Package 'covr'

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```
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Title Test Coverage for Packages
Version 3.6.1
Description Track and report code coverage for your package and (optionally)
      upload the results to a coverage service like 'Codecov' <a href="https://about.codecov.io">https://about.codecov.io</a> or
      'Coveralls' <a href="https://coveralls.io">https://coveralls.io</a>. Code coverage is a measure of the amount of
      code being exercised by a set of tests. It is an indirect measure of test
      quality and completeness. This package is compatible with any testing
      methodology or framework and tracks coverage of both R code and compiled
      C/C++/FORTRAN code.
URL https://covr.r-lib.org, https://github.com/r-lib/covr
BugReports https://github.com/r-lib/covr/issues
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Imports digest, stats, utils, jsonlite, rex, httr, crayon, withr (>=
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Description

covr tracks and reports code coverage for your package and (optionally) upload the results to a coverage service like 'Codecov' https://about.codecov.io or 'Coveralls' https://coveralls.

io. Code coverage is a measure of the amount of code being exercised by a set of tests. It is an indirect measure of test quality and completeness. This package is compatible with any testing methodology or framework and tracks coverage of both R code and compiled C/C++/FORTRAN code.

Details

A coverage report can be used to inspect coverage for each line in your package. Using report() requires the additional dependencies DT and htmltools.

```
# If run with no arguments `report()` implicitly calls `package_coverage()`
report()
```

Package options

covr uses the following options() to configure behaviour:

- covr.covrignore: A filename to use as an ignore file, listing glob-style wildcarded paths of files to ignore for coverage calculations. Defaults to the value of environment variable COVR_COVRIGNORE, or ".covrignore" if the neither the option nor the environment variable are set.
- covr.exclude_end: Used along with covr.exclude_start, an optional regular expression which ends a line-exclusion region. For more details, see ?exclusions.
- covr.exclude_pattern: An optional line-exclusion pattern. Lines which match the pattern will be excluded from coverage. For more details, see ?exclusions.
- covr.exclude_start: Used along with covr.exclude_end, an optional regular expression which starts a line-exclusion region. For more details, see ?exclusions.
- covr.filter_non_package: If TRUE (the default behavior), coverage of files outside the target package are filtered from coverage output.

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- covr.fix_parallel_mcexit:
- covr.flags:
- covr.gcov: If the appropriate gcov version is not on your path you can use this option to set the appropriate location. If set to "" it will turn off coverage of compiled code.
- covr.gcov_additional_paths:
- covr.gcov_args:
- covr.icov:
- covr.icov_args:
- covr.icov_flags:
- covr.icov_prof:
- covr.rstudio_source_markers: A logical value. If TRUE (the default behavior), source markers are displayed within the RStudio IDE when using zero_coverage.
- covr.record_tests: If TRUE (default NULL), record a listing of top level test expressions and associate tests with covr traces evaluated during the test's execution. For more details, see ?covr.record_tests.
- covr.showCfunctions:

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- Bootstrap contributors (Bootstrap library) [contributor]
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See Also

Useful links:

```
• https://covr.r-lib.org
```

- https://github.com/r-lib/covr
- Report bugs at https://github.com/r-lib/covr/issues

as_coverage

Convert a counters object to a coverage object

Description

Convert a counters object to a coverage object

Usage

```
as_coverage(counters = NULL, ...)
```

Arguments

counters

An environment of covr trace results to convert to a coverage object. If counters is not provided, the covr namespace value . counters is used.

. . . Additional attributes to include with the coverage object.

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```
as_coverage_with_tests
```

Clean and restructure counter tests for a coverage object

Description

For tests produced with options(covr.record_tests), prune any unused records in the \$tests\$tally matrices of each trace and get rid of the wrapping \$tests environment (reassigning with value of \$tests\$tally)

Usage

```
as_coverage_with_tests(counters)
```

Arguments

counters

An environment of covr trace results to convert to a coverage object. If counters is not provided, the covr namespace value . counters is used.

azure

Run covr on a package and output the result so it is available on Azure Pipelines

Description

Run covr on a package and output the result so it is available on Azure Pipelines

Usage

