

Package ‘gglogger’

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Type Package

Title Track 'ggplot2' Calls

Version 0.1.8

Description Provides a way to log 'ggplot' component calls, which can be useful for debugging and understanding how 'ggplot' objects are created. The logged calls can be printed, saved, and re-executed to reproduce the original 'ggplot' object.

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Imports ggplot2, cli, methods

Suggests rlang, testthat, S7

RoxygenNote 7.3.3

Encoding UTF-8

URL <https://github.com/pwwang/gglogger/>

NeedsCompilation no

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Contents

GGLog-class	2
GGLogs-class	2
ggplot	3
print.GGLog	3
print.GGLogs	4
register	4

Index	5
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GGLog-class

GGLog class

Description

The ‘GGLog’ class is used to store a single ggplot call.

Fields

code A string to store the code of the ggplot call.

Methods

evaluate(envir = parent.frame()) Evaluate the log.
 @param envir The environment to evaluate the log in.
 stringify() Stringify the log.
 @return A string.

GGLogs-class

GGLogs class

Description

The ‘GGLogs’ class is used to store logs of ggplot calls. Each log is stored as a ‘GGLog’ object. The object can be accessed using the ‘\$logs’ field from a ggplot object.

Fields

logs A list to store the logs.

Methods

add(log) Add a log to the list.
 @param log A GGLog object.
 evaluate(envir = parent.frame()) Evaluate all logs in the list.
 @param envir The environment to evaluate the logs in.
 gen_code(setup = "library(ggplot2)") Generate code for all logs in the list.
 @param setup A string to setup the environment.
 @return A string of code.
 stringify() Stringify all logs in the list.
 @return A string.

ggplot	<i>Override ggplot function to log calls</i>
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Description

Override ggplot function to log calls

Usage

```
ggplot(...)
```

Arguments

... Arguments passed to ggplot2::ggplot.

Value

A ggplot object with logged calls.

print.GGLog	<i>Print a GGLog object</i>
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Description

Print a GGLog object

Usage

```
## S3 method for class 'GGLog'  
print(x, ...)
```

Arguments

x A GGLog object.
... Additional arguments.

Value

Display the logs and invisibly return the logs.

print.GGLogs	<i>Print a GGLogs object</i>
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Description

Print a GGLogs object

Usage

```
## S3 method for class 'GGLogs'
print(x, ...)
```

Arguments

x	A GGLogs object.
...	Additional arguments.

Value

Display the logs and invisibly return the logs.

register	<i>Register a function that returns a ggplot object This is usually implemented by ggplot extensions.</i>
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Description

Register a function that returns a ggplot object This is usually implemented by ggplot extensions.

Usage

```
register(f, name = NULL)
```

Arguments

f	A function that returns a ggplot object.
name	A string to represent the name of the function.

Value

A function that returns a ggplot object with logged calls.

Index

GGLog (GGLog-class), [2](#)
GGLog-class, [2](#)
GGLogs (GGLogs-class), [2](#)
GGLogs-class, [2](#)
ggplot, [3](#)

print.GGLog, [3](#)
print.GGLogs, [4](#)

register, [4](#)