

Package ‘stbl’

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Title Stabilize Function Arguments

Version 0.3.0

Description A set of consistent, opinionated functions to quickly check function arguments, coerce them to the desired configuration, or deliver informative error messages when that is not possible.

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URL <https://stbl.wrangle.zone/>, <https://github.com/wranglezone/stbl>

BugReports <https://github.com/wranglezone/stbl/issues>

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| | |
|-------------|--|
| are_chr_ish | <i>Check if an object can be safely coerced to character</i> |
|-------------|--|

Description

are_chr_ish() is a vectorized predicate function that checks whether each element of its input can be safely coerced to a character vector. are_character_ish() is a synonym of are_chr_ish().

is_chr_ish() is a scalar predicate function that checks if all elements of its input can be safely coerced to a character vector. is_character_ish() is a synonym of is_chr_ish().

Usage

```
are_chr_ish(x, ...)  
  
is_chr_ish(x, ...)  
  
are_character_ish(x, ...)  
  
is_character_ish(x, ...)  
  
## Default S3 method:  
are_chr_ish(x, ..., depth = 1)
```

Arguments

| | |
|-------|---|
| x | The object to check. |
| ... | Arguments passed to methods. |
| depth | (length-1 integer) Current recursion depth. Do not manually set this parameter. |

Value

are_chr_ish() returns a logical vector with the same length as the input. is_chr_ish() returns a length-1 logical (TRUE or FALSE) for the entire vector.

See Also

Other character functions: [specify_chr\(\)](#), [stabilize_chr\(\)](#)

Other check functions: [are_dbl_ish\(\)](#), [are_fct_ish\(\)](#), [are_int_ish\(\)](#), [are_lgl_ish\(\)](#)

Examples

```
are_chr_ish(letters)  
is_chr_ish(letters)  
  
are_chr_ish(1:10)  
is_chr_ish(1:10)  
  
are_chr_ish(list("a", 1, TRUE))  
is_chr_ish(list("a", 1, TRUE))  
  
are_chr_ish(list("a", 1, list(1, 2)))  
is_chr_ish(list("a", 1, list(1, 2)))
```

are_dbl_ish *Check if an object can be safely coerced to double*

Description

are_dbl_ish() is a vectorized predicate function that checks whether each element of its input can be safely coerced to a double vector. are_double_ish() is a synonym of are_dbl_ish().

is_dbl_ish() is a scalar predicate function that checks if all elements of its input can be safely coerced to a double vector. is_double_ish() is a synonym of is_dbl_ish().

Usage

```
are_dbl_ish(x, ...)

is_dbl_ish(x, ...)

are_double_ish(x, ...)

is_double_ish(x, ...)

## S3 method for class 'character'
are_dbl_ish(x, ..., coerce_character = TRUE)

## S3 method for class 'factor'
are_dbl_ish(x, ..., coerce_factor = TRUE)

## Default S3 method:
are_dbl_ish(x, ..., depth = 1)
```

Arguments

| | |
|------------------|---|
| x | The object to check. |
| ... | Arguments passed to methods. |
| coerce_character | (length-1 logical) Should character vectors such as "1" and "2.0" be considered numeric-ish? |
| coerce_factor | (length-1 logical) Should factors with values such as "1" and "2.0" be considered numeric-ish? Note that this package uses the character value from the factor, while <code>as.integer()</code> and <code>as.double()</code> use the integer index of the factor. |
| depth | (length-1 integer) Current recursion depth. Do not manually set this parameter. |

Value

are_dbl_ish() returns a logical vector with the same length as the input. is_dbl_ish() returns a length-1 logical (TRUE or FALSE) for the entire vector.

See Also

Other double functions: [specify_dbl\(\)](#), [stabilize_dbl\(\)](#)

Other check functions: [are_chr_ish\(\)](#), [are_fct_ish\(\)](#), [are_int_ish\(\)](#), [are_lgl_ish\(\)](#)

Examples

```
are_dbl_ish(c(1.0, 2.2, 3.14))
is_dbl_ish(c(1.0, 2.2, 3.14))
```

```
are_dbl_ish(1:3)
is_dbl_ish(1:3)
```

```
are_dbl_ish(c("1.1", "2.2", NA))
is_dbl_ish(c("1.1", "2.2", NA))
```

```
are_dbl_ish(c("a", "1.0"))
is_dbl_ish(c("a", "1.0"))
```

```
are_dbl_ish(list(1, "2.2", "c"))
is_dbl_ish(list(1, "2.2", "c"))
```

```
are_dbl_ish(c(1 + 1i, 1 + 0i, NA))
is_dbl_ish(c(1 + 1i, 1 + 0i, NA))
```

are_fct_ish

Check if an object can be safely coerced to a factor

Description

`are_fct_ish()` is a vectorized predicate function that checks whether each element of its input can be safely coerced to a factor. `are_factor_ish()` is a synonym of `are_fct_ish()`.

`is_fct_ish()` is a scalar predicate function that checks if all elements of its input can be safely coerced to a factor. `is_factor_ish()` is a synonym of `is_fct_ish()`.

