Package: ttdo (via r-universe)

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Title Extend 'tinytest' with 'diffobj'

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Description The 'tinytest' package offers a light-weight
zero-dependency unit-testing framework to which this package
adds support of the 'diffobj' package for 'diff'-style
comparison of R objects.

License GPL (>= 2)

URL https://github.com/eddelbuettel/ttdo/,
https://dirk.eddelbuettel.com/code/ttdo.html

BugReports https://github.com/eddelbuettel/ttdo/issues

NeedsCompilation no

Encoding UTF-8

Imports tinytest (>= 1.4.1), diffobj

RoxygenNote 7.1.0

Repository https://eddelbuettel.r-universe.dev

RemoteUrl https://github.com/eddelbuettel/ttdo

RemoteRef HEAD

RemoteSha e7d5fd78fc44331e0896434d7101621436be9e84

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expect_equal_with_diff

Test for equality with explicit difference

Description

Test for equality with explicit difference

Usage

```
expect_equal_with_diff(
  current,
  target,
  tol = sqrt(.Machine$double.eps),
  mode = getOption("diffobj.mode", "unified"),
  format = getOption("diffobj.format", "ansi256"),
  ...
)

expect_equivalent_with_diff(
  current,
  target,
  tol = sqrt(.Machine$double.eps),
  ...
)
```

Arguments

current	[R object or expression] Outcome or expression under scrutiny.
target	[R object or expression] Expected outcome
tol	[numeric] Test equality to machine rounding. Passed to [all.equal](tolerance)
mode	[character] Comparison mode passed to diffPrint, defaults to using the "diffobj.mode" global option value with "unified" as fallback if no such option is set
format	[character] Comparison mode passed to diffPrint, defaults to to using the "diffobj.format" global option value with "ansi256" as fallback if no such option is set
...	Passed to all.equal

Details

expect_equivalent_with_diff calls expect_equal_with_diff with the extra arguments check.attributes=FALSE and use.names=FALSE

Value

A [tinytest](#) object. A tinytest object is a `logical` with attributes holding information about the test that was run

Examples

```
library(tinytest)
using(ttdo)
expect_equal_with_diff(1 + 1, 2)  # TRUE
expect_equal_with_diff(1 - 1, 2)  # FALSE
expect_equivalent_with_diff(2, c(x=2)) # TRUE
expect_equivalent_with_diff(2, c(x=2)) # TRUE
```

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expect_equal_xl   *Extensions of equality tests for tinytest*

Description

Building on the tinytest functions for testing equality with optional enhanced object diffing and additional test feedback through addtional attributes.

Usage

```
expect_equal_xl(
  current,
  target,
  useDiffObj = TRUE,
  tol = sqrt(.Machine$double.eps),
  info = NA_character_,
  mode = getOption("diffobj.mode", "unified"),
  format = getOption("diffobj.format", "ansi256"),
  ...
)

expect_identical_xl(
  current,
  target,
  useDiffObj = TRUE,
  info = NA_character_,
  mode = getOption("diffobj.mode", "unified"),
  format = getOption("diffobj.format", "ansi256"),
  ...
)

expect_equivalent_xl(
  current,
  target,
```

```
    useDiffObj = TRUE,
    tol = sqrt(.Machine$double.eps),
    info = NA_character_,
    mode = getOption("diffobj.mode", "unified"),
    format = getOption("diffobj.format", "ansi256"),
    ...
)
```

Arguments

current	[R object or expression] Outcome or expression under scrutiny.
target	[R object or expression] Expected outcome
useDiffObj	[logical] Whether you should use diffPrint for the diff field in the resulting tinytest object
tol	[numeric] Test equality to machine rounding. Passed to all.equal (tolerance)
info	An additional attribute to pass around with the tinytest object
mode	[character] Comparison mode passed to diffPrint, defaults to using the "diffobj.mode" global option value with "unified" as fallback if no such option is set
format	[character] Comparison mode passed to diffPrint, defaults to to using the "diffobj.format" global option value with "ansi256" as fallback if no such option is set
...	Passed to all.equal and returned as a test attributes

Details

While tinytest does now support the passing of additional information with the info field in its tests, they are not yet supported in the as.data.frame.tinytests method.

Value

A tinytest object. A tinytest object is a logical with attributes holding information about the test that was run

Examples

```
library(tinytest)
using(ttdo)
expect_equal_xl(1 + 1, 2, score = 3) # TRUE
expect_equal_xl(1 - 1, 2, name = "check 1-1==2", score = 1, totalpts = 2) # FALSE
```

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makeDataFrame   *Convert tinytest results to data.frame*

Description

This method extends the as.data.frame.tinytest method to handle arbitrary attributes attached
to each tinytest object. You can pass in the results of a single test (a tinytest object) directly or the
results of one of the run_test_* functions (a tinytests object).

Usage

```
makeDataFrame(x)
```

Arguments

x   a tinytest or tinytests object

Examples

```
# create a test file in tempdir
tests <- "
using(ttdo)

addOne <- function(x) x + 2

expect_true(addOne(0) > 0)
expect_equal(2, addOne(1))
"
testfile <- tempfile(pattern = "test_", fileext = ".R")
write(tests, testfile)

# extract testdir
testdir <- dirname(testfile)
# run all files starting with 'test' in testdir
library(tinytest)
out <- run_test_dir(testdir)
#
# convert results
dat <- makeDataFrame(out)
dat

dat2 <- makeDataFrame(expect_equal_xl(1-1, 2, useDiffObj = FALSE, name = 'subtr', pts = 1))
```

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ttdo_boolean_and_message_tests

Extensions of boolean and messaging tests from tinytest

Description

Building on the tinytest functions for testing boolean values with additional test feedback through attributes.

Usage

```
expect_true_xl(current, info = NA_character_, ...)

expect_false_xl(current, info = NA_character_, ...)

expect_null_xl(current, info = NA_character_, ...)

expect_silent_xl(current, quiet = TRUE, info = NA_character_, ...)

expect_error_xl(
  current,
  pattern = ".*",
  class = "error",
  info = NA_character_,
  ...
)

expect_warning_xl(
  current,
  pattern = ".*",
  class = "warning",
  info = NA_character_,
  strict = FALSE,
  ...
)

expect_message_xl(
  current,
  pattern = ".*",
  class = "message",
  info = NA_character_,
  strict = FALSE,
  ...
)
```

Arguments

current	[R object or expression] Outcome or expression under scrutiny.
info	scalar. Optional user-defined message. Must be a single character string. Multi-line comments may be separated by "\n".
...	Passed to all.equal and returned as a test attribute
quiet	[logical] suppress output printed by the current expression (see examples)
pattern	[character] A regular expression to match the message.
class	[character] For condition signals (error, warning, message) the class from which the condition should inherit.
strict	[logical] scalar. If set to TRUE, any exception worse than the wanted exception will cause the test to fail.

Details

While tinytest does now support the passing of additional information with the info field in its tests, they are not yet supported in the as.data.frame.tinytests method.

Value

A [tinytest](#) object. A tinytest object is a logical with attributes holding information about the test that was run

Examples

```
library(tinytest)
using(ttdo)
expect_true_xl(TRUE, score = 3) # TRUE
expect_true_xl(FALSE, name = "check 1-1==2", score = 1, totalpts = 2) # FALSE
```

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