ROS COMMANDS

1.rosrun rqt_graph rqt_graph



2.rosnode list

```
rulshid@rulshid-Inspiron-N4050:~$ rosnode list
//rosout
//rot_gui_py_node_10733
//rviz_1528141661188941743
/stream_publisher_10618_1528141758912
rulshid@rulshid-Inspiron-N4050:~$
```

3.rosnode info /stream_publisher_10618_1528141758912

4.rostopic list

```
rulshid@rulshid-Inspiron-N4050:-$ rostopic list
/clicked_point
/frames
/initialpose
/inove_base_simple/goal
/rosout
/rosout_agg
/statistics
/tf
/tf_static
rulshid@rulshid-Inspiron-N4050:-$
```

5.rostopic info

```
rulshid@rulshid-Inspiron-N4050:~$ rostopic info /frames
Type: sensor_msgs/Image

Publishers:

* * /stream_publisher_10618_1528141758912 (http://rulshid-Inspiron-N4050:39825/)

Subscribers:

* /rviz_1528141661188941743 (http://rulshid-Inspiron-N4050:40445/)

rulshid@rulshid-Inspiron-N4050:~$
```

6.rosmsg list

rulshid@rulshid-Inspiron-N4050:~\$ rosmsg list actionlib/TestAction actionlib/TestActionFeedback actionlib/TestActionGoal actionlib/TestActionResult actionlib/TestFeedback actionlib/TestGoal actionlib/TestRequestAction actionlib/TestRequestActionFeedback actionlib/TestRequestActionGoal actionlib/TestRequestActionResult actionlib/TestRequestFeedback actionlib/TestRequestGoal actionlib/TestRequestResult actionlib/TestResult actionlib/TwoIntsAction actionlib/TwoIntsActionFeedback actionlib/TwoIntsActionGoal actionlib/TwoIntsActionResult actionlib/TwoIntsFeedback actionlib/TwoIntsGoal actionlib/TwoIntsResult actionlib_msgs/GoalID actionlib_msgs/GoalStatus

```
actionlib msgs/GoalStatusArray
actionlib tutorials/AveragingAction
actionlib_tutorials/AveragingActionFeedback
actionlib tutorials/AveragingActionGoal
actionlib tutorials/AveragingActionResult
actionlib_tutorials/AveragingFeedback
actionlib_tutorials/AveragingGoal
actionlib tutorials/AveragingResult
actionlib tutorials/FibonacciAction
actionlib tutorials/FibonacciActionFeedback
actionlib_tutorials/FibonacciActionGoal
actionlib tutorials/FibonacciActionResult
actionlib tutorials/FibonacciFeedback
actionlib tutorials/FibonacciGoal
actionlib tutorials/FibonacciResult
bond/Constants
bond/Status
control_msgs/FollowJointTrajectoryAction
control msgs/FollowJointTrajectoryActionFeedback
control_msgs/FollowJointTrajectoryActionGoal
control_msgs/FollowJointTrajectoryActionResult
control msgs/FollowJointTrajectoryFeedback
control msgs/FollowJointTrajectoryGoal
control msgs/FollowJointTrajectoryResult
control_msgs/GripperCommand
control_msgs/GripperCommandAction
control msgs/GripperCommandActionFeedback
control_msgs/GripperCommandActionGoal
control_msgs/GripperCommandActionResult
control_msgs/GripperCommandFeedback
control_msgs/GripperCommandGoal
control_msgs/GripperCommandResult
control_msgs/JointControllerState
control_msgs/JointTolerance
control msgs/JointTrajectoryAction
control msgs/JointTrajectoryActionFeedback
control msgs/JointTrajectoryActionGoal
control msgs/JointTrajectoryActionResult
control msgs/JointTrajectoryControllerState
control_msgs/JointTrajectoryFeedback
control msgs/JointTrajectoryGoal
control msgs/JointTrajectoryResult
control_msgs/PidState
control msgs/PointHeadAction
control_msgs/PointHeadActionFeedback
control msgs/PointHeadActionGoal
control msgs/PointHeadActionResult
control_msgs/PointHeadFeedback
control_msgs/PointHeadGoal
control msgs/PointHeadResult
control msgs/SingleJointPositionAction
control_msgs/SingleJointPositionActionFeedback
```