Usage

```
are_fct_ish(x, ..., levels = NULL, to_na = character())
```

```
is_fct_ish(x, ...)
```

```
are_factor_ish(x, ..., levels = NULL, to_na = character())
```

```
is_factor_ish(x, ...)
```

```
## Default S3 method:
```

```
are_fct_ish(x, ..., levels = NULL, to_na = character(), depth = 1)
```

Arguments

| | |
|--------|---|
| x | The object to check. |
| ... | Arguments passed to methods. |
| levels | (character) The desired factor levels. |
| to_na | (character) Values to convert to NA. |
| depth | (length-1 integer) Current recursion depth. Do not manually set this parameter. |

Value

are_fct_ish() returns a logical vector with the same length as the input. is_fct_ish() returns a length-1 logical (TRUE or FALSE) for the entire vector.

See Also

Other factor functions: [specify_fct\(\)](#), [stabilize_fct\(\)](#)

Other check functions: [are_chr_ish\(\)](#), [are_dbl_ish\(\)](#), [are_int_ish\(\)](#), [are_lgl_ish\(\)](#)

Examples

```
# When `levels` is `NULL`, atomic vectors are fct_ish, but nested lists are
# not.
are_fct_ish(c("a", 1, NA))
is_fct_ish(c("a", 1, NA))
are_fct_ish(list("a", list("b", "c")))
is_fct_ish(list("a", list("b", "c")))

# When `levels` is specified, values must be in `levels` or `to_na`.
are_fct_ish(c("a", "b", "c"), levels = c("a", "b"))
is_fct_ish(c("a", "b", "c"), levels = c("a", "b"))

# The `to_na` argument allows some values to be treated as `NA`.
are_fct_ish(c("a", "b", "z"), levels = c("a", "b"), to_na = "z")
is_fct_ish(c("a", "b", "z"), levels = c("a", "b"), to_na = "z")

# Factors are also checked against the specified levels.
are_fct_ish(factor(c("a", "b", "c")), levels = c("a", "b"))
is_fct_ish(factor(c("a", "b", "c")), levels = c("a", "b"))
```

are_int_ish

Check if an object can be safely coerced to integer

Description

are_int_ish() is a vectorized predicate function that checks whether each element of its input can be safely coerced to an integer vector. are_integer_ish() is a synonym of are_int_ish().

is_int_ish() is a scalar predicate function that checks if all elements of its input can be safely coerced to an integer vector. is_integer_ish() is a synonym of is_int_ish().

Usage

```

are_int_ish(x, ...)

is_int_ish(x, ...)

are_integer_ish(x, ...)

is_integer_ish(x, ...)

## S3 method for class 'character'
are_int_ish(x, ..., coerce_character = TRUE)

## S3 method for class 'factor'
are_int_ish(x, ..., coerce_factor = TRUE)

## Default S3 method:
are_int_ish(x, ..., depth = 1)

```

Arguments

| | |
|------------------|---|
| x | The object to check. |
| ... | Arguments passed to methods. |
| coerce_character | (length-1 logical) Should character vectors such as "1" and "2.0" be considered numeric-ish? |
| coerce_factor | (length-1 logical) Should factors with values such as "1" and "2.0" be considered numeric-ish? Note that this package uses the character value from the factor, while as.integer() and as.double() use the integer index of the factor. |
| depth | (length-1 integer) Current recursion depth. Do not manually set this parameter. |

Value

`are_int_ish()` returns a logical vector with the same length as the input. `is_int_ish()` returns a length-1 logical (TRUE or FALSE) for the entire vector.

See Also

Other integer functions: [specify_int\(\)](#), [stabilize_int\(\)](#)
 Other check functions: [are_chr_ish\(\)](#), [are_dbl_ish\(\)](#), [are_fct_ish\(\)](#), [are_lgl_ish\(\)](#)

Examples

```

are_int_ish(1:4)
is_int_ish(1:4)

are_int_ish(c(1.0, 2.0, 3.00000))

```

```

is_int_ish(c(1.0, 2.0, 3.00000))

are_int_ish(c("1.0", "2.0", "3.00000"))
is_int_ish(c("1.0", "2.0", "3.00000"))

are_int_ish(c(1, 2.2, NA))
is_int_ish(c(1, 2.2, NA))

are_int_ish(c("1", "1.0", "1.1", "a"))
is_int_ish(c("1", "1.0", "1.1", "a"))

are_int_ish(factor(c("1", "a")))
is_int_ish(factor(c("1", "a")))

```

are_lgl_ish
Check if an object can be safely coerced to logical

Description

`are_lgl_ish()` is a vectorized predicate function that checks whether each element of its input can be safely coerced to a logical vector. `are_logical_ish()` is a synonym of `are_lgl_ish()`.

`is_lgl_ish()` is a scalar predicate function that checks if all elements of its input can be safely coerced to a logical vector. `is_logical_ish()` is a synonym of `is_lgl_ish()`.

Usage

```

are_lgl_ish(x, ...)

is_lgl_ish(x, ...)

are_logical_ish(x, ...)

is_logical_ish(x, ...)

## Default S3 method:
are_lgl_ish(x, ..., depth = 1)

```

Arguments

| | |
|--------------------|---|
| <code>x</code> | The object to check. |
| <code>...</code> | Arguments passed to methods. |
| <code>depth</code> | (length-1 integer) Current recursion depth. Do not manually set this parameter. |

Value

`are_lgl_ish()` returns a logical vector with the same length as the input. `is_lgl_ish()` returns a length-1 logical (TRUE or FALSE) for the entire vector.

