

Package ‘runittotestthat’

August 29, 2016

Type Package

Title Convert 'RUnit' Test Functions into 'testthat' Tests

Version 0.0-2

Date 2015-06-24

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Description Automatically convert a file or package worth of 'RUnit' test functions into 'testthat' tests.

Depends R (>= 2.15.0)

Imports assertive (>= 0.2-1), RUnit

Suggests testthat

Enhances devtools

License Unlimited

LazyLoad yes

LazyData yes

Acknowledgments Development of this package was partially funded by the Proteomics Core at Weill Cornell Medical College in Qatar <<http://qatar-weill.cornell.edu>>. The Core is supported by 'Biomedical Research Program' funds, a program funded by Qatar Foundation.

NeedsCompilation no

Repository CRAN

Date/Publication 2015-06-24 15:45:01

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convert_brace	<i>Convert a code block.</i>
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Description

Converts a switch call.

Usage

```
convert_brace(x)
```

Arguments

x	A call to the brace function.
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Value

x the input, with a warning.

`convert_checkEquals` *Convert a checkEquals call.*

Description

Converts a `checkEquals` call.

Usage

`convert_checkEquals(x)`

Arguments

x A call to the `checkEquals` function.

Value

x A call to the `expect_equal` function.

`convert_checkEqualsNumeric`
 Convert a checkEqualsNumeric call.

Description

Converts a `checkEqualsNumeric` call.

Usage

`convert_checkEqualsNumeric(x)`

Arguments

x A call to the `checkEqualsNumeric` function.

Value

x A call to the `expect_equal` function.

convert_checkException

Convert a checkException call.

Description

Converts a checkException call.

Usage

convert_checkException(x)

Arguments

x A call to the [checkException](#) function.

Value

x A call to the [expect_error](#) function.

convert_checkIdentical

Convert a checkIdentical call.

Description

Converts a checkIdentical call.

Usage

convert_checkIdentical(x)

Arguments

x A call to the [checkIdentical](#) function.

Value

x A call to the [expect_identical](#) function.

convert_checkTrue	<i>Convert a checkTrue call.</i>
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Description

Converts a checkTrue call.

Usage

```
convert_checkTrue(x)
```

Arguments

x A call to the [checkTrue](#) function.

Value

x A call to the [expect_true](#) or [expect_false](#) function. (The later occurs if the input to checkTrue was negated.)

convert_for	<i>Convert a for block.</i>
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Description

Converts a for call.

Usage

```
convert_for(x)
```

Arguments

x A call to the [for](#) function.

Value

x An object of class call.

convert_if	<i>Convert an if block.</i>
------------	-----------------------------

Description

Converts an if call.

Usage

```
convert_if(x)
```

Arguments

x A call to the `if` function.

Value

x An object of class `call`.

convert_line	<i>Convert lines of RUnit code to testthat code</i>
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Description

Converts lines of RUnit code to the equivalent testthat code.

Usage

```
convert_line(x)
```

Arguments

x An R language object.

Value

An object of class `call`.

convert_lines	<i>Convert lines of RUnit code to testthat code</i>
---------------	---

Description

Converts lines of RUnit code to the equivalent testthat code.

Usage

```
convert_lines(lines)
```

Arguments

lines An object of class call.

Value

An object of class call.

convert_package_tests	<i>Convert a package worth of RUnit tests to testthat tests</i>
-----------------------	---

Description

Converts all RUnit tests in a package to testthat tests, and writes them out to a file.

Usage

```
convert_package_tests(pkg, test_dir = "inst/tests",
  test_file_regexp = "^runit.+\\.\\.[rR]", test_func_regexp = "^test.+\"",
  testthat_files = stdout(), ...)
```

```
## S3 method for class 'package'
```

```
convert_package_tests(pkg, test_dir = "inst/tests",
  test_file_regexp = "^runit.+\\.\\.[rR]", test_func_regexp = "^test.+\"",
  testthat_files = stdout(), ...)
```

```
## S3 method for class 'character'
```

```
convert_package_tests(pkg, test_dir = "inst/tests",
  test_file_regexp = "^runit.+\\.\\.[rR]", test_func_regexp = "^test.+\"",
  testthat_files = stdout(), ...)
```

Arguments

pkg	Either a string containing a path to a package or a devtools::package object.
test_dir	Directory inside the package containing test files.
test_file_regexp	Regular expression determining which files are considered to contain tests.
test_func_regexp	Regular expression determining which functions in the tests files are considered to be tests.
testthat_files	Character vector of paths for the output files. Defaults to stdout() to prevent you overwriting your existing test files. Use runit_files to refer to the original RUnit test files.
...	Not currently used.

