## 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 >= 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.

## 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

Permanent link:
https://robosub.eecs.wsu.edu/wiki/cs/logging/start


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