

# Package ‘covtracer’

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**Title** Contextualizing Tests

**Version** 0.0.2

**Description** Dissects a package environment or 'covr' coverage object in order to cross reference tested code with the lines that are evaluated, as well as linking those evaluated lines to the documentation that they are described within. Connecting these three pieces of information provides a mechanism of linking tests to documented behaviors.

**URL** <https://github.com/genentech/covtracer>

**BugReports** <https://github.com/genentech/covtracer/issues>

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---

as.data.frame.list\_of\_srcref

*Coerce a list\_of\_srcref object to a data.frame*

---

### Description

Coerce a list\_of\_srcref object to a data.frame

**Usage**

```
## S3 method for class 'list_of_srcref'
as.data.frame(
  x,
  ...,
  use.names = TRUE,
  expand.srcref = FALSE,
  row.names = NULL
)
```

**Arguments**

x	A list_of_srcref object
...	Additional arguments unused
use.names	A logical indicating whether the names of x should be used to create a name column.
expand.srcref	A logical indicating whether to expand the components of srcref objects into separate columns.
row.names	NULL or a single integer or character string specifying a column to be used as row names, or a character or integer vector giving the row names for the data frame.

**Value**

A data.frame with one record per srcref and variables:

**name** Names of the srcref objects, passed using the names of x if use.names = TRUE

**srcref** srcref objects if expand.srcrefs = FALSE

**srcfile, line1, byte1, line2, col1, col2, parsed1, parsed2** The srcref file location if it can be determined. If an absolute path can't be found, only the base file name provided in the srcref object and the numeric components of the srcref objects if expand.srcrefs = TRUE

**Examples**

```
pkg <- system.file("examplepkg", package = "covtracer")
install.packages(
  pkg,
  type = "source",
  repos = NULL,
  quiet = TRUE,
  INSTALL_opts = "--with-keep.source"
)
as.data.frame(pkg_srcrefs("examplepkg"))
```

---

as.package	<i>A simple alternative to devtools::as.package</i>
------------	---

---

**Description**

Functionally identical to devtools' as.package, but without interactive options for package creation.

**Usage**

```
as.package(x)
```

**Arguments**

x                    A package object to coerce

**Value**

A package object

**Note**

Code inspired by devtools load\_pkg\_description with very minor edits to further reduce devtools dependencies.

---

as_list_of_srcref	<i>Create an S3 list of srcref objects</i>
-------------------	--

---

**Description**

Create an S3 list of srcref objects

**Usage**

```
as_list_of_srcref(x)

## S3 method for class 'environment'
as_list_of_srcref(x)

## S3 method for class 'list'
as_list_of_srcref(x)
```

**Arguments**

x                    A list or single srcref to coerce to a list\_of\_srcref

**Value**

A list\_of\_srcref class object

---

as_test_desc	<i>Wrap object in test description derivation data</i>
--------------	--

---

**Description**

Wrap object in test description derivation data

Adds "testthat" style

**Usage**

```
as_test_desc(x, type = "call")
```

```
as_testthat_desc(x)
```

**Arguments**

x                   A test description string to bind style data to

type                A type class to attribute to the test description. Defaults to "call".

**Value**

A test\_description subclass object with additional style attribute indicating how the test description was derived.

---

coverage_check_has_recorded_tests	<i>Check that the coverage object retains testing information</i>
-----------------------------------	---

---

**Description**

Check whether the coverage object has expected fields produced when coverage was captured with `option(covr.record_tests = TRUE)`, throwing an error if it was not.

**Usage**

```
coverage_check_has_recorded_tests(coverage, warn = TRUE)
```

**Arguments**

coverage           a `covr` coverage object

warn               Whether to warn when it is uncertain whether the tests were recorded. It may be uncertain if tests were recorded if there are no tested R code traces.

**Value**

Used for side-effects of emitting an error when a coverage object does not contain recorded traces, or a warning when a coverage object appears to have no tests.

