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Contents
tinyexpect-package
expect_invisible
expect_s3_class
expect_s4_class
expect_type
expect_visible
skip
skip_if_not_installed
skip_on_bioc
skip_on_ci
skip_on_covr
skip_on_cran
skip_on_os
Index 1

2 expect_invisible

tinyexpect-package tinyexpect: What the Package Does (One Line, Title Case)

Description

What the package does (one paragraph).

Author(s)

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Description

Expect Invisible

Usage

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

Arguments

current [R object or expression] Object or expression to be tested

... Ignored

info [character(1L)] Optional user-defined message; must be a single character

string

Value

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

See Also

```
testthat equivalent: testthat::expect_invisible()
withVisible(), invisible()
Other visibility: expect_visible()
```

expect_s3_class 3

Examples

```
f <- \() invisible()
expect_invisible(f())
g <- \() NULL
expect_invisible(g())</pre>
```

expect_s3_class

Expect S3 Object

Description

Check that current is an S3 object that inherits from class

Usage

```
expect_s3_class(current, class, ..., info = NA_character_, exact = FALSE)
```

Arguments

current	[R object or expression] Object or expression to be tested
class	[character] Expected class of current; may optionally pass NA to assert that current is not an object
• • •	Ignored
info	[character(1L)] Optional user-defined message; must be a single character string
exact	[logical(1L)] If TRUE, check that class(current) is identical to class; otherwise, check that current inherits class

Value

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

See Also

```
testthat equivalent: testthat::expect_s3_class()
Other inheritance: expect_s4_class(), expect_type()
```

4 expect_s4_class

Examples

```
expect_s3_class(data.frame(), "data.frame")
expect_s3_class(1L, "integer")
expect_s3_class(1L, NA)

if (requireNamespace("Matrix", quietly = TRUE)) {
   expect_s3_class(Matrix::Matrix(), "Matrix")
}

if (requireNamespace("Matrix", quietly = TRUE)) {
   expect_s3_class(Matrix::Matrix(), NA)
}
```

expect_s4_class

Expect S4 Object

Description

Check that current is an S4 object that is of class class

Usage

```
expect_s4_class(current, class, ..., info = NA_character_)
```

Arguments

current	[R object or expression] Object or expression to be tested
class	[character] Expected class of current; may optionally pass NA to assert that current is not an object
	Ignored
info	[character(1L)] Optional user-defined message; must be a single character string

Value

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

See Also

```
testthat equivalent: testthat::expect_s4_class()
Other inheritance: expect_s3_class(), expect_type()
```

expect_type 5

Examples

```
if (requireNamespace("Matrix", quietly = TRUE)) {
   expect_s4_class(Matrix::Matrix(), "Matrix")
}
expect_s4_class(data.frame(), "data.frame")
expect_s4_class(data.frame(), NA)
```

expect_type

Expect Object Type

Description

Check that typeof(current) is type

Usage

```
expect_type(current, type, ..., info = NA_character_)
```

Arguments

Value

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

See Also

```
testthat equivalent: testthat::expect_type()
Other inheritance: expect_s3_class(), expect_s4_class()
```

```
expect_type(1L, "integer")
expect_type(1.0, "integer")
```

6 expect_visible

expect_visible

Expect Visible

Description

Expect Visible

Usage

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

Arguments

current [R object or expression] Object or expression to be tested

... Ignored

info [character(1L)] Optional user-defined message; must be a single character

string

Value

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

See Also

```
testthat equivalent: testthat::expect_visible()
withVisible()
Other visibility: expect_invisible()
```

```
f <- \() invisible()
expect_visible(f())

g <- \() NULL
expect_visible(g())</pre>
```

skip 7

skip

Stop Testing

Description

Unconditionally stop testing a **tinytest** test file, preventing additional tests in the file from running without triggering a failure. This is the low-level exit function for other skip_() functions in **tinyexpect**

Usage

```
skip(message = "Skipping")
```

Arguments

message

A message describing why the test file is being skipped

Value

If called within a tinytest test, triggers an exit condition; otherwise, returns message

