Cheatography

ROS Indigo Cheat Sheet

by rckoala via cheatography.com/77280/cs/18963/

Workspacej

make workspace	mkdir -p ~/ros/indigo/catkin_ws
	cd ~/ros/indigo/catkin_ws/
	catkin_make
add to source	echo "$PWD/devel/setup.bash" >> ~/.bashrc

Environment

Display	printenv | grep ROS
Turtlebot	ROS_MASTER_URI=http://localhost:11311
	ROS_HOSTNAME=<TURTLEBOT_IP>
Workstation	ROS_MASTER_URI=http://<TURTLEBOT_IP>:11311
	ROS_HOSTNAME=<PC_IP>

Packages

list	rospack list
list dependencies	rospack depends <pgk>
cd pkg dir	roscd <pkg>
rosmsg	[list | show]

Rosbags and topic

rosbag	[info | play -l]
	record [-a | <pkg> <pkg>] -O filename [--clock]
rosnode	[list | info | ping | kill]
rostopic	[list | info | echo | pub]
for gui	rqt_bag <pkg> | rqt_graph
rosparam set <param> true	enable_statistics | use_sim_time

Turtlebot2

Turtlebot	roslaunch turtlebot_bringup minimal.launch
make it move	rostopic pub -r 10 /mobile_base/commands/velocity geometry_msgs/Twist '{linear: {x: 0.0, y: 0.0, z: 0.0}, angular: {x: 0.0, y: 0.0, z: -0.7}}'
env	TURTLEBOT_3D_SENSOR=kinect
tutorials	http://wiki.ros.org/Robots/TurtleBot?distro=indigo

visualisation rvis 5.1.3 kinect Teleoperation 5.2.[1-2-4] keyboard joystick rviz_interactive mapping 5.3

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