See Also

Other logical functions: [specify_lgl\(\)](#), [stabilize_lgl\(\)](#)

Other check functions: [are_chr_ish\(\)](#), [are_dbl_ish\(\)](#), [are_fct_ish\(\)](#), [are_int_ish\(\)](#)

Examples

```
are_lgl_ish(c(TRUE, FALSE, NA))
is_lgl_ish(c(TRUE, FALSE, NA))

are_lgl_ish(c(1, 0, 1.0, NA))
is_lgl_ish(c(1, 0, 1.0, NA))

are_lgl_ish(c("T", "F", "TRUE", "FALSE", "true", "false", "1", "0"))
is_lgl_ish(c("T", "F", "TRUE", "FALSE", "true", "false", "1", "0"))

are_lgl_ish(c("T", "F", "a", "1.1"))
is_lgl_ish(c("T", "F", "a", "1.1"))

are_lgl_ish(factor(c("T", "a")))
is_lgl_ish(factor(c("T", "a")))

are_lgl_ish(list(TRUE, 0, "F", "a"))
is_lgl_ish(list(TRUE, 0, "F", "a"))
```

expect_pkg_error_classes

Test package error classes

Description

When you use [pkg_abort\(\)](#) to signal errors, you can use this function to test that those errors are generated as expected.

Usage

```
expect_pkg_error_classes(object, package, ...)
```

Arguments

| | |
|---------|--|
| object | An expression that is expected to throw an error. |
| package | (length-1 character) The name of the package to use in classes. |
| ... | (character) Components of the class name, from least-specific to most. |

Value

The classes of the error invisibly on success or the error on failure. Unlike most testthat expectations, this expectation cannot be usefully chained.

Examples

```

expect_pkg_error_classes(
  pkg_abort("stbl", "This is a test error", "test_subclass"),
  "stbl",
  "test_subclass"
)
try(
  expect_pkg_error_classes(
    pkg_abort("stbl", "This is a test error", "test_subclass"),
    "stbl",
    "different_subclass"
  )
)

```

```
expect_pkg_error_snapshot
```

Snapshot-test a package error

Description

A convenience wrapper around `testthat::expect_snapshot()` and `expect_pkg_error_classes()` that captures both the error class hierarchy and the user-facing message in a single snapshot.

Usage

```

expect_pkg_error_snapshot(
  object,
  package,
  ...,
  transform = NULL,
  variant = NULL,
  env = caller_env()
)

```

Arguments

| | |
|------------------------|---|
| <code>object</code> | An expression that is expected to throw an error. |
| <code>package</code> | (length-1 character) The name of the package to use in classes. |
| <code>...</code> | (character) Components of the class name, from least-specific to most. |
| <code>transform</code> | (function or NULL) Optional function to scrub volatile output (e.g. temp paths) before snapshot comparison. Passed through to <code>testthat::expect_snapshot()</code> . |
| <code>variant</code> | (character(1) or NULL) Optional snapshot variant name. Passed through to <code>testthat::expect_snapshot()</code> . |
| <code>env</code> | (environment) The environment in which <code>object</code> should be evaluated. The actual evaluation will occur in a child of this environment, with <code>expect_pkg_error_classes()</code> available even if this package is not attached. |

Value

The result of `testthat::expect_snapshot()`, invisibly.

| | |
|-------------|---|
| object_type | <i>Identify the class, type, etc of an object</i> |
|-------------|---|

Description

Extract the class (or type) of an object for use in error messages.

Usage

```
object_type(x)
```

Arguments

x An object to test.

Value

A length-1 character vector describing the class of the object.

Examples

```
object_type("a")
object_type(1L)
object_type(1.1)
object_type(mtcars)
object_type(rlang::quo(something))
```

| | |
|-----------|---|
| pkg_abort | <i>Signal an error with standards applied</i> |
|-----------|---|

Description

A wrapper around `cli::cli_abort()` to throw classed errors, with an opinionated framework of error classes.

Usage

```
pkg_abort(
  package,
  message,
  subclass,
  call = caller_env(),
  message_env = call,
  parent = NULL,
  ...
)
```

Arguments

| | |
|-------------|--|
| package | (length-1 character) The name of the package to use in classes. |
| message | (character) The message for the new error. Messages will be formatted with <code>cli::cli_bullets()</code> . |
| subclass | (character) Class(es) to assign to the error. Will be prefixed by "{package}-error-". |
| call | (environment) The execution environment to mention as the source of error messages. |
| message_env | (environment) The execution environment to use to evaluate variables in error messages. |
| parent | A parent condition, as you might create during a <code>rlang::try_fetch()</code> . See <code>rlang::abort()</code> for additional information. |
| ... | Additional parameters passed to <code>cli::cli_abort()</code> and on to <code>rlang::abort()</code> . |

Examples

```
try(pkg_abort("stbl", "This is a test error", "test_subclass"))
tryCatch(
  pkg_abort("stbl", "This is a test error", "test_subclass"),
  `stbl-error` = function(e) {
    "Caught a generic stbl error."
  }
)
tryCatch(
  pkg_abort("stbl", "This is a test error", "test_subclass"),
  `stbl-error-test_subclass` = function(e) {
    "Caught a specific subclass of stbl error."
  }
)
```

regex_must_match *Create a regex matching rule*

Description

Attach a standardized error message to a regex argument. By default, the message will be "must match the regex pattern {regex}". If the input regex has a negate attribute set to TRUE (set automatically by `regex_must_not_match()`), the message will instead be "must not match...". This message can be used with `stabilize_chr()` and `stabilize_chr_scalar()`.