**See Also**

Other coverage\_tests: [coverage\\_get\\_tests\(\)](#), [coverage\\_has\\_recorded\\_tests\(\)](#)

---

coverage\_get\_tests      *Retrieve test traces from a coverage object*

---

**Description**

Assumes the coverage object was produced while `option(cover.record_tests = TRUE)`.

**Usage**

```
coverage_get_tests(coverage)
```

**Arguments**

coverage      a `cover` coverage object

**Value**

A list of tests evaluated when using `cover`

**See Also**

Other coverage\_tests: [coverage\\_check\\_has\\_recorded\\_tests\(\)](#), [coverage\\_has\\_recorded\\_tests\(\)](#)

---

coverage\_has\_recorded\_tests      *Test that the coverage object retains testing information*

---

**Description**

Test whether the coverage object has expected fields produced when coverage was captured with `option(cover.record_tests = TRUE)`.

**Usage**

```
coverage_has_recorded_tests(coverage)
```

**Arguments**

coverage      a `covr` coverage object

**Value**

A logical value, indicating whether the coverage object has recorded tests, or NA when it does not appear to have traced any test code.

**See Also**

Other coverage\_tests: [coverage\\_check\\_has\\_recorded\\_tests\(\)](#), [coverage\\_get\\_tests\(\)](#)

expr\_str

*Convert an expression, call or symbol to a single-line string***Description**

Convert an expression, call or symbol to a single-line string

**Usage**

```
expr_str(ref)
```

**Arguments**

ref              a `scref`

**Value**

The given expression, formatted as a string with prefixes for symbols and generics.

flat\_map\_screfs

*Map screfs over an iterable object, Filtering non-scref results***Description**

Map screfs over an iterable object, Filtering non-scref results

**Usage**

```
flat_map_screfs(xs, ns = NULL, breadcrumbs = character())
```

**Arguments**

xs	Any iterable object
ns	A character namespace name to attribute to objects in xs. If xs objects themselves have namespaces attributed already to them, the namespace will not be replaced.
breadcrumbs	Recursive methods are expected to propegate a vector of "breadcrumbs" (a character vector of namespace names encountered while traversing the namespace used as a memory of what we've seen already), which is used for short-circuiting recursive environment traversal.

**Value**

A list of srcrefs

---

`format.list_of_srcref` *Format a list\_of\_srcref object*

---

**Description**

Format list\_of\_srcref as character

**Usage**

```
## S3 method for class 'list_of_srcref'
format(x, ..., full.names = FALSE, full.num = FALSE)
```

**Arguments**

x	A list_of_srcref object
...	Additional arguments unused
full.names	A logical value indicating whether to use full file paths when formatting srcrefs.
full.num	A logical value indicating whether to use all numeric srcref components when formatting srcrefs.

**Value**

A character vector of formatted strings

---

getSrcFilepath      *Get the full path to the srcref file*

---

**Description**

Get the full path to the srcref file

**Usage**

getSrcFilepath(x)

**Arguments**

x                      A srcref or list\_of\_srcref object

**Value**

A character vector of source file paths.

---

get\_namespace\_object\_names  
*Get namespace exports, filtering methods tables and definitions*

---

**Description**

Get namespace exports, filtering methods tables and definitions

**Usage**

get\_namespace\_object\_names(ns)

**Arguments**

ns                      A namespace object

**Value**

The names of exported objects, filtering internal method tables and metadata.

---

is_srcref	<i>Test whether an object is a srcref object</i>
-----------	--

---

**Description**

Test whether an object is a srcref object

**Usage**

```
is_srcref(x)
```

**Arguments**

x	Any object
---	------------

**Value**

A logical indicating whether object is a srcref

---

join_on_containing_srcrefs	<i>Join srcref data.frames by intersection of srcref spans</i>
----------------------------	--

---

**Description**

References to source code are defined by the source code line and column span of the relevant source code. This function takes data frames containing that information to pair source code in one data frame to source code from another. In this case, source code from the left hand data frame is paired if it is entirely contained within a record of source code in the right hand data frame.

