Package: gglogger (via r-universe)

October 26, 2024

Type Package

Title Track 'ggplot2' Calls

Version 0.1.5

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

RoxygenNote 7.3.2

Encoding UTF-8

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

Repository https://pwwang.r-universe.dev

RemoteUrl https://github.com/pwwang/gglogger

RemoteRef HEAD

RemoteSha 9f38930d34d79763f0e328b38755436e04b13f8d

Contents

+.gg   *Override + operator for ggplot objects to log calls*

Description

Override + operator for ggplot objects to log calls

Usage

```
## S3 method for class 'gg'
e1 + e2
```

Arguments

e1   A ggplot object.

e2   A layer to add to the ggplot object.

Value

A ggplot object with logged calls.

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.

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ggplot   *Override ggplot function to log calls*

Description

Override ggplot function to log calls

Usage

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

Arguments

`...`   Arguments passed to ggplot2::ggplot.

Value

A ggplot object with logged calls.

---

print.GGLog   *Print a GGLog object*

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   *Print a GGLogs object*

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.

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

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.

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