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control msgs/SingleJointPositionActionGoal
control msgs/SingleJointPositionActionResult
control_msgs/SingleJointPositionFeedback
control msgs/SingleJointPositionGoal
control msgs/SingleJointPositionResult
diagnostic_msgs/DiagnosticArray
diagnostic_msgs/DiagnosticStatus
diagnostic_msgs/KeyValue
dynamic reconfigure/BoolParameter
dynamic_reconfigure/Config
dynamic_reconfigure/ConfigDescription
dynamic reconfigure/DoubleParameter
dynamic_reconfigure/Group
dynamic reconfigure/GroupState
dynamic_reconfigure/IntParameter
dynamic_reconfigure/ParamDescription
dynamic reconfigure/SensorLevels
dynamic_reconfigure/StrParameter
gazebo msgs/ContactState
gazebo_msgs/ContactsState
gazebo_msgs/LinkState
gazebo_msgs/LinkStates
gazebo_msgs/ModelState
gazebo msgs/ModelStates
gazebo_msgs/ODEJointProperties
gazebo_msgs/ODEPhysics
gazebo msgs/WorldState
geometry_msgs/Accel
geometry_msgs/AccelStamped
geometry_msgs/AccelWithCovariance
geometry_msgs/AccelWithCovarianceStamped
geometry_msgs/Inertia
geometry_msgs/InertiaStamped
geometry_msgs/Point
geometry_msgs/Point32
geometry_msgs/PointStamped
geometry_msgs/Polygon
geometry_msgs/PolygonStamped
geometry msgs/Pose
geometry_msgs/Pose2D
geometry_msgs/PoseArray
geometry_msgs/PoseStamped
geometry_msgs/PoseWithCovariance
geometry_msgs/PoseWithCovarianceStamped
geometry_msgs/Quaternion
geometry msgs/QuaternionStamped
geometry_msgs/Transform
geometry_msgs/TransformStamped
geometry_msgs/Twist
geometry_msgs/TwistStamped
geometry msgs/TwistWithCovariance
geometry_msgs/TwistWithCovarianceStamped
```

geometry_msgs/Vector3

geometry_msgs/Vector3Stamped

geometry_msgs/Wrench

 $geometry_msgs/WrenchStamped$

map_msgs/OccupancyGridUpdate

map_msgs/PointCloud2Update

map_msgs/ProjectedMap

map_msgs/ProjectedMapInfo

nav_msgs/GetMapAction

nav_msgs/GetMapActionFeedback

nav_msgs/GetMapActionGoal

nav msgs/GetMapActionResult

nav msgs/GetMapFeedback

nav_msgs/GetMapGoal

nav_msgs/GetMapResult

nav_msgs/GridCells

nav_msgs/MapMetaData

nav_msgs/OccupancyGrid

nav_msgs/Odometry

nav_msgs/Path

pcl_msgs/ModelCoefficients

pcl_msgs/PointIndices

pcl_msgs/PolygonMesh

pcl_msgs/Vertices

roscpp/Logger

rosgraph_msgs/Clock

rosgraph_msgs/Log

rosgraph_msgs/TopicStatistics

rospy_tutorials/Floats

rospy_tutorials/HeaderString

sensor_msgs/BatteryState

sensor_msgs/CameraInfo

sensor_msgs/ChannelFloat32

sensor_msgs/CompressedImage

sensor msgs/FluidPressure

sensor_msgs/Illuminance

sensor_msgs/Image

sensor_msgs/Imu

sensor msgs/JointState

sensor_msgs/Joy

sensor_msgs/JoyFeedback

sensor msgs/JoyFeedbackArray

sensor_msgs/LaserEcho

sensor_msgs/LaserScan

sensor_msgs/MagneticField

sensor msgs/MultiDOFJointState

sensor msgs/MultiEchoLaserScan

sensor_msgs/NavSatFix

sensor_msgs/NavSatStatus

sensor msgs/PointCloud

sensor msgs/PointCloud2

sensor_msgs/PointField

