
logthing

Release 1.0.0

unknown

May 06, 2020

CONTENTS

1	Installation	3
2	Supports	5
3	Docs & Source	7
4	Log Handler	9
5	Log Utils	11
6	Indices and tables	13
	Python Module Index	15
	Index	17

Some useful tools for logging. First of is the SRotHandler, a rotating file handler with a size limit. Second is a series of utilities for configuring your logging

INSTALLATION

```
$ pip install logthing
```


SUPPORTS

logthing has been tested with Python 3.6, 3.7, and 3.8

For Python 2 compatible source use version 0.10.1

DOCS & SOURCE

Docs: <http://logthing.readthedocs.io/en/latest/>

Source: <https://github.com/cltrudeau/logthing>

Version: 1.0.0

LOG HANDLER

```
class logthing.srothandler.NullLogRecord
```

```
    __init__ ()  
        Initialize a logging record with interesting information.
```

```
class logthing.srothandler.SizeRotatingFileHandler (filename, mode='a', maxBytes=0,  
                                                    encoding=None, debug=True, de-  
                                                    lay=0)
```

Rotating file handler that handles concurrent access without losing logs. When a size limit is hit the log is rotated, with the old log renamed based on timestamp.

Depending on the platform, the size limit may not be completely respected if several processes have it open simultaneously as it may need to wait for a process to let go.

This handler is based on the version 0.9.1 of the [ConcurrentLogHandler](#) by Lowell Alleman and with the exception of the removal of the “backup count” feature and how the files are renamed is a direct copy, the same caveats apply.

```
    __init__ (filename, mode='a', maxBytes=0, encoding=None, debug=True, delay=0)  
        Use the specified filename for streamed logging
```

```
    acquire ()  
        Acquire the I/O thread lock.
```

```
    close ()  
        Close log stream and stream_lock.
```

```
    release ()  
        Release the I/O thread lock.
```


LOG UTILS

`logthing.utils.LOG_FORMAT_ESCAPED = '\x1b[1m%(funcName)s\x1b[0m: %(message)s'`
 Log formatting constant that uses vt100 escape sequences to produce highlighted function names and displays the message

`logthing.utils.LOG_FORMAT_STANDARD = '%(asctime)s %(name)s.%(funcName)s: pid:tid=%(process)'`
 Typical log formatting constant shows date/time, function info, pid/tid and message

`logthing.utils.configure_file_logger(name, log_dir, log_level=10)`
 Shortcut method that sets up logging to use the `SizeRotatingFileHandler` with the `LOG_FORMAT_STANDARD` display.

`logthing.utils.configure_stdout_logger(log_level=10)`
 Shortcut method that sets up logging to use `STDOUT` and with the `LOG_FORMAT_ESCAPED` configuration.

`logthing.utils.default_logging_dict(log_dir, handlers=['file'], filename='debug.log')`
 Returns a logging configuration dictionary with reasonable defaults. Defines two handlers: “default” goes to `STDOUT` using the `LOG_FORMAT_ESCAPED` configuration and “file” uses a `SizeRotatingFileHandler` with the `LOG_FORMAT_STANDARD` configuration. Only the “file” handler is on by default.

Parameters

- **log_dir** – Directory for logs to go into.
- **handlers** – Which logging handlers to use. Defaults to only ‘file’
- **filename** – Base name of the file to log to. Defaults to “debug.log”.

`logthing.utils.silence_logging(method)`
 Context wrapper that on entry disables logging and turns it back on upon exit.

Often useful when testing if a test method is supposed to issue an error message which is confusing that the error shows for a successful test.

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

PYTHON MODULE INDEX

I

`logthing.srothandler`, [9](#)

`logthing.utils`, [11](#)

Symbols

`__init__()` (*logthing.srothandler.NullLogRecord* method), 9
`__init__()` (*logthing.srothandler.SizeRotatingFileHandler* method), 9
`silence_logging()` (*in module logthing.utils*), 11
`SizeRotatingFileHandler` (class in *logthing.srothandler*), 9

A

`acquire()` (*logthing.srothandler.SizeRotatingFileHandler* method), 9

C

`close()` (*logthing.srothandler.SizeRotatingFileHandler* method), 9
`configure_file_logger()` (*in module logthing.utils*), 11
`configure_stdout_logger()` (*in module logthing.utils*), 11

D

`default_logging_dict()` (*in module logthing.utils*), 11

L

`LOG_FORMAT_ESCAPED` (*in module logthing.utils*), 11
`LOG_FORMAT_STANDARD` (*in module logthing.utils*), 11
`logthing.srothandler` module, 9
`logthing.utils` module, 11

M

module
`logthing.srothandler`, 9
`logthing.utils`, 11

N

`NullLogRecord` (class in *logthing.srothandler*), 9

R

`release()` (*logthing.srothandler.SizeRotatingFileHandler* method), 9