

Package ‘hySpc.testthat’

June 24, 2020

Type Package

Title 'testthat' Unit Test Enhancements

Version 0.2.1

Maintainer Claudia Beleites <Claudia.Beleites@chemometrix.gmbh>

Description Enhance package 'testthat' by allowing tests to be attached to the function/object they test.
This allows to keep functional and unit test code together.

License MIT + file LICENSE

Encoding UTF-8

LazyLoad yes

LazyData yes

Depends testthat

RoxygenNote 7.1.0

Collate 'test.R' 'gettest.R' 'test-fun.R' 'unittest.R'

NeedsCompilation no

Author Claudia Beleites [aut, cre],
Erick Oduniyi [aut]

Repository CRAN

Date/Publication 2020-06-24 13:00:02 UTC

R topics documented:

get_test	2
test<-	3
test_fun	3
unittest	4

Index	5
--------------	----------

`get_test`*Get test that is attached to object as "test" attribute*

Description

The returned function can be executed. If that is done within a [testthat::Reporter](#), the results will be reported accordingly. Without reporter, the test runs silently if successful and stops if it fails.

Usage

```
get_test(object)
```

Arguments

`object` to which the test is attached

Value

the test (function)

Examples

```
f <- function(x) x^2

test(f) <- function() {
  context("f")

  test_that("correct result for complex number", {
    expect_equal(f(1i), -1 + 0i)
  })
}

get_test(f)

library(testthat)
## execute the test
get_test(f]()

with_reporter("summary", get_test(f]()
```

test<- *Attach unit tests to objects*

Description

This function attaches unit tests in value to an object (typically a function) as an attribute "test".

Usage

```
test(f) <- value
```

Arguments

f the function (object) to which the tests are to be attached
value the test code, a function with no parameters

Value

f with the test attached as attribute "test"

Examples

```
f <- function(x) x^2

test(f) <- function() {
  context("f")

  test_that("correct result for complex number", {
    expect_equal(f(1i), -1 + 0i)
  })
}
```

test_fun *Run test attached to function*

Description

Execute test attached to a function with [testthat::Reporter](#).

Usage

```
test_fun(object, reporter = "minimal")
```

Arguments

object to which the test is attached
reporter [testthat::Reporter](#) to use

Value

the test (function)

Examples

```
f <- function(x) x^2

test(f) <- function() {
  context("f")

  test_that("correct result for complex number", {
    expect_equal(f(1i), -1 + 0i)
  })
}

test_fun(f)
```

 unittest

Run unit tests

Description

If [testthat::testthat-package](#) is available, run the unit tests and display the results.

Usage

```
unittest(ns, standalone = TRUE, reporter = "progress")
```

Arguments

ns	namespace (package) to test
standalone	if TRUE, appropriate testthat::Reporters are used, if FALSE the execution assumes reporters are started already.
reporter	testthat::Reporter to be used.

Value

Invisibly returns a data.frame with the test results

Author(s)

Claudia Beleites

Examples

```
unittest("hySpc.testthat")
```

Index

*Topic **programming**

unittest, [4](#)

*Topic **utilities**

unittest, [4](#)

get_test, [2](#)

test<-, [3](#)

test_fun, [3](#)

testthat::Reporter, [2–4](#)

testthat::testthat-package, [4](#)

unittest, [4](#)