Package ‘errorist’

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Title  Automatically Search Errors orWarnings
Version  0.1.0
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/r-assist/errorist

BugReports  https://github.com/r-assist/errorist/issues

Depends  R (>= 3.0.0)
Imports  searcher (>= 0.0.2)
Suggests  testthat, covr, knitr, rmarkdown
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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

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

- **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

```r
### Default search engine is Google

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

# 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**

```r
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

```r
# 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_warning_shim

    enable_error_shim(error_search_func = searcher::search_google)

    # Some code ...

    # Remove the shim
    disable_error_shim()
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