# Package 'logr'

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**Title** Creates Log Files

**Version** 1.4.1

**Description** Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log_print() function will print to both the console and the file log, without interfering in other write operations.

**License** CC0

**Encoding** UTF-8

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`get_warnings` *Gets warnings from most recent log*

---

## Description

Returns a vector of warning messages from the most recent logging session. The function takes no parameters. The warning list will be cleared the next time `log_open` is called.

## Usage

```
get_warnings()
```

## See Also

`log_warning` to write a warning message to the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send warning message to log
log_warning("Here is a warning")

# Close log
log_close()

# Retrieve warnings
res <- get_warnings()

# View results
res
# [1] "Warning: Here is a warning"
```

log_close *Close the log*

## Description

The log_close function closes the log file.

## Usage

```
log_close(footer = TRUE)
```

## Arguments

| | |
|---|---|
| footer | Whether or not to print the log footer. Valid values are TRUE and FALSE. Default is TRUE. |

## Details

The log_close function terminates logging. The function also prints the log footer. The log footer contains a date-time stamp of when the log was closed.

## Value

None

## See Also

log_open to open the log, and log_print for printing to the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send message to log
log_print("High Mileage Cars Subset")

# Perform operations
hmc <- subset(mtcars, mtcars$mpg > 20)

# Print data to log
log_print(hmc)

# Close log
```

```
log_close()

# View results
writeLines(readLines(lf))
```

---

log_code *Log the current program code*

---

## Description

A function to send the program/script code to the currently opened log. The log must be opened first with log_open. Code will be prefixed with a right arrow (">") to differentiate it from standard logging lines. The log_code function may be called from anywhere within the program. Code will be inserted into the log at the point where it is called. The log_code function will log the code as it is saved on disk. It will not capture any unsaved changes in the editor. If the current program file cannot be found, the function will return FALSE and no code will be written.

## Usage

```
log_code()
```

## Value

A TRUE or FALSE value to indicate success or failure of the function.

## See Also

log_open to open the log, and log_close to close the log.

## Examples

```
# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Write code to the log
log_code()

# Send message to log
log_print("High Mileage Cars Subset")

# Perform operations
hmc <- subset(mtcars, mtcars$mpg > 20)

# Print data to log
log_print(hmc)
```

```
# Close log
log_close()

# View results
writeLines(readLines(lf))
```

---

log_error *Logs an error*

---

## Description

Writes an error message to the log. Error will be written both to the log and the message file. For the log, the error will be written at the point the function is called. This function is used internally.

## Usage

```
log_error(msg = NULL)
```

## Arguments

| | |
|---|---|
| msg | The message to log. |

## See Also

log_warning to write a warning message to the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send error message to log
log_error("Here is a error")

# Close log
log_close()

# View results
writeLines(readLines(lf))
```

log_info *Logs an informational message*

## Description

Writes an informational message to the log. Message will be written to the log at the point the function is called.

## Usage

```
log_info(msg, console = TRUE, blank_after = NULL, hide_notes = FALSE)
```

## Arguments

| | |
|---|---|
| msg | The message to log. The message must be a character string. |
| console | Whether or not to print to the console. Valid values are TRUE and FALSE. Default is TRUE. |
| blank_after | Whether or not to print a blank line following the printed message. The blank line helps readability of the log. Valid values are TRUE and FALSE. Default is TRUE. |
| hide_notes | If notes are on, this parameter gives you the option of not printing notes for a particular log entry. Default is FALSE, meaning notes will be displayed. Used internally. |

## Value

The object, invisibly

## See Also

log_warning to write a warning message to the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send info to log
log_info("Here is an info message")

# Close log
log_close()
```

```
# View results
writeLines(readLines(lf))
```

---

log_open *Open a log*

---

## Description

A function to initialize the log file.

## Usage

```
log_open(
  file_name = "",
  logdir = TRUE,
  show_notes = TRUE,
  autolog = NULL,
  compact = FALSE,
  traceback = TRUE,
  header = TRUE,
  stdout = FALSE,
  line_size = 80
)
```