```
sensor_msgs/Range
```

sensor msgs/RegionOfInterest

sensor_msgs/RelativeHumidity

sensor_msgs/Temperature

sensor_msgs/TimeReference

shape_msgs/Mesh

shape_msgs/MeshTriangle

shape_msgs/Plane

shape_msgs/SolidPrimitive

smach_msgs/SmachContainerInitialStatusCmd

smach_msgs/SmachContainerStatus

smach msgs/SmachContainerStructure

std_msgs/Bool

std_msgs/Byte

std_msgs/ByteMultiArray

std_msgs/Char

std_msgs/ColorRGBA

std_msgs/Duration

std_msgs/Empty

std_msgs/Float32

std_msgs/Float32MultiArray

std_msgs/Float64

std_msgs/Float64MultiArray

std_msgs/Header

std_msgs/Int16

std_msgs/Int16MultiArray

std_msgs/Int32

std_msgs/Int32MultiArray

std_msgs/Int64

std_msgs/Int64MultiArray

std_msgs/Int8

std_msgs/Int8MultiArray

std_msgs/MultiArrayDimension

std_msgs/MultiArrayLayout

std_msgs/String

std msgs/Time

std_msgs/UInt16

std_msgs/UInt16MultiArray

std msgs/UInt32

std_msgs/UInt32MultiArray

std msgs/UInt64

std_msgs/UInt64MultiArray

std_msgs/UInt8

std_msgs/UInt8MultiArray

stereo_msgs/DisparityImage

tf/tfMessage

tf2 msgs/LookupTransformAction

tf2_msgs/LookupTransformActionFeedback

tf2 msgs/LookupTransformActionGoal

tf2 msgs/LookupTransformActionResult

tf2 msgs/LookupTransformFeedback

tf2_msgs/LookupTransformGoal

tf2_msgs/LookupTransformResult tf2 msgs/TF2Error tf2_msgs/TFMessage theora image transport/Packet trajectory_msgs/JointTrajectory trajectory_msgs/JointTrajectoryPoint trajectory_msgs/MultiDOFJointTrajectory trajectory_msgs/MultiDOFJointTrajectoryPoint turtle actionlib/ShapeAction turtle_actionlib/ShapeActionFeedback turtle_actionlib/ShapeActionGoal turtle actionlib/ShapeActionResult turtle_actionlib/ShapeFeedback turtle actionlib/ShapeGoal turtle_actionlib/ShapeResult turtle_actionlib/Velocity turtlesim/Color turtlesim/Pose visualization_msgs/ImageMarker visualization_msgs/InteractiveMarker visualization_msgs/InteractiveMarkerControl visualization_msgs/InteractiveMarkerFeedback visualization_msgs/InteractiveMarkerInit visualization_msgs/InteractiveMarkerPose visualization_msgs/InteractiveMarkerUpdate visualization_msgs/Marker visualization msgs/MarkerArray visualization_msgs/MenuEntry

8.rosmsg info

```
visualization_msgs/MenuEntry
rulshid@rulshid-Inspiron-N4050:~$ rosmsg info sensor_msgs/Image
std msgs/Header header
uint32 seq
time stamp
string frame_id
uint32 height
vint32 width
string encoding
uint81 s bigendian
uint32 siep
uint82 s bigendian
uint32 siep
uint81 s data
rulshid@rulshid-Inspiron-N4050:-$
```

9.rosnode machine

rulshid@rulshid-Inspiron-N4050:~\$ rosnode machine rulshid-inspiron-n4050 rulshid@rulshid-Inspiron-N4050:~\$