

# 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

## 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 rosconsole 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/.rosconsole.config"
```

Then run:

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

You can replace DEBUG with another log level.

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

### Programmatically

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

From:

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

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<http://robosub-old.eecs.wsu.edu/wiki/cs/logging/start?rev=1481823502>

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