**Usage**

```
join_on_containing_srcrefs(x, y, by = c(srcref = "srcref"))
```

**Arguments**

x	A data.frame, as produced by as.data.frame applied to a list_of_srcref, against which y should be joined.
y	A data.frame, as produced by as.data.frame applied to a list_of_srcref, joining data from srcrefs data which encompasses srcrefs from x.
by	A named character vector of column names to use for the merge. The name should be the name of the column from the left data.frame containing a list_of_srcref column, and the value should be the name of a column from the right data.frame containing a list_of_srcref column.

**Value**

A data.frame of x joined on y by spanning scref

---

match\_containing\_screfs

*Match screfs against screfs that contain them*

---

**Description**

Provided two lists of scref objects, find the first screfs in r that entirely encapsulate each respective scref in l, returning a list of indices of screfs in r for each scref in l.

**Usage**

```
match_containing_screfs(l, r)
```

**Arguments**

l	A list_of_scref object
r	A list_of_scref object

**Value**

A integer vector of the first index in r that fully encapsulate the respective element in l

---

new\_empty\_test\_trace\_tally

*Build an empty covr-style test trace mapping*

---

**Description**

Build an empty covr-style test trace mapping

**Usage**

```
new_empty_test_trace_tally()
```

**Value**

An empty test-trace matrix, as provided by covr

---

obj\_namespace\_name      *Get namespace export namespace name*

---

### Description

For most objects, this will be identical to the namespace name provided, but reexports will retain their originating package's namespace name. This helper function helps to expose this name to determine which exports are reexports.

### Usage

```
obj_namespace_name(x, ns)
```

### Arguments

x                      A value to find within namespace ns  
 ns                     A package namespace

### Value

A character string representing a namespace or similar

---

package\_check\_has\_keep\_source  
*Verify that the package collection contains srcref information*

---

### Description

Test whether the package object collection contains srcref attributes.

### Usage

```
package_check_has_keep_source(env)
```

### Arguments

env                    A package namespace environment or iterable collection of package objects

### Value

Used for side effect of throwing an error when a package was not installed with srcrefs.

---

`pkg_srcrefs`*Extract all the srcref objects of objects within a package namespace*

---

## Description

Extract all the srcref objects of objects within a package namespace

## Usage

```
pkg_srcrefs(x)

## S3 method for class 'environment'
pkg_srcrefs(x)

## S3 method for class 'character'
pkg_srcrefs(x)

## S3 method for class 'coverage'
pkg_srcrefs(x)
```

## Arguments

`x` A [package\\_coverage](#) coverage object, from which the name of the package used is extracted.

## Value

A `list_of_srcref`

## See Also

`as.data.frame.list_of_srcref`

Other srcrefs: [test\\_srcrefs\(\)](#), [trace\\_srcrefs\(\)](#)

## Examples

```
pkg <- system.file("examplepkg", package = "covtracer")
install.packages(
  pkg,
  type = "source",
  repos = NULL,
  quiet = TRUE,
  INSTALL_opts = "--with-keep.source"
)
pkg_srcrefs("examplepkg")
```

---

pkg\_srcrefs\_df      *Create a data.frame of package srcref objects*

---

### Description

Create a data.frame of package srcref objects

### Usage

```
pkg_srcrefs_df(x)
```

### Arguments

x                    A [package\\_coverage](#) coverage object, from which the name of the package used is extracted.

### Value

A data.frame with a record for each source code block with variables:

**name** A character Rd alias for the package object

**srcref** The srcref of the associated package source code

### See Also

srcrefs test\_trace\_mapping

Other srcrefs\_df: [test\\_srcrefs\\_df\(\)](#), [trace\\_srcrefs\\_df\(\)](#)

### Examples

```
pkg <- system.file("examplepkg", package = "covtracer")
install.packages(
  pkg,
  type = "source",
  repos = NULL,
  quiet = TRUE,
  INSTALL_opts = "--with-keep.source"
)
pkg_srcrefs_df("examplepkg")
```

---

Rd_df	<i>Create a tabular representation of man file information</i>
-------	--

---

**Description**

Provides Rd index info with a few additional columns of information about each exported object. Returns one record per documented object, even if multiple objects alias to the same documentation file.

