Package 'testthatmulti'

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Type Package

Title Testing for R Packages with Multiple Attempts for Noisy Tests
Version 0.1.0
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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.
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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)</pre>
  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 3

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)
})
```

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```
# 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)
    })
})</pre>
```

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, {
```

ttm_expect_true 5

```
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)
   })
})</pre>
```

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