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For example, if you are using a message in your code, you can type `rosmmsg show` at the command-line to look up its fields:

You can pass this to `rosmq` to quickly see the fields of the message:

```
rostopic type rosout | rosmmsg show
byte DEBUG=1
byte INFO=2
byte WARN=4
byte ERROR=8
byte FATAL=16
Header header
  uint32 seq
  time stamp
  string frame_id
byte level
string name
string msg
string file
string function
uint32 line
string[] topics
```

Once you know more about the fields of a particular message, you can then listen them at the command-line, e.g.

```
$ rostopic echo rosout/msg
```

2. Command-Line Tools

2.1 rosmmsg

The rosmmsg command-line tool displays information about ROS [Message types](#). The following sections describe the commands that are available.

2.1.1 rosmmsg show

show <message type>

Display the fields in a ROS message type. You may omit the package name of the type, in which case rosmmsg will search for matching types in all packages. Example:

```
$ rosmmsg show std_msgs/String
```

or, if you don't know the package name:

```
$ rosmmsg show Pose
```

You can use [rosmmsg](#) in combination with [rostopic](#) to display the type information about a [topic](#):

```
$ rostopic type /topic_name | rosmmsg show
```

-r

Display the raw [msg](#) definition.

```
$ rosmmsg show -r robot_msgs/Quaternion
# xyz - vector rotation axis, w - scalar term (cos(ang/2))
float64 x
float64 y
float64 z
float64 w
```

-b BAGFILE

Show message as defined in BAGFILE.

2.1.2 rosmmsg list

New in Fuerte

list

Display a list of all messages. This command does not take in any additional arguments. This command is mainly for use by experts who wish to perform operations on packages with .msg files.

```
$ rosmmsg list
nav_msgs/GridCells
nav_msgs/MapMetaData
nav_msgs/OccupancyGrid
nav_msgs/Odometry
nav_msgs/Path
...
```

Note that messages in a subfolder may not be listed as of March 2017 ([open ticket](#)).

2.1.3 rosmmsg package

package <package-name>

Display a list of all messages in a package.

```
$ rosmmsg package nav_msgs
nav_msgs/OccupancyGrid
nav_msgs/Path
nav_msgs/MapMetaData
```

```
nav_msgs/Odometry
nav_msgs/GridCells
```

-s

Display all messages on a single line. Useful for backtick invocations.

2.1.4 rosmmsg packages

packages

Display a list of all packages with messages. This command does not take in any additional arguments. This command is mainly for use by experts who wish to perform operations on packages with .msg files.

```
$ rosmmsg packages
std_msgs
roscpp
roslib
...
```

-s

Display all packages on a single line. Useful for backtick invocations.

2.1.5 rosmmsg users

Only available in ROS Electric and earlier

users <message type>

Search for code files that use the message type. This is useful when renaming message types. This command may take a long time, depending on the size of your code base.

NOTE: As ROS supports many different coding languages, rosmmsg users is not guaranteed to find every file that uses the message type and should only be used as a supplementary tool.

```
$ rosmmsg users sensor_msgs/CameraInfo
Files using sensor_msgs/CameraInfo:
Usages directly depended upon:sensor_msgs/CameraInfo
/home/user/ros-pkg/pr2_simulator/pr2_gazebo_plugins/include/pr2_gazebo_plugins/gazebo_ros_prosilica.h
...
```

2.1.6 rosmmsg md5

NOTE: The md5 command is meant for expert users only.

md5 <message type>

Display the md5 sum of a message. This will also warn if the compiled version doesn't match.

2.2 rossrv

The rossrv command-line tool displays information about ROS services. It has the exact same usage as rosmmsg (see what it offers when it runs without sub-command below):

```
$ rossrv
rossrv is a command-line tool for displaying information about ROS Service types.

Commands:
  rossrv show    Show service description
  rossrv list    List all services
  rossrv md5     Display service md5sum
  rossrv package List services in a package
  rossrv packages List packages that contain services

Type rossrv <command> -h for more detailed usage
```

2.3 Syntax highlighting

-  Sublime Text 3

3. Roadmap

rosmmsg and rossrv are stable tools. There is currently no plan to add new features to them.

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