Package 'testthatmulti'

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Type Package Title Testing for R Packages with Multiple Attempts for Noisy Tests Version 0.1.0 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. 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 Date/Publication 2024-02-05 20:20:02 UTC

R topics documented:

Index		6
	ttm_expect_true	4
	ttm_expect_equal	
	ttm	2

1

Description

ttm

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)
  })
})
```

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)
    })
})</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, {
```

```
4
```

ttm_expect_true

```
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>
```

Index

ttm, 2
ttm_expect_equal, 3
ttm_expect_true, 4