See Also

```
testthat equivalent: testthat::skip()
tinytest::exit_file()
Other "stop testing" functions: skip_if_not_installed(), skip_on_bioc(), skip_on_ci(),
skip_on_covr(), skip_on_cran(), skip_on_os()
```

Examples

skip()

skip_if_not_installed Stop Testing if a Required Package is Not Installed

Description

Conditionally stop testing a **tinytest** test file if a required package is not available or not of a minimum required version

Usage

```
skip_if_not_installed(pkg, minimum_version = NULL, quietly = TRUE)
exit_if_not_installed(pkg, minimum_version = NULL, quietly = TRUE)
```

Arguments

```
pkg Name of package to check for

minimum_version

Optional minimum required version of pkg

quietly Attempt to find the package quietly; passed to requireNamespace()
```

Value

If called within a **tinytest** test and pkg is either not installed or not at least minimum_version, triggers an exit condition; otherwise, returns one of

- A string saying that pkg is not installed
- A string saying that pkg is installed, but not at least minimum_version
- NULL invisibly

"Skip" vs "Exit"

tinyexpect provides both "skip_" and "exit_" versions of "stop testing" functions due to the different philosophies of **tinytest** and **testthat**; in **testthat**, tests are encapsulated by **test_that()** to create smaller testing units within a single test file. As such, if a series of tests need to be passed over for some reason, it makes sense to "skip" a **test_that()** block and move on to the next block

tinytest, however, treats each test file as a testing unit. Each file in inst/tinytest is equivalent to
a testthat test_that() block; as such, if a series of tests need to be passed over for some reason,
it makes sense to "exit" a test file and mnove on to the next file in inst/tinytest

In order to provide compatibility with users transitioning from **testthat** to **tinytest**, and to provide continuity with the **tinytest** philosophy, **tinyexpect** provides both skip_- and exit_- prefixed "stop testing" functions that work identically to one another

See Also

```
testthat equivalent: testthat::skip_if_not_installed()
Other "stop testing" functions: skip(), skip_on_bioc(), skip_on_ci(), skip_on_covr(), skip_on_cran(),
skip_on_os()
```

```
pkg <- paste(sample(letters, size = 7L, replace = TRUE), collapse = "")
skip_if_not_installed(pkg)
skip_if_not_installed("tinyexpect", minimum_version = "99.0.1")</pre>
```

skip_on_bioc 9

skip_on_bioc

Stop Testing on the Bioconductor Build System

Description

Stop Testing on the Bioconductor Build System

Usage

```
skip_on_bioc()
exit_on_bioc()
```

Value

If called within a **tinytest** test running on the Bioconductor Build System, triggers an exit condition; otherwise, either a string saying "On Bioconductor" or NULL invisibly

See Also

```
testthat equivalent: testthat::skip_on_bioc()
Other "stop testing" functions: skip(), skip_if_not_installed(), skip_on_ci(), skip_on_covr(),
skip_on_cran(), skip_on_os()
```

Examples

```
if (requireNamespace("withr", quietly = TRUE)) {
  withr::with_envvar(c(IS_BIOC_BUILD_MACHINE = 'true'), skip_on_bioc())
}
```

skip_on_ci

Stop Testing on CI

Description

Stop Testing on CI

Usage

```
skip_on_ci()
exit_on_ci()
```

10 skip_on_covr

Value

If called within a **tinytest** test running on CI, triggers an exit condition; otherwise, either a string saying "On CI" or NULL invisibly

"Skip" vs "Exit"

tinyexpect provides both "skip_" and "exit_" versions of "stop testing" functions due to the different philosophies of **tinytest** and **testthat**; in **testthat**, tests are encapsulated by **test_that()** to create smaller testing units within a single test file. As such, if a series of tests need to be passed over for some reason, it makes sense to "skip" a **test_that()** block and move on to the next block

tinytest, however, treats each test file as a testing unit. Each file in inst/tinytest is equivalent to a testthat test_that() block; as such, if a series of tests need to be passed over for some reason, it makes sense to "exit" a test file and mnove on to the next file in inst/tinytest

In order to provide compatibility with users transitioning from **testthat** to **tinytest**, and to provide continuity with the **tinytest** philosophy, **tinyexpect** provides both skip_- and exit_- prefixed "stop testing" functions that work identically to one another