Usage

```
regex_must_match(regex)
```

```
regex_must_not_match(regex)
```

Arguments

regex (character) The regular expression pattern.

Value

For `regex_must_match`, the `regex` value with `names()` equal to the generated error message.

For `regex_must_not_match()`, the `regex` value with a `negate` attribute and with `names()` equal to the generated "must not match" error message.

Examples

```
regex_must_match("[aeiou]")

# With negation:
regex <- "[aeiou]"
attr(regex, "negate") <- TRUE
regex_must_match(regex)
regex_must_not_match("[aeiou]")
```

specify_chr

Create a specified character stabilizer function

Description

`specify_chr()` creates a function that will call `stabilize_chr()` with the provided arguments.

`specify_chr_scalar()` creates a function that will call `stabilize_chr_scalar()` with the provided arguments.

`specify_character()` is a synonym of `specify_chr()`, and `specify_character_scalar()` is a synonym of `specify_chr_scalar()`.

Usage

```
specify_chr(
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  regex = NULL
)

specify_chr_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  regex = NULL
)

specify_character(
```

```

    allow_null = TRUE,
    allow_na = TRUE,
    min_size = NULL,
    max_size = NULL,
    regex = NULL
  )

specify_character_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  regex = NULL
)

```

Arguments

| | |
|--------------------------------|---|
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>regex</code> | (character, list, or stringr_pattern) One or more optional regular expressions to test against the values of <code>x</code> . This can be a character vector, a list of character vectors, or a pattern object from the <code>{stringr}</code> package (e.g., <code>stringr::fixed("a.b")</code>). The default error message for non-matching values will include the pattern itself (see <code>regex_must_match()</code>). To provide a custom message, supply a named character vector where the value is the regex pattern and the name is the message that should be displayed. To check that a pattern is <i>not</i> matched, attach a <code>negate</code> attribute set to <code>TRUE</code> . If a complex regex pattern throws an error, try installing the <code>stringi</code> package. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Value

A function of class "stbl_specified_fn" that calls `stabilize_chr()` or `stabilize_chr_scalar()` with the provided arguments. The generated function will also accept `...` for additional arguments to pass to `stabilize_chr()` or `stabilize_chr_scalar()`. You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other character functions: `are_chr_ish()`, `stabilize_chr()`

Other specification functions: `specify_dbl()`, `specify_df()`, `specify_fct()`, `specify_int()`, `specify_lgl()`, `specify_lst()`

Examples

```
stabilize_email <- specify_chr(regex = "^[@]+@[^@]+\\.\\.^[^@]+$")
stabilize_email("stbl@example.com")
try(stabilize_email("not-an-email-address"))
```

specify_dbl

Create a specified double stabilizer function

Description

specify_dbl() creates a function that will call `stabilize_dbl()` with the provided arguments. `specify_dbl_scalar()` creates a function that will call `stabilize_dbl_scalar()` with the provided arguments. `specify_double()` is a synonym of `specify_dbl()`, and `specify_double_scalar()` is a synonym of `specify_dbl_scalar()`.

Usage

```
specify_dbl(
  allow_null = TRUE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_size = NULL,
  max_size = NULL,
  min_value = NULL,
  max_value = NULL
)

specify_dbl_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL
)

specify_double(
  allow_null = TRUE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_size = NULL,
  max_size = NULL,
  min_value = NULL,
  max_value = NULL
)
```

```

)

specify_double_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL
)

```

Arguments

| | |
|--------------------------------|---|
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>coerce_character</code> | (length-1 logical) Should character vectors such as "1" and "2.0" be considered numeric-ish? |
| <code>coerce_factor</code> | (length-1 logical) Should factors with values such as "1" and "2.0" be considered numeric-ish? Note that this package uses the character value from the factor, while <code>as.integer()</code> and <code>as.double()</code> use the integer index of the factor. |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>min_value</code> | (length-1 numeric) The lowest allowed value for x. If NULL (default) values are not checked. |
| <code>max_value</code> | (length-1 numeric) The highest allowed value for x. If NULL (default) values are not checked. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Value

A function of class "stbl_specified_fn" that calls `stabilize_dbl()` or `stabilize_dbl_scalar()` with the provided arguments. The generated function will also accept ... for additional arguments to pass to `stabilize_dbl()` or `stabilize_dbl_scalar()`. You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other double functions: `are_dbl_ish()`, `stabilize_dbl()`

Other specification functions: `specify_chr()`, `specify_df()`, `specify_fct()`, `specify_int()`, `specify_lgl()`, `specify_lst()`

Examples

```
stabilize_3_to_5 <- specify_dbl(min_value = 3, max_value = 5)
stabilize_3_to_5(c(3.3, 4.4, 5))
try(stabilize_3_to_5(c(1:6)))
```

specify_df

*Create a specified data frame stabilizer function***Description**

specify_df() creates a function that will call `stabilize_df()` with the provided arguments. `specify_data_frame()` is a synonym of `specify_df()`.