```
azure(
    ...,
    coverage = package_coverage(..., quiet = quiet),
    filename = "coverage.xml",
    quiet = TRUE
)
```

Arguments

arguments passed to package_coverage()
coverage an existing coverage object to submit, if NULL, package_coverage() will be called with the arguments from ...
filename the name of the Cobertura XML file
quiet if FALSE, print the coverage before submission.

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codecov

Run covr on a package and upload the result to codecov.io

Description

Run covr on a package and upload the result to codecov.io

Usage

```
codecov(
    ...,
    coverage = NULL,
    base_url = "https://codecov.io",
    token = NULL,
    commit = NULL,
    branch = NULL,
    pr = NULL,
    flags = NULL,
    quiet = TRUE
)
```

Arguments

	arguments passed to package_coverage()
coverage	an existing coverage object to submit, if NULL, package_coverage() will be called with the arguments from \dots
base_url	Codecov url (change for Enterprise)
token	a codecov upload token, if NULL then following external sources will be checked in this order: $ \\$
	 the environment variable 'CODECOV_TOKEN'. If it is empty, then package will look at directory of the package for a file codecov.yml. File must have codecov section where field token is set to a token that will be used.
commit	explicitly set the commit this coverage result object corresponds to. Is looked up from the service or locally if it is $NULL$.
branch	explicitly set the branch this coverage result object corresponds to, this is looked up from the service or locally if it is $NULL$.
pr	explicitly set the pr this coverage result object corresponds to, this is looked up from the service if it is $NULL$.
flags	A flag to use for this coverage upload see $https://docs.codecov.com/docs/flags$ for details.
quiet	if FALSE, print the coverage before submission.

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Examples

```
## Not run:
codecov(path = "test")
## End(Not run)
```

code_coverage

Calculate coverage of code directly

Description

This function is useful for testing, and is a thin wrapper around file_coverage() because parseData is not populated properly unless the functions are defined in a file.

Usage

```
code_coverage(
  source_code,
  test_code,
  line_exclusions = NULL,
  function_exclusions = NULL,
  ...
)
```

Arguments

Examples

```
source <- "add <- function(x, y) { x + y }"
test <- "add(1, 2) == 3"
code_coverage(source, test)</pre>
```

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coverage_to_list

Convert a coverage dataset to a list

Description

Convert a coverage dataset to a list

Usage

```
coverage_to_list(x = package_coverage())
```

Arguments

Х

a coverage dataset, defaults to running package_coverage().

Value

A list containing coverage result for each individual file and the whole package

coveralls

Run covr on a package and upload the result to coveralls

Description

Run covr on a package and upload the result to coveralls

Usage

```
coveralls(
    ...,
    coverage = NULL,
    repo_token = Sys.getenv("COVERALLS_TOKEN"),
    service_name = Sys.getenv("CI_NAME", "travis-ci"),
    quiet = TRUE
)
```

Arguments

... arguments passed to package_coverage()

coverage an existing coverage object to submit, if NULL, package_coverage() will be

called with the arguments from ...

repo_token The secret repo token for your repository, found at the bottom of your repos-

itory's page on Coveralls. This is useful if your job is running on a service Coveralls doesn't support out-of-the-box. If set to NULL, it is assumed that the

job is running on travis-ci

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service_name the CI service to use, if environment variable 'CI_NAME' is set that is used,

otherwise 'travis-ci' is used.

quiet if FALSE, print the coverage before submission.

covr.record_tests Record Test Traces During Coverage Execution

Description

By setting options(covr.record_tests = TRUE), the result of covr coverage collection functions will include additional data pertaining to the tests which are executed and an index of which tests, at what stack depth, trigger the execution of each trace.

Details

This functionality requires that the package code and tests are installed and sourced with the source. For more details, refer to R options, keep. source, keep. source.pkgs and keep. parse. data.pkgs.

Additional fields

Within the covr result, you can explore this information in two places:

- attr(, "tests"): A list of call stacks, which results in target code execution.
- \$<srcref>\$tests: For each srcref count in the coverage object, a \$tests field is now included which contains a matrix with three columns, "test", "depth" and "i" which specify the test number (corresponding to the index of the test in attr(, "tests"), the stack depth into the target code where the trace was executed, and the order of execution for each test.

Test traces

The content of test traces are dependent on the unit testing framework that is used by the target package. The behavior is contingent on the available information in the sources kept for the testing files.

Test traces are extracted by the following criteria:

- 1. If any srcref files are are provided by a file within covr's temporary library, all calls from those files are kept as a test trace. This will collect traces from tests run with common testing frameworks such as testthat and RUnit.
- 2. Otherwise, as a conservative fallback in situations where no source references are found, or when none are from within the temporary directory, the entire call stack is collected.

These calls are subsequently subset for only those up until the call to covr's internal count function, and will always include the last call in the call stack prior to a call to count.

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Examples