## Arguments

| | |
|---|---|
| file_name | The name of the log file. If no path is specified, the working directory will be used. As of v1.2.7, the name and path of the program or script will be used as a default if the file_name parameter is not supplied. |
| logdir | Send the log to a log directory. If the log directory does not exist, the function will create it. Valid values are TRUE, FALSE, or a quoted directory name. The default is TRUE. The default log directory is named "log". |
| show_notes | If true, will write notes to the log. Valid values are TRUE and FALSE. Default is TRUE. |
| autolog | Whether to turn on autolog functionality. Autolog automatically logs functions from the dplyr, tidyr, and sassy family of packages. To enable autolog, either set this parameter to TRUE or set the "logr.autolog" option to TRUE. A FALSE value on this parameter will override the global option. The global option will override a NULL on this parameter. Default is that autolog is disabled. |
| compact | When the compact option is TRUE, **logr** will minimize the number of blank spaces in the log. This option generates the same logging information, but in less space. The "logr.compact" global option does the same thing. |
| traceback | By default, if there is an error in the program being logged, **logr** will print a traceback of the error. You may turn this feature off by setting the traceback parameter to FALSE. |

| | |
|---|---|
| header | Whether or not to print the log header. Value values are TRUE and FALSE. Default is TRUE. |
| stdout | If TRUE, the log will print to stdout instead of a file. Default is FALSE, which means the log will normally print to a file. This behavior can also be set with the global option globals("logr.stdout" = TRUE). |
| line_size | The maximum character width for a line in the log. If the line exceeds the maximum width, the line will be broken and wrapped to the next line. Default is 80 characters. |

## Details

The log_open function initializes and opens the log file. This function must be called first, before any logging can occur. The function determines the log path, attaches event handlers, clears existing log files, and initiates a new log.

The file_name parameter may be a full path, a relative path, or a file name. An relative path or file name will be assumed to be relative to the current working directory. If the file_name does not have a '.log' extension, the log_open function will add it.

As of v1.2.7, if the file_name parameter is not supplied, the function will use the program/script name as the default log file name, and the program/script path as the default path.

If requested in the logdir parameter, the log_open function will write to a subdirectory of the path specified in the file_name. If the subdirectory does not exist, the function will create it. By default, the subdirectory is named "log". If you want to name it something else, pass the desired name as a quoted string on the logdir parameter. If you don't want to send the log to a subdirectory, set logdir to FALSE.

The log file will be initialized with a header that shows the log file name, the current working directory, the current user, and a timestamp of when the log_open function was called.

All errors, the last warning, and any log_print output will be written to the log. The log file will exist in the location specified in the file_name parameter, and will normally have a '.log' extension.

If errors or warnings are generated, a second file will be written that contains only error and warning messages. This second file will have a '.msg' extension and will exist in the specified log directory. If the log is clean, the msg file will not be created. The purpose of the msg file is to give the user a visual indicator from the file system that an error or warning occurred. This indicator msg file is useful when running programs in batch.

To use **logr**, call log_open, and then make calls to log_print as needed to print variables or data frames to the log. The log_print function can be used in place of a standard print function. Anything printed with log_print will be printed to the log, and to the console if working interactively.

This package provides the functionality of sink, but in much more user-friendly way. Recommended usage is to call log_open at the top of the script, call log_print as needed to log interim state, and call log_close at the bottom of the script.

Logging may be controlled globally using the "logr.on" option. This option accepts a TRUE or FALSE value. If the option is set to FALSE, **logr** will print to the console, but not to the log. Example: options("logr.on" = TRUE)

Notes may be controlled globally using the "logr.notes" option. This option also accepts a TRUE or FALSE value, and determines whether or not to print notes in the log. The global option will

override the show_notes parameter on the log_open function. Example: options("logr.notes" = FALSE)

Version v1.2.0 of the **logr** package introduced **autolog**. The autolog feature provides automatic logging for **dplyr**, **tidyr**, and the **sassy** family of packages. To use autolog, set the autolog parameter to TRUE, or set the global option logr.autolog to TRUE. To maintain backward compatibility with prior versions, autolog is disabled by default.

The "compact" parameter will remove all the blank lines between log entries. The downside of a compact log is that it makes the log harder to read. The benefit is that it will take up less space. The global option "logr.compact" will achieve the same result.

If an error is encountered, a traceback of the error message is printed to the log and message files by default. This traceback helps in finding the source of the error, particularly in situations where you have deeply nested functions. If you wish to turn the traceback off, set the traceback parameter of the log_open function to FALSE. You may also use the global option logr.traceback to control printing of this information.

## Value

The path of the log.

## See Also

log_print for printing to the log (and console), and log_close to close the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send message to log
log_print("High Mileage Cars Subset")

# Perform operations
hmc <- subset(mtcars, mtcars$mpg > 20)

# Print data to log
log_print(hmc)

# Close log
log_close()

# View results
writeLines(readLines(lf))
```

## log_path *Get the path of the current log*

### Description

The log_path function gets the path to the currently opened log. This function may be useful when you want to manipulate the log in some way, and need the path. The function takes no parameters.

### Usage

```
log_path()
```

### Value

The full path to the currently opened log, or NULL if no log is open.

### Examples

```
# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
log_open(tmp)

# Get path
lf <- log_path()

# Close log
log_close()

lf
```

## log_print *Print an object to the log*

### Description

The log_print function prints an object to the currently opened log.

### Usage

