

Package ‘log’

May 8, 2026

Title Record Events and Issues

Version 1.1.1

Description Logger to keep track of informational events and errors useful for debugging.

License AGPL-3

Encoding UTF-8

RoxygenNote 7.1.1

Imports R6, cli, crayon

Suggests shiny, plumber, testthat (>= 3.0.0), covr

Config/testthat/edition 3

BugReports <https://github.com/devOpifex/log/issues/>

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-02-24 19:40:02 UTC

Contents

inputLogger	2
is.log	2
Logger	3
plumber	7
shiny	8
templates	8
Index	9

inputLogger

Input logger

Description

Default logger used to log inputs in `logApp()`.

Usage

```
inputLogger
```

Format

An object of class `Logger` (inherits from `R6`) of length 13.

is.log

Log Check

Description

Log Check

Usage

```
is.log(obj)
```

Arguments

`obj` Object to check.

Value

TRUE if object is a logger, and FALSE otherwise.

Examples

```
info <- Logger$new("INFO")
is.log(info)
```

Logger

Logger

Description

Create a logger.

Public fields

`printer` A callback function to write the message to the console, must accept a single argument, defaults to `cat`.

`predicate` A predicate function that determines whether to actually run the log, useful if you want to switch the logger on and off for debugging.

If the function returns `TRUE` the logger runs as normal, if `FALSE` the logger does not actually print, write or dump the messages.

Methods

Public methods:

- `Logger$new()`
- `Logger$date()`
- `Logger$time()`
- `Logger$unix()`
- `Logger$hook()`
- `Logger$dir()`
- `Logger$flag()`
- `Logger$log()`
- `Logger$dump()`
- `Logger$clone()`

Method `new()`:

Usage:

```
Logger$new(prefix = NULL, write = FALSE, file = "log.log", sep = "\t")
```

Arguments:

`prefix` String to prefix all log messages.

`write` Whether to write the log to the file.

`file` Name of the file to dump the logs to, only used if `write` is `TRUE`.

`sep` Separator between `prefix` and other flags and messages.

Details: Initialise

Examples:

```
info <- Logger$new("INFO")
info$log("hello")
```

Method date():

Usage:

```
Logger$date(format = "%d-%m-%Y")
```

Arguments:

format Formatter for the item, passed to `format()`.

Details: Include the date in the log

Examples:

```
info <- Logger$new("INFO")$date()
info$log("today")
```

Method time():

Usage:

```
Logger$time(format = "%H:%M:%S")
```

Arguments:

format Formatter for the item, passed to `format()`.

Details: Include the time in the log

Examples:

```
info <- Logger$new("INFO")$time()
info$log("now")
```

Method unix():

Usage:

```
Logger$unix()
```

Details: Include the time in the log

Examples:

```
info <- Logger$new("INFO")$unix()
info$log("timestamp")
```

Method hook():

Usage:

```
Logger$hook(fn)
```

Arguments:

fn A function that accepts one argument (string) and returns a modified version of that string.

Details: Preprocess the prefix with a custom function

Examples:

```
err <- Logger$new("INFO")$hook(crayon::red)
err$log("hello")
```

Method dir():

Usage:

```
Logger$dir()
```

Details: Include the directory in the log

Examples:

```
info <- Logger$new("INFO")$dir()
info$log("directory")
```

Method `flag()`:

Usage:

```
Logger$flag(what)
```

Arguments:

what Function to run for every message logged or string to include in log message.

Details: Pass a custom flag

Examples:

```
fl <- function(){
  paste0(sample(letters, 4), collapse = "")
}
```

```
info <- Logger$new("INFO")$flag(fl)
info$log("random")
```

Method `log()`:

Usage:

```
Logger$log(..., sep = " ", collapse = " ")
```

Arguments:

... Elements to compose message.

sep, collapse Separators passed to `paste()`.

Details: Log messages

Examples:

```
info <- Logger$new("INFO")
info$log("Logger")
```

Method `dump()`:

Usage:

```
Logger$dump(file = "dump.log")
```

Arguments:

file Name of the file to dump the logs to.

Details: Dump the log to a file

Examples:

```
info <- Logger$new("INFO")
info$log("hello")
\dontrun{info$dump()}
```

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
Logger$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Examples

```

info <- Logger$new("INFO")$
  date()$
  time()$
  hook(crayon::blue)

info$log("Hello")
Sys.sleep(.7)
info$log("World")

## -----
## Method `Logger$new`
## -----

info <- Logger$new("INFO")
info$log("hello")

## -----
## Method `Logger$date`
## -----

info <- Logger$new("INFO")$date()
info$log("today")

## -----
## Method `Logger$time`
## -----

info <- Logger$new("INFO")$time()
info$log("now")

## -----
## Method `Logger$unix`
## -----

info <- Logger$new("INFO")$unix()
info$log("timestamp")

## -----
## Method `Logger$hook`
## -----

err <- Logger$new("INFO")$hook(crayon::red)
err$log("hello")

## -----
## Method `Logger$dir`
## -----

info <- Logger$new("INFO")$dir()
info$log("directory")

```

```

## -----
## Method `Logger$flag`
## -----

fl <- function(){
  paste0(sample(letters, 4), collapse = "")
}

info <- Logger$new("INFO")$flag(fl)
info$log("random")

## -----
## Method `Logger$log`
## -----

info <- Logger$new("INFO")
info$log("Logger")

## -----
## Method `Logger$dump`
## -----

info <- Logger$new("INFO")
info$log("hello")
## Not run: info$dump()

```

plumber

Plumber

Description

Serve a plumber API with metrics, use this function like you would use `plumber::pr()`.

Usage

```
prLog(file = NULL, ..., requests = requestLogger)
```

```
prWithLog(pr, requests = requestLogger)
```

Arguments

file	Plumber file as passed to <code>plumber::pr()</code> .
...	Any other argument to pass to <code>plumber::pr()</code> .
requests	Logger to log requests, set to NULL to not log.
pr	Plumber API as returned by <code>plumber::pr()</code> .

shiny *Default Logger for Shiny.*

Description

Serve a shiny application with default loggers, useful for debugging.

Usage

```
logApp(ui, server, ..., inputs = inputLogger)
```

```
shinyWithLog(app, inputs = inputLogger)
```

Arguments

ui, server	UI definition and server function as passed to <code>shiny::shinyApp()</code> .
...	Any other arguments passed to <code>shiny::shinyApp()</code> .
inputs	Logger to log inputs, set to NULL to not log.
app	Shiny application as returned by <code>shiny::shinyApp()</code> .

templates *Template Loggers*

Description

Template loggers for convenience.

Usage

```
infoLog(prefix = "INFO")
```

```
errorLog(prefix = "ERROR")
```

```
warningLog(prefix = "WARNING")
```

```
successLog(prefix = "SUCCESS")
```

Arguments

prefix	The prefix to use, this is passed to <code>Logger</code> .
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Examples

```
info <- infoLog()
info$log("Information")
```

Index

* datasets

- inputLogger, 2
- errorLog (templates), 8
- format(), 4
- infoLog (templates), 8
- inputLogger, 2
- is.log, 2
- logApp (shiny), 8
- logApp(), 2
- Logger, 3, 8
- paste(), 5
- plumber, 7
- plumber::pr(), 7
- prLog (plumber), 7
- prWithLog (plumber), 7
- shiny, 8
- shiny::shinyApp(), 8
- shinyWithLog (shiny), 8
- successLog (templates), 8
- templates, 8
- warningLog (templates), 8