**Usage**

```
Rd_df(x)
```

**Arguments**

x                    A package object to coerce

**Value**

A data.frame of documented object information with variables:

**index** A numeric index of documentation files associated with documentation objects

**file** A character filename of the Rd file in the "man" directory

**filepath** A character file path of the Rd file in the "man" directory

**alias** character object names which are aliases for the documentation in filepath

**is\_exported** A logical indicator of whether the aliased object is exported from the package namespace

**doctype** A character representing the Rd docType field.

**Examples**

```
package_source_dir <- system.file("examplepkg", package = "covtracer")
Rd_df(package_source_dir)
```

---

srcrefs	<i>Retrieve srcrefs</i>
---------	-------------------------

---

**Description**

This function takes a code collection and returns a list of related srcref objects with list names that associate the srcref with a name or alias that could be used to find documentation. Code collections include structures such as package namespaces, environments, function definitions, methods tables or class generators - any object which encapsulates a single or set of srcref objects.

**Usage**

```

srcrefs(x, ...)

## Default S3 method:
srcrefs(x, ..., srcref_names = NULL, breadcrumbs = character())

## S3 method for class 'list'
srcrefs(x, ..., srcref_names = NULL, breadcrumbs = character())

## S3 method for class 'namespace'
srcrefs(x, ..., breadcrumbs = character())

## S3 method for class 'environment'
srcrefs(x, ..., breadcrumbs = character())

## S3 method for class 'R6ClassGenerator'
srcrefs(x, ..., srcref_names = NULL, breadcrumbs = character())

## S3 method for class 'standardGeneric'
srcrefs(x, ..., srcref_names = NULL)

## S3 method for class 'nonstandardGenericFunction'
srcrefs(x, ..., srcref_names = NULL)

## S3 method for class 'MethodDefinition'
srcrefs(x, ..., srcref_names = NULL)

```

**Arguments**

<code>x</code>	An object to source srcrefs from
<code>...</code>	Additional arguments passed to methods
<code>srcref_names</code>	An optional field used to supercede any discovered object names when choosing which names to provide in the returned list.
<code>breadcrumbs</code>	Recursive methods are expected to propegate a vector of "breadcrumbs" (a character vector of namespace names encountered while traversing the namespace used as a memory of what we've seen already), which is used for short-circuiting recursive environment traversal.

**Details**

For most objects, this is a one-to-one mapping of exported object names to their `srcref`, just like you would get using `getNamespace()`. However, for classes and methods, this can be a one-to-many mapping of related documentation to the multiple `srcrefs` that are described there. This is the case for S3 generics, S4 objects and R6 objects.

Objects without any related `srcrefs`, such as any datasets or objects created at package build time will be omitted from the results.

**Value**

A list of srcref objects. Often, has a length of 1, but can be larger for things like environments, namespaces or generic methods. The names of the list reflect the name of the Rd name or alias that could be used to find information related to each srcref. Elements of the list will have attribute "namespace" denoting the source environment namespace if one can be determined for the srcref object.

**Examples**

```
# examples use `with` to execute within namespace as function isn't exported
ns <- getNamespace("covtracer")

# load and extract srcrefs for a package
with(ns, srcrefs(getNamespace("covtracer")))

# extract srcrefs for functions
with(ns, srcrefs(srcrefs))
```

---

`srcref_expr`*Parse the expression associated with a srcref*

---

**Description**

Parse the expression associated with a srcref

**Usage**

```
srcref_expr(ref)
```

**Arguments**

ref            a srcref

**Value**

A parsed srcref object

---

srcref_str	<i>Convert a srcref into a string</i>
------------	---------------------------------------

---

**Description**

Convert a srcref into a string

**Usage**

```
srcref_str(ref)
```

**Arguments**

ref	a srcref
-----	----------

**Value**

A string representing the srcref

---

test_description	<i>Parse a test description from the calling expression</i>
------------------	---

---

**Description**

In the general case, a simple indicator of the source file and line number is used as a test description. There are some special cases where more descriptive information can be extracted:

**Usage**

```
test_description(x)
```

**Arguments**

x	a unit test call stack or expression.
---	---------------------------------------

**Details**

`testthat` If the test used `test_that`, then the description (desc parameter) is extracted and evaluated if need be to produce a descriptive string. Nested calls to `test_that` currently return the outermost test description, although this behavior is subject to change.