Value

A list of lists of calls. Each call element is a testthat test. The names of the top level list correspond to the names of the input test files. The names of the sublists correspond to the names of the RUnit test functions in that file. Each list element has an environment containing the original RUnit, stored in attr(, "runit_tests").

Note

RUnit tests will be evaluated when they are read in, so make sure that all your tests pass before you convert them.

See Also

[convert_test_file](#), [convert_test](#)

convert_repeat	<i>Convert a repeat block.</i>
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Description

Converts a repeat call.

Usage

```
convert_repeat(x)
```

Arguments

x A call to the [repeat](#) function.

Value

x An object of class call.

convert_switch	<i>Convert a switch block.</i>
----------------	--------------------------------

Description

Converts a switch call.

Usage

```
convert_switch(x)
```

Arguments

x A call to the [switch](#) function.

Value

x the input, with a warning.

convert_test	<i>Convert an RUnit test to a testthat test</i>
--------------	---

Description

Converts a single RUnit test to a testthat test.

Usage

```
convert_test(runit_test_fn,  
  test_description = assertive::get_name_in_parent(runit_test_fn))
```

Arguments

runit_test_fn An RUnit test function.
test_description A string describing the test, defaulting to the name of the RUnit test function.

Value

A call to `test_that`, containing a testthat test equivalent to the input RUnit test.

See Also

[convert_package_tests](#), [convert_test_file](#)

Examples

```

test_truth <- function()
{
  x <- all(runif(10) > 0)
  checkTrue(x)
}
convert_test(test_truth)
test_equality <- function()
{
  x <- sqrt(1:5)
  expected <- c(1, 4, 9, 16, 25)
  checkEquals(expected, x ^ 4)
}
convert_test(test_equality)
test_error <- function()
{
  checkException("1" + "2")
}
convert_test(test_error)

```

convert_test_file	<i>Convert a file worth of RUnit tests to testthat tests</i>
-------------------	--

Description

Converts all RUnit tests in a file to testthat tests, and writes them out to another file.

Usage

```

convert_test_file(runit_file, test_func_regexp = "^test.+\"",
  testthat_file = stdout())

```

Arguments

runit_file	A path to an file containing RUnit tests.
test_func_regexp	Regular expression determining which functions in the tests files are considered to be tests.
testthat_file	String of path for the output file. Defaults to stdout() to prevent you overwriting your existing test files. See note.

Value

A list of calls to test_that is invisibly returned. This list is also written to an output connection (defaulting to stdout). An environment containing the original RUnit is stored in attr(, "runit_tests").

Note

RUnit tests will be evaluated when they are read in, so make sure that all your tests pass before you convert them.

The `testthat_file` argument can be based upon the `runit_file` argument. For example, if you use the traditional RUnit test file naming strategy, something like `sub("^runit", "testthat", runit_file)` may be appropriate.

See Also

[convert_package_tests](#), [convert_test](#)

Examples

```
tmp <- tempfile("test-convert_test_file")
writeLines(
  "test_truth <- function()
  {
    x <- all(runif(10) > 0)
    checkTrue(x)
  }
  test_equality <- function()
  {
    x <- sqrt(1:5)
    expected <- c(1, 4, 9, 16, 25)
    checkEquals(expected, x ^ 4)
  }
  test_error <- function()
  {
    checkException('1' + '2')
  }",
  tmp
)
convert_test_file(tmp)
unlink(tmp)
```

convert_while

Convert a while block.

Description

Converts a while call.

Usage

```
convert_while(x)
```

Arguments

x A call to the [while](#) function.

Value

x An object of class call.

get_filename	<i>Get a quoted filename</i>
--------------	------------------------------

Description

Gets a single quoted filename from a connection or path.

Usage

```
get_filename(x)
```

Arguments

x A connection object or a character vector of file paths.

Value

A character vector of paths to files.

runittotestthat	<i>Convert RUnit tests to testthat tests.</i>
-----------------	---

Description

testthat has some nice features like test caching that aren't supported by RUnit. This package lets you automatically convert your existing RUnit tests to testthat tests.

Details

There are three functions of interest:

1. [convert_test](#) converts an individual RUnit test to a call to a testthat test.
2. [convert_test_file](#) sources all the tests in a file, converts each one, then outputs them to a file (or file connection; [stdout](#) by default).
3. [convert_package_tests](#) takes a string naming a package, or a `devtools::package` object and loops over the files in 'inst/tests' (or wherever you specify), converting the tests, and outputting to files or [stdout](#).

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