

Package: testthatmulti (via r-universe)

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Type Package

Title Testing for R Packages with Multiple Attempts for Noisy Tests

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Author Collin Erickson

Maintainer Collin Erickson <collinberickson@gmail.com>

Description Runs tests using the 'testthat' package but allows for multiple attempts for a single test. This is useful for noisy or flaky tests that generally pass but can fail due to occasional random errors, such as numeric instability or using random data.

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Encoding UTF-8

RoxygenNote 7.2.3

Suggests testthat (>= 3.0.0), rlang

Config/testthat/edition 3

Language en-US

Repository <https://collinerickson.r-universe.dev>

RemoteUrl <https://github.com/collinerickson/testthatmulti>

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Contents

ttm	2
ttm_expect_equal	3
ttm_expect_true	4

Index	6
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`ttm`*Test that with multiple attempts*

Description

Test that with multiple attempts

Usage

```
ttm(n, expr, verbose = 0)
```

Arguments

<code>n</code>	Maximum number of attempts
<code>expr</code>	Expression to evaluate
<code>verbose</code>	Amount that should be printed

Value

Nothing

Examples

```
set.seed(0)

# 1 attempt, all pass
ttm(1, {
  ttm_expect_true(TRUE)
  ttm_expect_true(1 == 1)
  ttm_expect_true(all(1:5 == 1:5))
})

# Fails first 10 times, then passes
ttm(100, {
  x <- runif(1)
  print(x)
  ttm_expect_true(x < 0.1)
})

# Will always fail regardless of number of attempts
try({
  ttm(3, {
    ttm_expect_true(1 == 2)
  })
})
```

ttm_expect_equal	<i>Test that multi: expect equal</i>
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Description

Test that multi: expect equal

Usage

```
ttm_expect_equal(
  object,
  expected,
  ...,
  tolerance = if (testthat::edition_get() >= 3) testthat::testthat_tolerance(),
  info = NULL,
  label = NULL,
  expected.label = NULL,
  verbose = 0
)
```

Arguments

object	Object to check if equal to expected
expected	Expected value
...	Args passed to testthat::expect_equal()
tolerance	Passed to 'testthat::expect_true()'. Default is 1e-8.
info	Passed to 'testthat::expect_true()'. Default is NULL.
label	Passed to 'testthat::expect_true()'. Default is NULL.
expected.label	Passed to 'testthat::expect_true()'. Default is NULL.
verbose	Amount of info that should be printed. Default is 0.

Value

Test result

Examples

```
set.seed(0)

# 1 attempt, all pass
ttm(1, {
  ttm_expect_equal(TRUE, TRUE)
  ttm_expect_equal(1, 1)
  ttm_expect_equal(1:5, 1:5)
})
```

```
# Fails first 6 times, then passes
ttm(100, {
  x <- sample(1:6, 1)
  print(x)
  ttm_expect_equal(x, 3)
})

# Will always fail regardless of number of attempts
try({
  ttm(3, {
    ttm_expect_equal(1, 2)
  })
})
```

ttm_expect_true	<i>Test that multi: expect true</i>
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Description

See ‘testthat::expect_true’ for details.

Usage

```
ttm_expect_true(object, info = NULL, label = NULL, verbose = 0)
```

Arguments

object	Object to test.
info	Passed to ‘testthat::expect_true()’.
label	Passed to ‘testthat::expect_true()’.
verbose	Amount of info that should be printed.

Value

Test result

Examples

```
set.seed(0)

# 1 attempt, all pass
ttm(1, {
  ttm_expect_true(TRUE)
  ttm_expect_true(1 == 1)
  ttm_expect_true(all(1:5 == 1:5))
})

# Fails first 10 times, then passes
ttm(100, {
```

```
x <- runif(1)
print(x)
ttm_expect_true(x < 0.1)
})

# Will always fail regardless of number of attempts
try({
  ttm(3, {
    ttm_expect_true(1 == 2)
  })
})
```

Index

ttm, [2](#)
ttm_expect_equal, [3](#)
ttm_expect_true, [4](#)