```
fcode <- '
f <- function(x) {</pre>
 if (x)
   f(!x)
 else
   FALSE
options(covr.record_tests = TRUE)
cov <- code_coverage(fcode, "f(TRUE)")</pre>
# extract executed test code for the first test
tail(attr(cov, "tests")[[1L]], 1L)
# [[1]]
# f(TRUE)
# extract test itemization per trace
cov[[3]][c("srcref", "tests")]
# $srcref
# f(!x)
#
# $tests
# test depth i
#[1,] 1 24
# reconstruct the code path of a test by ordering test traces by [,"i"]
lapply(cov, `[[`, "tests")
# $\source.Ref2326138c55:4:6:4:10:6:10:4:4\
     test depth i
#[1,] 1 1 2
# $`source.Ref2326138c55:3:8:3:8:8:3:3`
     test depth i
# [1,] 1 1 1
# [2,] 1
              2 3
# $`source.Ref2326138c55:6:6:6:10:6:10:6:6`
# test depth i
#[1,] 1 24
```

 ${\tt environment_coverage} \quad \textit{Calculate coverage of an environment}$

Description

Calculate coverage of an environment

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Usage

```
environment_coverage(
  env = parent.frame(),
  test_files,
  line_exclusions = NULL,
  function_exclusions = NULL)
```

Arguments

env The environment to be instrumented.

test_files Character vector of test files with code to test the functions

line_exclusions

a named list of files with the lines to exclude from each file.

function_exclusions

a vector of regular expressions matching function names to exclude. Example print\\\. to match print methods.

exclusions

Exclusions

Description

covr supports a couple of different ways of excluding some or all of a file.

Line Exclusions

The line_exclusions argument to package_coverage() can be used to exclude some or all of a file. This argument takes a list of filenames or named ranges to exclude.

Function Exclusions

Alternatively function_exclusions can be used to exclude R functions based on regular expression(s). For example print\\.* can be used to exclude all the print methods defined in a package from coverage.

Exclusion Comments

In addition you can exclude lines from the coverage by putting special comments in your source code. This can be done per line or by specifying a range. The patterns used can be specified by the exclude_pattern, exclude_start, exclude_end arguments to package_coverage() or by setting the global options covr.exclude_pattern, covr.exclude_start, covr.exclude_end.

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Examples

```
## Not run:
# exclude whole file of R/test.R
package_coverage(exclusions = "R/test.R")
# exclude lines 1 to 10 and 15 from R/test.R
package_coverage(line_exclusions = list("R/test.R" = c(1:10, 15)))
# exclude lines 1 to 10 from R/test.R, all of R/test2.R
package_coverage(line_exclusions = list("R/test.R" = 1:10, "R/test2.R"))
# exclude all print and format methods from the package.
package_coverage(function_exclusions = c("print\\.", "format\\."))
# single line exclusions
f1 <- function(x) {</pre>
 x + 1 # nocov
}
# ranged exclusions
f2 <- function(x) { # nocov start</pre>
 x + 2
} # nocov end
## End(Not run)
```

file_coverage

Calculate test coverage for sets of files

Description

The files in source_files are first sourced into a new environment to define functions to be checked. Then they are instrumented to track coverage and the files in test_files are sourced.

Usage

```
file_coverage(
  source_files,
  test_files,
  line_exclusions = NULL,
  function_exclusions = NULL,
  parent_env = parent.frame()
)
```

Arguments

source_files Character vector of source files with function definitions to measure coverage test_files Character vector of test files with code to test the functions

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```
line_exclusions
```

a named list of files with the lines to exclude from each file.

function_exclusions

a vector of regular expressions matching function names to exclude. Example print\\. to match print methods.

parent_env

The parent environment to use when sourcing the files.

