

Package: biocroxytest (via r-universe)

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Title Handle Long Tests in Bioconductor Packages

Version 1.8.0

Description This package provides a roclet for roxygen2 that identifies and processes code blocks in your documentation marked with `@longtests`. These blocks should contain tests that take a long time to run and thus cannot be included in the regular test suite of the package. When you run `roxygen2::roxygenise` with the `longtests_roclet`, it will extract these long tests from your documentation and save them in a separate directory. This allows you to run these long tests separately from the rest of your tests, for example, on a continuous integration server that is set up to run long tests.

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Encoding UTF-8

Roxygen list(markdown = TRUE, roclets = c("`rd", "`collate", "`namespace"))

RoxygenNote 7.3.0

URL <https://github.com/xec-cm/biocroxytest>

BugReports <https://github.com/xec-cm/biocroxytest/issues>

biocViews Software, Infrastructure

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| longtests_roclet | <i>Roclet for Long Tests</i> |
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Description

This roclet is used to identify and process code blocks in your documentation that are marked with `@longtests`. The `longtests_roclet` function creates a new roclet, which is a plugin to the `roxygen2` package. Roclets are responsible for parsing the R scripts of a package and producing the relevant documentation files.

Usage

```
longtests_roclet()
```

Details

The `longtests_roclet` specifically looks for code blocks in your documentation that are annotated with the `@longtests` tag. These code blocks should contain tests that take a long time to run, and thus cannot be included in the regular test suite of the package.

When you run `roxygen2::roxygenise` with the `longtests_roclet`, it will extract these long tests from your documentation and save them in a separate directory. This allows you to run these long tests separately from the rest of your tests, for example, on a continuous integration server that is set up to run long tests.

Value

A roclet that can be used with `roxygen2` to process code blocks marked with `@longtests`. This roclet will produce a set of test files in a separate directory, which can be run independently of the rest of your test suite.

Examples

```
# Create a new roclet
longtests_roclet()
```

`roclet_clean.roclet_longtests`*Clean up test files in the 'longtests' directory*

Description

This function cleans up test files in the 'longtests' directory of a given base path. It first verifies if 'longtests' is used in the package by calling `verify_longtests_used()`. Then, it finds all test files in the 'longtests' directory that match the pattern "test-biocroxytest-.*\R\$". Finally, it calls `internal_longtests_roclet_clean(testfiles)` to remove the test files generated by biocroxytest.

Usage

```
## S3 method for class 'roclet_longtests'  
roclet_clean(x, base_path)
```

Arguments

`x` An object of class 'roclet_longtests'.
`base_path` A character string representing the base path of the package.

Value

Invisible NULL.

Examples

```
# Set up a temporary directory  
base_path <- tempdir()  
longtests_path <- file.path(base_path, "longtests")  
unlink(longtests_path, recursive = TRUE, force = TRUE)  
dir.create(longtests_path, recursive = TRUE, showWarnings = FALSE)  
  
# Create dummy inputs  
obj <- longtests_roclet()  
  
# Run the roclet_output function  
result <- roxygen2::roclet_clean(obj, base_path)
```

`roclet_output.roclet_longtests`*Process blocks for 'longtests' roclet*

Description

This function processes a list of blocks for the 'longtests' roclet. It calls the 'internal_longtests_roclet_process' function with the specified blocks and additional arguments. The code in the tests is indented, a 'test_that' boilerplate is added to the tests, and a 'context' line is not added to the header.

Usage

```
## S3 method for class 'roclet_longtests'  
roclet_output(x, results, base_path, ...)
```

Arguments

| | |
|------------------------|--|
| <code>x</code> | An object of class 'roclet_longtests'. package. |
| <code>results</code> | A list with a single element 'longtests', which contains the |
| <code>base_path</code> | A character string representing the base path of the |
| <code>...</code> | Additional arguments passed to the function. |

Value

A list with a single element 'longtests', which contains the processed test files.

Examples

```
# Set up a temporary directory  
base_path <- tempdir()  
longtests_path <- file.path(base_path, "longtests", "testthat")  
unlink(longtests_path, recursive = TRUE, force = TRUE)  
dir.create(longtests_path, recursive = TRUE, showWarnings = FALSE)  
  
# Create dummy inputs  
obj <- longtests_roclet()  
results <- list(longtests = list())  
  
# Run the roclet_output function  
result <- roxygen2::roclet_output(obj, results, base_path)
```

```
roclet_process.roclet_longtests
  Process blocks for 'longtests' roclet
```

Description

This function processes a list of blocks for the 'longtests' roclet. It calls the 'internal_longtests_roclet_process' function with the specified blocks and additional arguments. The code in the tests is indented, a 'test_that' boilerplate is added to the tests, and a 'context' line is not added to the header.

Usage

```
## S3 method for class 'roclet_longtests'
roclet_process(x, blocks, env, base_path)
```

Arguments

| | |
|-----------|---|
| x | An object of class 'roclet_longtests'. |
| blocks | A list of roxygen2 blocks. |
| env | The environment in which the roxygen2 blocks were parsed. |
| base_path | A character string representing the base path of the package. |

Value

A list with a single element 'longtests', which contains the processed test files.

Examples

```
# Create a dummy block function
block <- function(roclet, value) {
  list(roclet = roclet, value = value)
}

# Create a new roclet_longtests object
x <- longtests_roclet()

# Define some roxygen2 blocks
blocks <- list(
  block(
    roclet = "longtests",
    value = list(
      raw = "test_that('this is a test', { expect_equal(1, 1) })"
    )
  )
)

blocks <- structure(blocks, class = "roclet_longtests")
```

```
# Define the environment and base path
env <- globalenv()
base_path <- tempdir()

# Process the blocks
roxygen2::rocllet_process(x, blocks, env, base_path)
```

| | |
|---------------|---|
| use_longtests | <i>Sets up overall longtests infrastructure</i> |
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Description

This function is used to set up the environment for running long tests. It calls two helper functions: `setup_bboptions()` and `setup_longtetsts()`.

Usage

```
use_longtests()
```

Details

The `use_longtests()` function is a wrapper function that calls `setup_bboptions()` and `setup_longtetsts()`. The `setup_bboptions()` function checks if the `.BBSoptions` file exists and creates it if it doesn't. It then checks the contents of the `.BBSoptions` file and adds or modifies the `'RunLongTests: TRUE'` line as needed. The `setup_longtetsts()` function creates a `'longtests/testthat'` directory if it doesn't exist and copies the `'tests/testthat.R'` file into it. If the `'tests/testthat.R'` file doesn't exist, it creates a new one with default content.

Value

This function does not return a value. It is used for its side effects of setting up the environment for running long tests.

Examples

```
# Create the longtests directory and .BBSoptions file
use_longtests()

# Remove the longtests directory and .BBSoptions file
unlink(file.path(".BBSoptions"), recursive = TRUE, force = TRUE)
unlink(file.path("longtests"), recursive = TRUE, force = TRUE)
```

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