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Launch Gazebo turtlebot.world and keyboard_teleop

harman@D104-45931:~\$ roslaunch turtlebot_gazebo turtlebot_world.launch

process has finished cleanly View Gazebo GUI

harman@D104-45931:~\$ roslaunch turtlebot_teleop keyboard_teleop.launch ... logging to /home/harman/.ros/log/d2f268d2-9419-11eb-866e-9cb6d00f6f89/roslaunch-D104-45931-5811.log Checking log directory for disk usage. This may take awhile. Press Ctrl-C to interrupt Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://D104-45931:36828/

SUMMARY

PARAMETERS

- * /rosdistro: kinetic
- * /rosversion: 1.12.16
- * /turtlebot_teleop_keyboard/scale_angular: 1.5
- * /turtlebot_teleop_keyboard/scale_linear: 0.5

NODES

/

turtlebot_teleop_keyboard (turtlebot_teleop/turtlebot_teleop_key)

ROS_MASTER_URI=http://localhost:11311

process[turtlebot_teleop_keyboard-1]: started with pid [5828]

Control Your Turtlebot!

Moving around: u i o j k l m , .

q/z : increase/decrease max speeds by 10% w/x : increase/decrease only linear speed by 10% e/c : increase/decrease only angular speed by 10% space key, k : force stop anything else : stop smoothly

CTRL-C to quit

currently: speed 0.2 turn 1

roslaunch turtlebot_rviz_launchers view_robot.launch

harman@D104-45931:~\$ roslaunch turtlebot_rviz_launchers view_robot.launch ... logging to /home/harman/.ros/log/d2f268d2-9419-11eb-866e-9cb6d00f6f89/roslaunch-D104-45931-6115.log Checking log directory for disk usage. This may take awhile. Press Ctrl-C to interrupt Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://D104-45931:40556/

SUMMARY

PARAMETERS * /rosdistro: kinetic * /rosversion: 1.12.16

NODES

/

rviz (rviz/rviz)

ROS_MASTER_URI=http://localhost:11311

process[rviz-1]: started with pid [6132]

RVIZ Robot Visualization (Text Pages 117, 165-169)



SELECT OPTIONS ON 'DISPLAYS'

a. GlobalOptions> Change Fixed Frame > ODOM
Laser Scan Topic (Open Dropdown = /scan)
b. ADD DISPLAY TYPES: ADD Robot Model (If not selected), ADD Axes (Change reference frame = base_footprint), ADD Point Cloud > Camera/depth/points.

Move the TurtleBot with keys (I , l j and q/z w/x e/c) . The scan will show the objects in the Gazebo image

To Save Rviz - File save config as <name>.rviz (IN HOME .rviz)



Red arrow is x-axis. TurtleBot is facing the white cube in Rviz and Gazebo.

Turtlebot's x axis is pointing toward cube. Scan sees cube and bookcase.