Usage

```
specify_df(
  ...,
  .extra_cols = NULL,
  .col_names = NULL,
  .min_rows = NULL,
  .max_rows = NULL,
  .allow_null = TRUE
)

specify_data_frame(
  ...,
  .extra_cols = NULL,
  .col_names = NULL,
  .min_rows = NULL,
  .max_rows = NULL,
  .allow_null = TRUE
)
```

Arguments

| | |
|--------------------------|---|
| ... | Named stabilizer functions, such as <code>stabilize_*</code> functions (<code>stabilize_chr()</code> , etc) or functions produced by <code>specify_*</code> () functions (<code>specify_chr()</code> , etc). Each name corresponds to a required column in <code>.x</code> , and the function is used to validate that column. |
| <code>.extra_cols</code> | A single stabilizer function, such as a <code>stabilize_*</code> function (<code>stabilize_chr()</code> , etc) or a function produced by a <code>specify_*</code> () function (<code>specify_chr()</code> , etc). This function is used to validate all columns of <code>.x</code> that are <i>not</i> explicitly listed in ... If NULL (default), any extra columns will cause an error. |
| <code>.col_names</code> | (character) A character vector of column names that must be present in <code>.x</code> . Any columns listed here that are absent from <code>.x</code> will cause an error. Unlike ..., this does not validate the column contents. |

`.min_rows` (length-1 integer) The minimum number of rows allowed in `.x`. If NULL (default), the row count is not checked.

`.max_rows` (length-1 integer) The maximum number of rows allowed in `.x`. If NULL (default), the row count is not checked.

`.allow_null` (length-1 logical) Is NULL an acceptable value?

Value

A function of class "stbl_specified_fn" that calls `stabilize_df()` with the provided arguments. The generated function will also accept `...` for additional named column specifications to pass to `stabilize_df()`. You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other data frame functions: `stabilize_df()`, `to_df()`

Other specification functions: `specify_chr()`, `specify_dbl()`, `specify_fct()`, `specify_int()`, `specify_lgl()`, `specify_lst()`

Examples

```
stabilize_person_df <- specify_df(
  name = specify_chr_scalar(allow_na = FALSE),
  age = specify_int_scalar(allow_na = FALSE),
  .extra_cols = stabilize_present
)
stabilize_person_df(data.frame(name = "Alice", age = 30L, score = 99.5))
try(stabilize_person_df(data.frame(name = "Alice")))
```

`specify_fct`

Create a specified factor stabilizer function

Description

`specify_fct()` creates a function that will call `stabilize_fct()` with the provided arguments. `specify_fct_scalar()` creates a function that will call `stabilize_fct_scalar()` with the provided arguments. `specify_factor()` is a synonym of `specify_fct()`, and `specify_factor_scalar()` is a synonym of `specify_fct_scalar()`.

Usage

```
specify_fct(
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  levels = NULL,
  to_na = character()
```

```

)

specify_fct_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  levels = NULL,
  to_na = character()
)

specify_factor(
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  levels = NULL,
  to_na = character()
)

specify_factor_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  levels = NULL,
  to_na = character()
)

```

Arguments

| | |
|--------------------------------|--|
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>levels</code> | (character) Expected levels. If NULL (default), the levels will be computed by <code>base::factor()</code> . |
| <code>to_na</code> | (character) Values to convert to NA. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Value

A function of class "stbl_specified_fn" that calls `stabilize_fct()` or `stabilize_fct_scalar()` with the provided arguments. The generated function will also accept `...` for additional arguments to pass to `stabilize_fct()` or `stabilize_fct_scalar()`. You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other factor functions: [are_fct_ish\(\)](#), [stabilize_fct\(\)](#)

Other specification functions: [specify_chr\(\)](#), [specify_dbl\(\)](#), [specify_df\(\)](#), [specify_int\(\)](#), [specify_lgl\(\)](#), [specify_lst\(\)](#)

Examples

```
stabilize_lowercase_letter <- specify_fct(levels = letters)
stabilize_lowercase_letter(c("s", "t", "b", "l"))
try(stabilize_lowercase_letter("A"))
```

specify_int

Create a specified integer stabilizer function

Description

`specify_int()` creates a function that will call [stabilize_int\(\)](#) with the provided arguments. `specify_int_scalar()` creates a function that will call [stabilize_int_scalar\(\)](#) with the provided arguments. `specify_integer()` is a synonym of `specify_int()`, and `specify_integer_scalar()` is a synonym of `specify_int_scalar()`.

