

Logging

We use the ROS logging API for having programs produce output. See [The official documentation for more details](#).

There are 5 logging levels (ordered in increasing severity)

- DEBUG
- INFO
- WARNING
- ERROR
- FATAL

Here are some [general guidelines](#) for when to use each level. If you use the FATAL message, your node should use a call to `exit(nonzero value)` very soon (if not immediately) after publishing the message.

Setting the Log Level

By default, only severity $\geq$ INFO is logged and displayed. There are several ways of changing the log level of a particular node, or all nodes.

For a Single Node

Use the `roscconsole` command from the command line. Note this can only be applied to a currently running node, so it isn't very useful if you have debug messages in the startup of your node that you want to see.

For all Nodes

Modify your `.bashrc` file and add the following line:

```
export ROSCONSOLE_CONFIG_FILE="$HOME/.roscconsole.config"
```

Then run:

```
echo "log4j.logger.ros=DEBUG" > ~/.roscconsole.config
```

You can replace DEBUG with another log level.

This is useful if you want to see debugging messages for all the nodes.

Programatically

Yes, you can make a node set its log level by itself! Check out this [example](#).

From:

<https://robosub.eecs.wsu.edu/wiki/> - **Palouse RoboSub Technical Documentation**

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<https://robosub.eecs.wsu.edu/wiki/cs/logging/start>



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