**Value**

A string that describes the test. If possible, this will be a written description of the test, but will fall back to the test call as a string in cases where no written description can be determined.

---

test\_description\_test\_that  
*Parse the test description from a test\_that call*

---

**Description**

Parse the test description from a test\_that call

**Usage**

```
test_description_test_that(x, ...)
```

**Arguments**

x	A test_that call object
...	Additional arguments unused

**Value**

A character description, parsed from a test\_that::test\_that call

---

test\_description\_test\_that\_describe  
*Parse the test description from a describe call*

---

**Description**

Parse the test description from a describe call

**Usage**

```
test_description_test_that_describe(x, ...)
```

**Arguments**

x	A test_that::describe call object
...	Additional arguments unused

**Value**

A character description, parsed from a test\_that::describe call

---

```
test_description_test_that_describe_it
    Parse the test description from a it call
```

---

**Description**

Parse the test description from a it call

**Usage**

```
test_description_test_that_describe_it(x, ...)
```

**Arguments**

x	A <code>test_that::it</code> call object
...	Additional arguments unused

**Value**

A character description, parsed from a `test_that::it` call

---

```
test_srcrefs    Extract test srcref objects
```

---

**Description**

Extract test srcref objects

**Usage**

```
test_srcrefs(x)

## S3 method for class 'coverage'
test_srcrefs(x)
```

**Arguments**

x	A <a href="#">package_coverage</a> coverage object, from which the test srcrefs are extracted.
---	--

**Value**

A `list_of_srcref`

**See Also**

as.data.frame.list\_of\_srcref

Other srcrefs: [pkg\\_srcrefs\(\)](#), [trace\\_srcrefs\(\)](#)

**Examples**

```
options(covr.record_tests = TRUE)
pkg_path <- system.file("examplepkg", package = "covtracer")
cov <- covr::package_coverage(pkg_path)
test_srcrefs(cov)
```

---

test_srcrefs_df	<i>Create a data.frame of coverage test srcref objects</i>
-----------------	--

---

**Description**

Extract unit test srcrefs from a [coverage](#) object. A test name will be derived from the test source code, preferably from a written annotation, but otherwise falling back to using a code snippet. srcrefs are unique for each expression executed within a testing suite.

**Usage**

```
test_srcrefs_df(x)
```

**Arguments**

x                    A [package\\_coverage](#) coverage object, from which the name of the package used is extracted.

**Value**

A data.frame of test srcrefs extracted from a coverage object. Contains one record for each srcref with variables:

**name** A character test description. For testthat tests, the desc parameter will be used, otherwise a snippet of code will be used for the test name

**srcref** A srcref object describing the location of the test

**test\_type** A character indicating the structure of the test. One of "testthat", "call" or NULL

**See Also**

srcrefs test\_trace\_mapping

Other srcrefs\_df: [pkg\\_srcrefs\\_df\(\)](#), [trace\\_srcrefs\\_df\(\)](#)

**Examples**

```
options(covr.record_tests = TRUE)
pkg_path <- system.file("examplepkg", package = "covtracer")
cov <- covr::package_coverage(pkg_path)
test_srcrefs_df(cov)
```

---

test_trace_df	<i>Build a traceability matrix that links documented behaviors to unit tests</i>
---------------	--

---

**Description**

Intercept unit test coverage reports and process results to link evaluated functions to the unit tests which trigger their evaluation. In doing so, we can then link the associated function documentation of each object to the tests that triggered their evaluation as a way of reusing existing documentation to generate specifications.

