**

