Package 'testthatmulti'

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Type Package

Title Testing for R Packages with Multiple Attempts for Noisy Tests

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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.

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.2.3

Suggests testthat (>= 3.0.0), rlang

Config/testthat/edition 3

Language en-US

NeedsCompilation no

Repository CRAN

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Contents

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ttm   *Test that with multiple attempts*

Description

Test that with multiple attempts

Usage

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

Arguments

n	Maximum number of attempts
expr	Expression to evaluate
verbose	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`   *Test that multi: expect equal*

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()'.
`info`	Passed to 'testthat::expect_true()'.
`label`	Passed to 'testthat::expect_true()'.
`expected.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_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   *Test that multi: expect true*

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)
  })
})
```

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