

# Package ‘roxut’

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**Type** Package

**Title** Document Unit Tests Roxygen-Style

**Version** 0.4.0

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**Description** Much as 'roxygen2' allows one to document functions in the same file as the function itself, 'roxut' allows one to write the unit tests in the same file as the function. Once processed, the unit tests are moved to the appropriate directory. Currently supports 'testthat' and 'tinytest' frameworks. The 'roxygen2' package provides much of the infrastructure.

**URL** <https://github.com/bryanhanson/roxut>

**BugReports** <https://github.com/bryanhanson/roxut/issues>

**License** GPL-3

**Encoding** UTF-8

**Depends** roxygen2 (>= 7.1)

**Suggests** tinytest, testthat

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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### Description

Much as roxygen2 allows one to document functions in the same file as the function itself, roxut allows one to write the unit tests in the same file as the function. Once processed, the unit tests are moved to the appropriate directory. Currently supports testthat and tinytest frameworks. The roxygen2 package provides much of the infrastructure.

### Author(s)

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roclet_clean.roclet_tests	<i>Delete Unit Test Files Generated by @tests Tags</i>
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### Description

Delete unit test files generated by @tests tags. Activated when calling roxygenize with clean = TRUE.

### Usage

```
## S3 method for class 'roclet_tests'
roclet_clean(x, base_path)
```

### Arguments

x	A roclet object.
base_path	Path to root of source package.

**Value**

NULL If found, files created by roxut will be deleted.

**Author(s)**

Bryan A. Hanson

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roclet\_output.roclet\_tests

*Write the Results of Processing @tests Tags to Unit Test File*

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**Description**

The contents of the unit tests (lines following the @tests tags) are written verbatim to the appropriate directories (directory depends on whether tinytest or testthat is in use). If there is more than one function and corresponding unit tests in a file, the first unit tests will be in filename.R, the second in filename-1.R etc.

**Usage**

```
## S3 method for class 'roclet_tests'  
roclet_output(x, results, base_path, ...)
```

**Arguments**

x	A roclet object.
results	Value returned from the roclet_process() method.
base_path	Path to root of source package.
...	Other arguments passed downstream. Needed for compatibility, does not appear to be used.

**Value**

Invisibly, a list with the text of the tests. Writes files!

**Author(s)**

Bryan A. Hanson

roclet\_process.roclet\_tests  
*Process @tests Tags*

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**Description**

Processes the blocks containing the @tests tags.

**Usage**

```
## S3 method for class 'roclet_tests'  
roclet_process(x, blocks, env, base_path)
```

**Arguments**

x	A roclet object.
blocks	A list of roxy_block objects.
env	Package environment.
base_path	Path to root of source package.

**Value**

A list.

**Author(s)**

Bryan A. Hanson

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roxy\_tag\_parse.roxy\_tag\_tests  
*Parse @tests Tags*

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**Description**

This function is called once for each @tests tag in a function definition file.

**Usage**

```
## S3 method for class 'roxy_tag_tests'  
roxy_tag_parse(x)
```

**Arguments**

x	A roclet object.
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**Value**

The `x` object is returned, appended with a list `val` containing two elements:

- framework containing the name of the unit test framework in use.
- tests containing the content of the unit tests.

**Author(s)**

Bryan A. Hanson

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tests_roclet	<i>tests_roclet</i>
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**Description**

This roclet automates the creation of unit tests, using `@tests` tags written in the function definition files, and processed using `roxygen2`. The unit tests are written verbatim to the appropriate destination file.

**Usage**

```
tests_roclet()
```

**Value**

A complete roclet.

**Author(s)**

Bryan A. Hanson

**Examples**

```
# In actual use, the test lines would be in your function definition file.
# The results (cat'd here) would be written to the unit test file.
# If the function definition file is myFunc.R then the results
# are written to test-myFunc.R in the appropriate directory
# (the directory depends on whether you are using tinytest or testthat).

tinytest_in <- "' @tests tinytest\n#' # Are these equal?\n#' expect_equal(5.0, 5.0)\nNULL\n"
tinytest_out <- roxygen2::roc_proc_text(tests_roclet(), tinytest_in)
cat(tinytest_out$tinytest, "\n")

testthat_in <- "' @tests testthat\n#' # Are these equal?\n#' expect_equal(5.0, 5.0)\nNULL\n"
testthat_out <- roxygen2::roc_proc_text(tests_roclet(), testthat_in)
cat(testthat_out$testthat, "\n")
```

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