```
log_print(x, ..., console = TRUE, blank_after = NULL, msg = FALSE, hide_notes = FALSE)

put(x, ..., console = TRUE, blank_after = NULL, msg = FALSE, hide_notes = FALSE)

sep(x, console = TRUE)

log_hook(x)
```

## Arguments

| | |
|---|---|
| x | The object to print. |
| ... | Any parameters to pass to the print function. |
| console | Whether or not to print to the console. Valid values are TRUE and FALSE. Default is TRUE. |
| blank_after | Whether or not to print a blank line following the printed object. The blank line helps readability of the log. Valid values are TRUE and FALSE. Default is TRUE. |
| msg | Whether to print the object to the msg log. This parameter is intended to be used internally. Value values are TRUE and FALSE. The default value is FALSE. |
| hide_notes | If notes are on, this parameter gives you the option of not printing notes for a particular log entry. Default is FALSE, meaning notes will be displayed. Used internally. |

## Details

The log is initialized with `log_open`. Once the log is open, objects like variables and data frames can be printed to the log to monitor execution of your script. If working interactively, the function will print both to the log and to the console. The `log_print` function is useful when writing and debugging batch scripts, and in situations where some record of a scripts' execution is required.

If requested in the `log_open` function, `log_print` will print a note after each call. The note will contain a date-time stamp and elapsed time since the last call to `log_print`. When printing a data frame, the `log_print` function will also print the number and rows and column in the data frame. These counts may also be useful in debugging.

Notes may be turned off either by setting the `show_notes` parameter on `log_open` to FALSE, or by setting the global option "logr.notes" to FALSE.

The `put` function is a shorthand alias for `log_print`. You can use `put` anywhere you would use `log_print`. The functionality is identical.

The `sep` function is also a shorthand alias for `log_print`, except it will print a separator before and after the printed text. This function is intended for documentation purposes, and you can use it to help organize your log into sections.

The `log_hook` function is for other packages that wish to integrate with **logr**. The function prints to the log only if `autolog` is enabled. It will not print to the console.

## Value

The object, invisibly

## See Also

`log_open` to open the log, and `log_close` to close the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send message to log
log_print("High Mileage Cars Subset")

# Perform operations
hmc <- subset(mtcars, mtcars$mpg > 20)

# Print data to log
log_print(hmc)

# Close log
log_close()

# View results
writeLines(readLines(lf))
```

---

# log_resume *Resume writing to a log*

---

## Description

A function to reopen and resume writing to a log file that has been suspended.

## Usage

```
log_resume(file_name = NULL)
```

## Arguments

| | |
|---|---|
| file_name | The name of the log file to resume. If the file_name parameter is not supplied, the function will look in the current session for the original name and path of the log. If that name and path is not found, an error will be generated. |

## Value

The path of the log.

## See Also

log_suspend for suspending the log, and log_close to close the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send message to log
log_print("Before suspend")

# Suspend log
log_suspend()

# View suspended log
writeLines(readLines(lf))

# Resume log
log_resume(lf)

# Print data to log
log_print("After suspend")

# Close log
log_close()

# View results
writeLines(readLines(lf))
```

---

# log_status *Get the status of the log*

---

## Description

The `log_status` function gets the status of the log. Possible status values are 'on', 'off', 'open', or 'closed'. The function takes no parameters.

## Usage

```
log_status()
```

## Value

The status of the log as a character string.

## Examples

```
# Check status before the log is opened
log_status()
# [1] "closed"

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Check status after log is opened
log_status()
# [1] "open"

# Close log
log_close()
```

---

log_suspend *Suspends the log*

---

## Description

The log_suspend function function suspends printing to the log, but does not close it. The function will not print the log footer. To reopen the log, call log_resume.

## Usage

```
log_suspend()
```

## Value

None

## See Also

log_resume to continue logging.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)

# Send message to log
```

```
log_print("Before suspend")

# Suspend log
log_suspend()

# View suspended log
writeLines(readLines(lf))

# Resume log
log_resume(lf)

# Print data to log
log_print("After suspend")

# Close log
log_close()

# View results
writeLines(readLines(lf))
```

---

log_warning *Logs a warning*

---

## Description

Writes a warning message to the log. Warning will be written both to the log at the point the function is called, and also written to the message file. This function is used internally.

## Usage

```
log_warning(msg = NULL)
```

## Arguments

| | |
|---|---|
| msg | The message to log. |

## See Also

log_error to write an error message to the log.

## Examples

```
library(logr)

# Create temp file location
tmp <- file.path(tempdir(), "test.log")

# Open log
lf <- log_open(tmp)
```

```
# Send warning message to log
log_warning("Here is a warning")

# Close log
log_close()

# View results
writeLines(readLines(lf))
```

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