Usage

```
specify_int(
  allow_null = TRUE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_size = NULL,
  max_size = NULL,
  min_value = NULL,
  max_value = NULL
)

specify_int_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL
)

specify_integer(
  allow_null = TRUE,
```

```

    allow_na = TRUE,
    coerce_character = TRUE,
    coerce_factor = TRUE,
    min_size = NULL,
    max_size = NULL,
    min_value = NULL,
    max_value = NULL
  )

specify_integer_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL
)

```

Arguments

| | |
|--------------------------------|---|
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>coerce_character</code> | (length-1 logical) Should character vectors such as "1" and "2.0" be considered numeric-ish? |
| <code>coerce_factor</code> | (length-1 logical) Should factors with values such as "1" and "2.0" be considered numeric-ish? Note that this package uses the character value from the factor, while <code>as.integer()</code> and <code>as.double()</code> use the integer index of the factor. |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>min_value</code> | (length-1 numeric) The lowest allowed value for x. If NULL (default) values are not checked. |
| <code>max_value</code> | (length-1 numeric) The highest allowed value for x. If NULL (default) values are not checked. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Value

A function of class "stbl_specified_fn" that calls `stabilize_int()` or `stabilize_int_scalar()` with the provided arguments. The generated function will also accept `...` for additional arguments to pass to `stabilize_int()` or `stabilize_int_scalar()`. You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other integer functions: [are_int-ish\(\)](#), [stabilize_int\(\)](#)

Other specification functions: [specify_chr\(\)](#), [specify_dbl\(\)](#), [specify_df\(\)](#), [specify_fct\(\)](#), [specify_lgl\(\)](#), [specify_lst\(\)](#)

Examples

```
stabilize_3_to_5 <- specify_int(min_value = 3, max_value = 5)
stabilize_3_to_5(c(3:5))
try(stabilize_3_to_5(c(1:6)))
```

specify_lgl

Create a specified logical stabilizer function

Description

`specify_lgl()` creates a function that will call [stabilize_lgl\(\)](#) with the provided arguments. `specify_lgl_scalar()` creates a function that will call [stabilize_lgl_scalar\(\)](#) with the provided arguments. `specify_logical()` is a synonym of `specify_lgl()`, and `specify_logical_scalar()` is a synonym of `specify_lgl_scalar()`.

Usage

```
specify_lgl(
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL
)

specify_lgl_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE
)

specify_logical(
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL
)

specify_logical_scalar(
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE
)
```

Arguments

allow_null (length-1 logical) Is NULL an acceptable value?
 allow_na (length-1 logical) Are NA values ok?
 min_size (length-1 integer) The minimum size of the object. Object size will be tested using `vctrs::vec_size()`.
 max_size (length-1 integer) The maximum size of the object. Object size will be tested using `vctrs::vec_size()`.
 allow_zero_length (length-1 logical) Are zero-length vectors acceptable?

Value

A function of class "stbl_specified_fn" that calls `stabilize_lgl()` or `stabilize_lgl_scalar()` with the provided arguments. The generated function will also accept ... for additional arguments to pass to `stabilize_lgl()` or `stabilize_lgl_scalar()`. You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other logical functions: `are_lgl_ish()`, `stabilize_lgl()`
 Other specification functions: `specify_chr()`, `specify_dbl()`, `specify_df()`, `specify_fct()`, `specify_int()`, `specify_lst()`

Examples

```

stabilize_few_lgl <- specify_lgl(max_size = 5)
stabilize_few_lgl(c(TRUE, "False", TRUE))
try(stabilize_few_lgl(rep(TRUE, 10)))

```

specify_lst

Create a specified list stabilizer function

Description

`specify_lst()` creates a function that will call `stabilize_lst()` with the provided arguments. `specify_list()` is a synonym of `specify_lst()`.

Usage

```

specify_lst(
  ...,
  .named = NULL,
  .unnamed = NULL,
  .allow_null = TRUE,
  .min_size = NULL,
  .max_size = NULL
)

```

```

specify_list(
  ...,
  .named = NULL,
  .unnamed = NULL,
  .allow_null = TRUE,
  .min_size = NULL,
  .max_size = NULL
)

```

Arguments

| | |
|--------------------------|---|
| ... | Named stabilizer functions, such as <code>stabilize_*</code> functions (stabilize_chr() , etc) or functions produced by <code>specify_*</code> () functions (specify_chr() , etc). Each name corresponds to a required element in <code>.x</code> , and the function is used to validate that element. |
| <code>.named</code> | A single stabilizer function, such as a <code>stabilize_*</code> function (stabilize_chr() , etc) or a function produced by a <code>specify_*</code> () function (specify_chr() , etc). This function is used to validate all named elements of <code>.x</code> that are <i>not</i> explicitly listed in ... If NULL (default), any extra named elements will cause an error. |
| <code>.unnamed</code> | A single stabilizer function, such as a <code>stabilize_*</code> function (stabilize_chr() , etc) or a function produced by a <code>specify_*</code> () function (specify_chr() , etc). This function is used to validate all unnamed elements of <code>.x</code> . If NULL (default), any unnamed elements will cause an error. |
| <code>.allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>.min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>.max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |

Value

A function of class "stbl_specified_fn" that calls [stabilize_lst\(\)](#) with the provided arguments. The generated function will also accept ... for additional named element specifications to pass to [stabilize_lst\(\)](#). You can copy/paste the body of the resulting function if you want to provide additional context or functionality.

See Also

Other list functions: [stabilize_lst\(\)](#), [stabilize_present\(\)](#), [to_lst\(\)](#)

Other specification functions: [specify_chr\(\)](#), [specify_dbl\(\)](#), [specify_df\(\)](#), [specify_fct\(\)](#), [specify_int\(\)](#), [specify_lgl\(\)](#)

Examples

```

stabilize_config <- specify_lst(
  name = specify_chr_scalar(allow_na = FALSE),
  version = stabilize_int_scalar,

```

```

    debug = specify_lgl_scalar(allow_na = FALSE),
    .unnamed = stabilize_chr_scalar
  )
  stabilize_config(list(name = "myapp", version = 1L, debug = FALSE, "extra"))
  try(
    stabilize_config(
      list(name = "myapp", version = 1L, debug = FALSE, c("a", "b"))
    )
  )
)

```

stabilize_arg

Ensure an argument meets expectations

Description

`stabilize_arg()` is used by other functions such as `stabilize_int()`. Use `stabilize_arg()` if the type-specific functions will not work for your use case, but you would still like to check things like size or whether the argument is `NULL`.