Examples

```
# For the purpose of this example, save code containing code and tests to files
cat("add <- function(x, y) { x + y }", file="add.R")
cat("add(1, 2) == 3", file="add_test.R")

# Use file_coverage() to calculate test coverage
file_coverage(source_files = "add.R", test_files = "add_test.R")

# cleanup
file.remove(c("add.R", "add_test.R"))</pre>
```

file_report

A coverage report for a specific file

Description

A coverage report for a specific file

Usage

```
file_report(
  x = package_coverage(),
  file = NULL,
  out_file = file.path(tempdir(), paste0(get_package_name(x), "-file-report.html")),
  browse = interactive()
)
```

Arguments

x a coverage dataset, defaults to running package_coverage().

file The file to report on, if NULL, use the first file in the coverage output.

out_file The output file

browse whether to open a browser to view the report.

function_coverage 15

function	coverage
TUNCLION	COVELAGE

Calculate test coverage for a specific function.

Description

Calculate test coverage for a specific function.

Usage

```
function_coverage(fun, code = NULL, env = NULL, enc = parent.frame())
```

Arguments

fun name of the function. code expressions to run.

env environment the function is defined in.

enc the enclosing environment which to run the expressions.

Examples

```
add <- function(x, y) { x + y }
function_coverage(fun = add, code = NULL) # 0% coverage
function_coverage(fun = add, code = add(1, 2) == 3) # 100% coverage</pre>
```

gitlab

Run covr on package and create report for GitLab

Description

Utilize internal GitLab static pages to publish package coverage. Creates local covr report in a package subdirectory. Uses the pages GitLab job to publish the report.

Usage

```
gitlab(..., coverage = NULL, file = "public/coverage.html", quiet = TRUE)
```

Arguments

... arguments passed to package_coverage()

coverage an existing coverage object to submit, if NULL, package_coverage() will be

called with the arguments from . . .

file The report filename.

quiet if FALSE, print the coverage before submission.

in_covr

has_srcref

Is the source bound to the expression

Description

Is the source bound to the expression

Usage

```
has_srcref(expr)
```

Arguments

expr

A language object which may have a srcref attribute

Value

A logical value indicating whether the language object has source

in_covr

Determine if code is being run in covr

Description

covr functions set the environment variable R_COVR when they are running. in_covr() returns TRUE if this environment variable is set and FALSE otherwise.

Usage

```
in_covr()
```

Examples

```
if (require(testthat)) {
  testthat::skip_if(in_covr())
}
```

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is_covr_count_call

Is the expression a call to covr:::count

Description

Is the expression a call to covr:::count

Usage

```
is_covr_count_call(expr)
```

Arguments

expr

A language object

Value

A logical value indicating whether the object is a call to covr:::count.

```
is_current_test_finished
```

Returns TRUE if we've moved on from test reflected in .current_test

Description

Quickly dismiss the need to update the current test if we can. To test if we're still in the last test, check if the same srcref (or call, if source is not kept) exists at the last recorded calling frame prior to entering a covr trace. If this has changed, do a more comprehensive test to see if any of the test call stack has changed, in which case we are onto a new test.

Usage

```
is_current_test_finished()
```

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new_test_counter

Initialize a new test counter for a coverage trace

Description

Initialize a test counter, a matrix used to tally tests, their stack depth and the execution order as the trace associated with key is hit. Each test trace is an environment, which allows assignment into a pre-allocated tests matrix with minimall reallocation.

Usage

```
new_test_counter(key)
```

Arguments

key

generated with key()

Details

The tests matrix has columns tests, depth and i, corresponding to the test index (the index of the associated test in .counters\$tests), the stack depth when the trace is evaluated and the number of traces that have been hit so far during test evaluation.

package_coverage

Calculate test coverage for a package

Description

This function calculates the test coverage for a development package on the path. By default it runs only the package tests, but it can also run vignette and example code.

Usage

```
package_coverage(
  path = ".",
  type = c("tests", "vignettes", "examples", "all", "none"),
  combine_types = TRUE,
  relative_path = TRUE,
  quiet = TRUE,
  clean = TRUE,
  line_exclusions = NULL,
  function_exclusions = NULL,
  code = character(),
  install_path = temp_file("R_LIBS"),
   ...,
  exclusions,
  pre_clean = TRUE
)
```

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Arguments

path file path to the package.

type run the package 'tests', 'vignettes', 'examples', 'all', or 'none'. The default is

'tests'.

erage object. If FALSE separate objects are used for each type of coverage.

relative_path whether to output the paths as relative or absolute paths. If a string, it is inter-

preted as a root path and all paths will be relative to that root.

quiet whether to load and compile the package quietly, useful for debugging errors.

clean whether to clean temporary output files after running, mainly useful for debug-

ging errors.

line_exclusions

a named list of files with the lines to exclude from each file.

function_exclusions

a vector of regular expressions matching function names to exclude. Example

print\\\. to match print methods.

code A character vector of additional test code to run.

install_path The path the instrumented package will be installed to and tests run in. By

default it is a path in the R sessions temporary directory. It can sometimes be

useful to set this (along with clean = FALSE) to help debug test failures.

