Package 'errorist'

November 14, 2023

Title Automatically Search Errors or Warnings

Version 0.1.2

Description Provides environment hooks that obtain errors and warnings which occur during the execution of code to automatically search for solutions.

URL https://github.com/coatless-rpkg/errorist,

https://r-pkg.thecoatlessprofessor.com/errorist/

BugReports https://github.com/coatless-rpkg/errorist/issues

Depends R (>= 3.0.0)

Imports searcher (>= 0.0.2)

Suggests testthat, covr, knitr, rmarkdown

License GPL (>= 2)

Encoding UTF-8

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VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

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enable_errorist   *Enable or Disable Errorist's Automatic Search*

Description

Activates or disengages the automatic look up of error or warning codes in *R*.

Usage

```
enable_errorist(
  error_search_func = getOption("errorist.warning", searcher::search_google),
  warning_search_func = getOption("errorist.warning", searcher::search_google)
)

disable_errorist()
```

Arguments

```
error_search_func, warning_search_func
```
> The search function from searcher that should be called when an error or warning occurs. By default, searches are routed through Google.

Details

The `enable_errorist()` is automatically called on package start to inject handlers for warnings and errors. When the package is unloaded, `disable_errorist()` is called to remove warnings and errors. If you wish to disable warnings or error individually, please use either `disable_error_shim()` or `disable_warning_shim()`.

Author(s)

James Joseph Balamuta

See Also

`enable_error_shim()`, `enable_warning_shim()`, `disable_error_shim()`, `disable_warning_shim()`

Examples

```
### Default search engine is Google

# Enable automatic search
# NB: This is done automatically on package load.
enable_errorist()

# Some code ...

# Disable automatic search
```

```
# NB: This is done automatically on package unload via "detach()"
disable_errorist()

#### Custom search engines

# Enable automatic search with custom search engines
# NB: This is done automatically on package load.
enable_errorist(error_search_func   = searcher::search_bing,
                warning_search_func = searcher::search_duckduckgo)

# Some code ...

# Disable automatic search
# NB: This is done automatically on package unload via "detach()"
disable_errorist()
```

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enable_warning_shim   *Enable and Disable Warning or Error Capture*

Description

Add or remove a listener to top-level task callbacks that checks for whether a new warning or error occurs and then triggers a search browser.

Usage

```
enable_warning_shim(
  warning_search_func = getOption("errorist.warning", searcher::search_google)
)

disable_warning_shim()

enable_error_shim(
  error_search_func = getOption("errorist.error", searcher::search_google)
)

disable_error_shim()
```

Arguments

error_search_func, warning_search_func

>   The search function from [searcher](#) that should be called when an error or warning occurs. By default, searches are routed through [Google](#).

Details

By default, both [enable_warning_shim()](#) and [enable_error_shim()](#) functions are automatically triggered when the errorist package is loaded.

Error Shim

The error shim uses *R*'s default handler for errors set by specifying a function for error in options().

Warning Shim

For the warning shim, a top-level task callback added to the environment via base::addTaskCallback().
This causes the warning handler to fire each time a new function call occurs in *R* regardless of
whether it triggers an error.

Author(s)

James Joseph Balamuta

See Also

base::addTaskCallback()

Examples

```
# Default setup
enable_warning_shim()

# Some code ...

# Remove the shim
disable_warning_shim()

# Specify a search function
enable_warning_shim(warning_search_func = searcher::search_google)

# Some code ...

# Remove the shim
disable_warning_shim()

# Enable only the error shim
enable_error_shim()

# Some code ...

# Remove the shim
disable_error_shim()

# Specify a search function
enable_error_shim(error_search_func = searcher::search_google)

# Some code ...

# Remove the shim
disable_error_shim()
```

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