`stabilize_arg_scalar()` is optimized to check for length-1 vectors.

Usage

```

stabilize_arg(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_arg_scalar(
  x,
  ...,
  allow_null = TRUE,
  allow_zero_length = TRUE,
  allow_na = TRUE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

Arguments

| | |
|-------------------|--|
| x | The argument to stabilize. |
| ... | Arguments passed to methods. |
| allow_null | (length-1 logical) Is NULL an acceptable value? |
| allow_na | (length-1 logical) Are NA values ok? |
| min_size | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| max_size | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| x_arg | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| call | (environment) The execution environment to mention as the source of error messages. |
| x_class | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| allow_zero_length | (length-1 logical) Are zero-length vectors acceptable? |

Value

x, unless one of the checks fails.

See Also

Other stabilization functions: [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_fct\(\)](#), [stabilize_int\(\)](#), [stabilize_lgl\(\)](#), [stabilize_lst\(\)](#), [stabilize_present\(\)](#)

Examples

```

wrapper <- function(this_arg, ...) {
  stabilize_arg(this_arg, ...)
}
wrapper(1)
wrapper(NULL)
wrapper(NA)
try(wrapper(NULL, allow_null = FALSE))
try(wrapper(NA, allow_na = FALSE))
try(wrapper(1, min_size = 2))
try(wrapper(1:10, max_size = 5))
stabilize_arg_scalar("a")
stabilize_arg_scalar(1L)
try(stabilize_arg_scalar(1:10))

```

stabilize_chr

Ensure a character argument meets expectations

Description

`to_chr()` checks whether an argument can be coerced to character without losing information, returning it silently if so. Otherwise an informative error message is signaled. `to_character` is a synonym of `to_chr()`.

`stabilize_chr()` can check more details about the argument, but is slower than `to_chr()`. `stabilise_chr()`, `stabilize_character()`, and `stabilise_character()` are synonyms of `stabilize_chr()`.

`stabilize_chr_scalar()` and `to_chr_scalar()` are optimized to check for length-1 character vectors. `stabilise_chr_scalar`, `stabilize_character_scalar()`, and `stabilise_character_scalar` are synonyms of `stabilize_chr_scalar()`, and `to_character_scalar()` is a synonym of `to_chr_scalar()`.

Usage

```
stabilize_chr(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  regex = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)
```

```
stabilize_character(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  regex = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)
```

```
stabilise_chr(
  x,
  ...,
  allow_null = TRUE,
```

```
    allow_na = TRUE,
    min_size = NULL,
    max_size = NULL,
    regex = NULL,
    x_arg = caller_arg(x),
    call = caller_env(),
    x_class = object_type(x)
)

stabilise_character(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  regex = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_chr_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  regex = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_character_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  regex = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilise_chr_scalar(
  x,
```

```
    ...,
    allow_null = FALSE,
    allow_zero_length = FALSE,
    allow_na = TRUE,
    regex = NULL,
    x_arg = caller_arg(x),
    call = caller_env(),
    x_class = object_type(x)
)

stabilise_character_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  regex = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_chr(
  x,
  ...,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_character(
  x,
  ...,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

## S3 method for class ``NULL``
to_chr(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())

to_chr_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  x_arg = caller_arg(x),
  call = caller_env(),
```

```

  x_class = object_type(x)
)

to_character_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

Arguments

| | |
|--------------------------------|--|
| <code>x</code> | The argument to stabilize. |
| <code>...</code> | Arguments passed to methods. |
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>regex</code> | (character, list, or stringr_pattern) One or more optional regular expressions to test against the values of <code>x</code> . This can be a character vector, a list of character vectors, or a pattern object from the {stringr} package (e.g., <code>stringr::fixed("a.b")</code>). The default error message for non-matching values will include the pattern itself (see <code>regex_must_match()</code>). To provide a custom message, supply a named character vector where the value is the regex pattern and the name is the message that should be displayed. To check that a pattern is <i>not</i> matched, attach a negate attribute set to TRUE. If a complex regex pattern throws an error, try installing the stringi package. |
| <code>x_arg</code> | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| <code>call</code> | (environment) The execution environment to mention as the source of error messages. |
| <code>x_class</code> | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Details

These functions have two important differences from `base::as.character()`:

- lists and data.frames are *not* coerced to character. In base R, such objects are coerced to character representations of their elements. For example, `as.character(list(1:3))` returns "1:10". In the unlikely event that this is the expected behavior, use `as.character()` instead.
- NULL values can be rejected as part of the call to this function (with `allow_null = FALSE`).

Value

The argument as a character vector.