... Additional arguments passed to tools::testInstalledPackage().

exclusions 'Deprecated', please use 'line_exclusions' instead.

pre_clean whether to delete all objects present in the src directory before recompiling

Details

This function uses tools::testInstalledPackage() to run the code, if you would like to test your package in another way you can set type = "none" and pass the code to run as a character vector to the code parameter.

Parallelized code using **parallel**'s mcparallel() needs to use a patched parallel:::mcexit. This is done automatically if the package depends on **parallel**, but can also be explicitly set using the environment variable COVR_FIX_PARALLEL_MCEXIT or the global option covr.fix_parallel_mcexit.

See Also

exclusions() For details on excluding parts of the package from the coverage calculations.

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percent_coverage

Provide percent coverage of package

Description

Calculate the total percent coverage from a coverage result object.

Usage

```
percent_coverage(x, ...)
```

Arguments

x the coverage object returned from package_coverage()... additional arguments passed to tally_coverage()

Value

The total percentage as a numeric(1).

print.coverage

Print a coverage object

Description

Print a coverage object

Usage

```
## S3 method for class 'coverage'
print(x, group = c("filename", "functions"), by = "line", ...)
```

Arguments

x the coverage object to be printed
 group whether to group coverage by filename or function
 by whether to count coverage by line or expression

... additional arguments ignored

Value

The coverage object (invisibly).

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report

Display covr results using a standalone report

Description

Display covr results using a standalone report

Usage

```
report(
  x = package_coverage(),
  file = file.path(tempdir(), paste0(get_package_name(x), "-report.html")),
  browse = interactive()
)
```

Arguments

x a coverage dataset, defaults to running package_coverage().

file The report filename.

browse whether to open a browser to view the report.

Examples

```
## Not run:
x <- package_coverage()
report(x)
## End(Not run)</pre>
```

tally_coverage

Tally coverage by line or expression

Description

Tally coverage by line or expression

Usage

```
tally_coverage(x, by = c("line", "expression"))
```

Arguments

```
x the coverage object returned from package_coverage() by whether to tally coverage by line or expression
```

Value

a data. frame of coverage tallied by line or expression.

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to_cobertura

Create a Cobertura XML file

Description

This functionality requires the xml2 package be installed.

Usage

```
to_cobertura(cov, filename = "cobertura.xml")
```

Arguments

cov the coverage object returned from package_coverage()

filename the name of the Cobertura XML file

Author(s)

Willem Ligtenberg

to_sonarqube

Create a SonarQube Generic XML file for test coverage according to https://docs.sonarqube.org/latest/analysis/generic-test/ Based on cobertura.R

Description

This functionality requires the xml2 package be installed.

Usage

```
to_sonarqube(cov, filename = "sonarqube.xml")
```

Arguments

cov the coverage object returned from package_coverage()

filename the name of the SonarQube Generic XML file

Author(s)

Talkdesk Inc.

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truncate_call

Truncate call objects to limit the number of arguments

Description

A helper to circumvent R errors when deserializing large call objects from Rds. Trims the number of arguments in a call object, and replaces the last argument with a <truncated> symbol.

Usage

```
truncate_call(call_obj, limit = 10000)
```

Arguments

call_obj A (possibly large) call object limit A call length limit to impose

Value

The call_obj with arguments trimmed

value

Retrieve the value from an object

Description

Retrieve the value from an object

Usage

```
value(x, ...)
```

Arguments

x object from which to retrieve the value
... additional arguments passed to methods

24 zero_coverage

zero_coverage

Provide locations of zero coverage

Description

When examining the test coverage of a package, it is useful to know if there are any locations where there is 0 test coverage.

Usage

```
zero_coverage(x, ...)
```

Arguments

```
x a coverage object returned package_coverage()... additional arguments passed to tally_coverage()
```

Details

if used within RStudio this function outputs the results using the Marker API.

Value

A data.frame with coverage data where the coverage is 0.

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