See Also

```
testthat equivalent: testthat::skip_on_ci()
Other "stop testing" functions: skip(), skip_if_not_installed(), skip_on_bioc(), skip_on_covr(),
skip_on_cran(), skip_on_os()
```

Examples

```
if (requireNamespace("withr", quietly = TRUE)) {
  withr::with_envvar(c(CI = 'true'), skip_on_ci())
}
```

Description

Stop Testing Under covr

Usage

```
skip_on_covr()
exit_on_covr()
```

Value

If called within a **tinytest** test running under **covr**, triggers an exit condition; otherwise, either a string saying "On covr" or NULL invisibly

skip_on_cran 11

"Skip" vs "Exit"

tinyexpect provides both "skip_" and "exit_" versions of "stop testing" functions due to the different philosophies of **tinytest** and **testthat**; in **testthat**, tests are encapsulated by **test_that()** to create smaller testing units within a single test file. As such, if a series of tests need to be passed over for some reason, it makes sense to "skip" a **test_that()** block and move on to the next block

tinytest, however, treats each test file as a testing unit. Each file in inst/tinytest is equivalent to a testthat test_that() block; as such, if a series of tests need to be passed over for some reason, it makes sense to "exit" a test file and mnove on to the next file in inst/tinytest

In order to provide compatibility with users transitioning from **testthat** to **tinytest**, and to provide continuity with the **tinytest** philosophy, **tinyexpect** provides both skip_- and exit_- prefixed "stop testing" functions that work identically to one another

See Also

```
testthat equivalent: testthat::skip_on_covr()
Other "stop testing" functions: skip(), skip_if_not_installed(), skip_on_bioc(), skip_on_ci(),
skip_on_cran(), skip_on_os()
```

Examples

```
if (requireNamespace("withr", quietly = TRUE)) {
  withr::with_envvar(c(R_COVR = 'true'), skip_on_covr())
}
```

skip_on_cran

Stop Testing on CRAN

Description

Stop Testing on CRAN

Usage

```
skip_on_cran()
exit_on_cran()
```

Value

If called within a **tinytest** test running on CRAN in a non-interactive session, triggers an exit condition; otherwise, either a string saying "On CRAN" or NULL invisibly

skip_on_os

```
"Skip" vs "Exit"
```

tinyexpect provides both "skip_" and "exit_" versions of "stop testing" functions due to the different philosophies of **tinytest** and **testthat**; in **testthat**, tests are encapsulated by **test_that()** to create smaller testing units within a single test file. As such, if a series of tests need to be passed over for some reason, it makes sense to "skip" a **test_that()** block and move on to the next block

tinytest, however, treats each test file as a testing unit. Each file in inst/tinytest is equivalent to a testthat test_that() block; as such, if a series of tests need to be passed over for some reason, it makes sense to "exit" a test file and mnove on to the next file in inst/tinytest

In order to provide compatibility with users transitioning from **testthat** to **tinytest**, and to provide continuity with the **tinytest** philosophy, **tinyexpect** provides both skip_- and exit_- prefixed "stop testing" functions that work identically to one another

See Also

```
testthat equivalent: testthat::skip_on_cran()
Other "stop testing" functions: skip(), skip_if_not_installed(), skip_on_bioc(), skip_on_ci(),
skip_on_covr(), skip_on_os()
```

Examples

```
if (requireNamespace("withr", quietly = TRUE)) {
  withr::with_envvar(c(NOT_CRAN = 'false'), skip_on_cran())
}
```

skip_on_os

Stop Testing on Specific Operating Systems and Architectures

Description

Stop Testing on Specific Operating Systems and Architectures

Usage

```
skip_on_os(os, arch = NULL)
exit_on_os(os, arch = NULL)
```

Arguments

os

Operating system to not test on; choose one or more from:

- "windows"
- "mac"
- "linux"
- "solaris"

skip_on_os

The following OS designations are accepted as synonyms:

- "darwin": accepted in place of "mac"
- "sunos": accepted in place of "solaris"

Pass TRUE to set os to all of the above; this is useful for limiting tests by architecture rather than OS/architecture combos

arch

Optional system architectures to not test on; note that this only applies to operating systems present in os