**Usage**

```
test_trace_df(x, ...)

## S3 method for class 'coverage'
test_trace_df(
  x,
  ...,
  pkg = as.package(attr(x, "package")$path),
  aggregate_by = sum
)
```

**Arguments**

x	A package object, name, source code path or coverage result to use as the bases of tracing tests. Coverage results must have been produced using <code>options(covr.record_tests = TRUE)</code> .
...	Additional arguments unused
pkg	A package object as produced by <code>as.package</code> , if a specific package object is to be used for inspecting the package namespace.
aggregate_by	NULL or a function by which to aggregate recurring hits counts and direct columns from a test to a trace. If NULL, no aggregation will be applied. (Default sum)

**Value**

A data.frame of tests and corresponding traces

---

test_trace_mapping	Create a data.frame mapping tests to coverage traces
--------------------	--

---

### Description

Extract a matrix used to relate test code to the traces that each test evaluates.

### Usage

```
test_trace_mapping(x)
```

### Arguments

**x** A coverage object produced with `options(covr.record_tests = TRUE)`.

### Value

A data.frame with one record for each line of code executed, with variables:

**test** The index of the test that was executed, reflecting the order in which tests are executed

**depth** The call stack depth when the coverage trace was evaluated

**i** The index of the expression evaluated by each test. This can be used to recover an order of trace execution for a given test index

**trace** The index of the coverage trace that was evaluated

### See Also

`srcrefs_df` `srcrefs`

### Examples

```
options(covr.record_tests = TRUE)
pkg_path <- system.file("examplepkg", package = "covtracer")
cov <- covr::package_coverage(pkg_path)
test_trace_mapping(cov)
```

---

trace_srcrefs	<i>Extract srcref objects from coverage object traces</i>
---------------	---

---

### Description

Extract srcref objects from coverage object traces

### Usage

```
trace_srcrefs(x)
```

```
## S3 method for class 'coverage'
trace_srcrefs(x)
```

### Arguments

`x` (link[covr]{package\_coverage}) A `covr` coverage object produced with `options(covr.record_tests = TRUE)`.

### Value

A `list_of_srcref`

### See Also

`as.data.frame.list_of_srcref`

Other srcrefs: `pkg_srcrefs()`, `test_srcrefs()`

---

trace_srcrefs_df	<i>Create a data.frame of coverage trace srcref objects</i>
------------------	---

---

### Description

Extract `coverage` traces. Traces are the traced lines of code counted when evaluating code coverage, which are used for counting expression evaluation. Each traced is a unique expression within a package's source code.

### Usage

```
trace_srcrefs_df(x)
```

### Arguments

`x` A `package_coverage` coverage object, from which the name of the package used is extracted.

**Value**

A data.frame, where each record is a trace srcref with variables:

**name** A character identifier. This will use the names of the elements of a `coverage` object, which are srcref "keys".

**srcref** A srcref object of the trace source code location

**See Also**

srcrefs test\_trace\_mapping

Other srcrefs\_df: [pkg\\_srcrefs\\_df\(\)](#), [test\\_srcrefs\\_df\(\)](#)

**Examples**

```
options(covr.record_tests = TRUE)
pkg_path <- system.file("examplepkg", package = "covtracer")
cov <- covr::package_coverage(pkg_path)
trace_srcrefs_df(cov)
```

---

with\_pseudo\_srcref      *For consistency, stub calls with srcref-like attributes*

---

**Description**

Most relevant data can be traced to an existing srcref. However, some data, such as test traces from coverage objects, are likely cleaned up and their srcref files deleted, causing a barrage of warnings any time these objects are printed.

**Usage**

```
with_pseudo_srcref(call, file, lloc)
```

**Arguments**

call	Any code object, most often a call object
file	A filepath to bind as a srcref object
lloc	A srcref-like lloc numeric vector

**Details**

A pseudo\_srcref adds in the srcref data but continues to preserve the expression content. This allows these expression objects to be pretty-printed like srcrefs when included as a list\_of\_srcref data.frame column.

**Value**

A with\_pseudo\_srcref object, mimicking the structure of srcref

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