Value

If called within a **tinytest** test running under os and potentially on an arch system, triggers an exit condition; otherwise, returns one of

- A string saying that the code is running under os
- A string saying that the code is running under os on an arch system
- NULL invisibly

"Skip" vs "Exit"

tinyexpect provides both "skip_" and "exit_" versions of "stop testing" functions due to the different philosophies of **tinytest** and **testthat**; in **testthat**, tests are encapsulated by **test_that()** to create smaller testing units within a single test file. As such, if a series of tests need to be passed over for some reason, it makes sense to "skip" a **test_that()** block and move on to the next block

tinytest, however, treats each test file as a testing unit. Each file in inst/tinytest is equivalent to a testthat test_that() block; as such, if a series of tests need to be passed over for some reason, it makes sense to "exit" a test file and mnove on to the next file in inst/tinytest

In order to provide compatibility with users transitioning from **testthat** to **tinytest**, and to provide continuity with the **tinytest** philosophy, **tinyexpect** provides both skip_- and exit_- prefixed "stop testing" functions that work identically to one another

See Also

```
testthat equivalent: testthat::skip_on_os()
Tools for querying system OS and architecture: Sys.info(), R.version[["arch"]]
Other "stop testing" functions: skip(), skip_if_not_installed(), skip_on_bioc(), skip_on_ci(), skip_on_covr(), skip_on_cran()
```

```
(system <- tolower(Sys.info()[["sysname"]]))
skip_on_os(system)

# Nothing happens if on a different OS
(other <- sample(setdiff(c("windows", "mac", "linux", "solaris"), system), size = 1L))
skip_on_os(other)

# System architectures can be used to fine-tune skips</pre>
```

skip_on_os

(sysarch <- R.version\$arch)
skip_on_os(system, arch = sysarch)</pre>

Index

```
* inheritance
                                                 skip_on_bioc, 7, 8, 9, 10–13
    expect_s3_class, 3
                                                 skip_on_ci, 7–9, 9, 11–13
    expect_s4_class, 4
                                                 skip_on_covr, 7-10, 10, 12, 13
    expect_type, 5
                                                 skip_on_cran, 7-11, 11, 13
* package
                                                 skip_on_os, 7–12, 12
    tinyexpect-package, 2
                                                 Sys.info, 13
* skip
                                                 test_that, 8, 10–13
    skip, 7
                                                 testthat::expect_invisible, 2
    skip_if_not_installed, 7
                                                 testthat::expect_s3_class, 3
    skip_on_bioc, 9
                                                 testthat::expect_s4_class, 4
    skip_on_ci, 9
                                                 testthat::expect_type, 5
    skip_on_covr, 10
                                                 testthat::expect_visible, 6
    skip_on_cran, 11
                                                 testthat::skip, 7
    skip_on_os, 12
                                                 testthat::skip_if_not_installed, 8
* visibility
                                                 testthat::skip_on_bioc,9
    expect_invisible, 2
                                                 testthat::skip_on_ci, 10
    expect_visible, 6
                                                 testthat::skip_on_covr, 11
exit_if_not_installed
                                                 testthat::skip_on_cran, 12
        (skip_if_not_installed), 7
                                                 testthat::skip_on_os, 13
exit_on_bioc (skip_on_bioc), 9
                                                 tinyexpect (tinyexpect-package), 2
exit_on_ci (skip_on_ci), 9
                                                 tinyexpect-package, 2
exit_on_covr(skip_on_covr), 10
                                                 tinytest, 2-6
exit_on_cran (skip_on_cran), 11
                                                 tinytest::exit_file, 7
exit_on_os (skip_on_os), 12
                                                 typeof, 5
expect_invisible, 2, 6
                                                 with Visible, 2, 6
expect_s3_class, 3, 4, 5
expect_s4_class, 3, 4, 5
expect_type, 3, 4, 5
expect_visible, 2, 6
inherits, 3
invisible, 2
non-interactive session, 11
R. version, 13
requireNamespace, 8
skip, 7, 8-13
skip_if_not_installed, 7, 7, 9-13
```