See Also

Other character functions: [are_chr_ish\(\)](#), [specify_chr\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_fct\(\)](#), [stabilize_int\(\)](#), [stabilize_lgl\(\)](#), [stabilize_lst\(\)](#), [stabilize_present\(\)](#)

Examples

```
to_chr("a")
to_chr(letters)
to_chr(1:10)
to_chr(1 + 0i)
to_chr(NULL)
try(to_chr(NULL, allow_null = FALSE))

to_chr_scalar("a")
try(to_chr_scalar(letters))

stabilize_chr(letters)
stabilize_chr(1:10)
stabilize_chr(NULL)
try(stabilize_chr(NULL, allow_null = FALSE))
try(stabilize_chr(c("a", NA), allow_na = FALSE))
try(stabilize_chr(letters, min_size = 50))
try(stabilize_chr(letters, max_size = 20))
try(stabilize_chr(c("hide", "find", "find", "hide"), regex = "hide"))

stabilize_chr_scalar(TRUE)
stabilize_chr_scalar("TRUE")
try(stabilize_chr_scalar(c(TRUE, FALSE, TRUE)))
try(stabilize_chr_scalar(NULL))
stabilize_chr_scalar(NULL, allow_null = TRUE)
```

Description

`to_dbl()` checks whether an argument can be coerced to double without losing information, returning it silently if so. Otherwise an informative error message is signaled. `to_double` is a synonym of `to_dbl()`.

`stabilize_dbl()` can check more details about the argument, but is slower than `to_dbl()`. `stabilise_dbl()`, `stabilize_double()`, and `stabilise_double()` are synonyms of `stabilize_dbl()`.

`stabilize_dbl_scalar()` and `to_dbl_scalar()` are optimized to check for length-1 double vectors. `stabilise_dbl_scalar`, `stabilize_double_scalar()`, and `stabilise_double_scalar` are synonyms of `stabilize_dbl_scalar()`, and `to_double_scalar()` is a synonym of `to_dbl_scalar()`.

Usage

```
stabilize_dbl(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_size = NULL,
  max_size = NULL,
  min_value = NULL,
  max_value = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)
```

```
stabilize_double(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_size = NULL,
  max_size = NULL,
  min_value = NULL,
  max_value = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)
```

```
stabilise_dbl(
  x,
  ...,
  allow_null = TRUE,
```

```
    allow_na = TRUE,  
    coerce_character = TRUE,  
    coerce_factor = TRUE,  
    min_size = NULL,  
    max_size = NULL,  
    min_value = NULL,  
    max_value = NULL,  
    x_arg = caller_arg(x),  
    call = caller_env(),  
    x_class = object_type(x)  
  )  
  
  stabilise_double(  
    x,  
    ...,  
    allow_null = TRUE,  
    allow_na = TRUE,  
    coerce_character = TRUE,  
    coerce_factor = TRUE,  
    min_size = NULL,  
    max_size = NULL,  
    min_value = NULL,  
    max_value = NULL,  
    x_arg = caller_arg(x),  
    call = caller_env(),  
    x_class = object_type(x)  
  )  
  
  stabilize_dbl_scalar(  
    x,  
    ...,  
    allow_null = FALSE,  
    allow_zero_length = FALSE,  
    allow_na = TRUE,  
    coerce_character = TRUE,  
    coerce_factor = TRUE,  
    min_value = NULL,  
    max_value = NULL,  
    x_arg = caller_arg(x),  
    call = caller_env(),  
    x_class = object_type(x)  
  )  
  
  stabilize_double_scalar(  
    x,  
    ...,  
    allow_null = FALSE,  
    allow_zero_length = FALSE,
```

```
    allow_na = TRUE,  
    coerce_character = TRUE,  
    coerce_factor = TRUE,  
    min_value = NULL,  
    max_value = NULL,  
    x_arg = caller_arg(x),  
    call = caller_env(),  
    x_class = object_type(x)  
  )  
  
stabilise_dbl_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  allow_na = TRUE,  
  coerce_character = TRUE,  
  coerce_factor = TRUE,  
  min_value = NULL,  
  max_value = NULL,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
stabilise_double_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  allow_na = TRUE,  
  coerce_character = TRUE,  
  coerce_factor = TRUE,  
  min_value = NULL,  
  max_value = NULL,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
to_dbl(  
  x,  
  ...,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)
```

```
to_double(  
  x,  
  ...,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
## S3 method for class ``NULL``  
to_dbl(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())  
  
## S3 method for class 'character'  
to_dbl(  
  x,  
  ...,  
  coerce_character = TRUE,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
## S3 method for class 'factor'  
to_dbl(  
  x,  
  ...,  
  coerce_factor = TRUE,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
to_dbl_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
to_double_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  x_arg = caller_arg(x),  
  call = caller_env(),
```

```

  x_class = object_type(x)
)

```

Arguments

| | |
|--------------------------------|---|
| <code>x</code> | The argument to stabilize. |
| <code>...</code> | Arguments passed to methods. |
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>coerce_character</code> | (length-1 logical) Should character vectors such as "1" and "2.0" be considered numeric-ish? |
| <code>coerce_factor</code> | (length-1 logical) Should factors with values such as "1" and "2.0" be considered numeric-ish? Note that this package uses the character value from the factor, while <code>as.integer()</code> and <code>as.double()</code> use the integer index of the factor. |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>min_value</code> | (length-1 numeric) The lowest allowed value for x. If NULL (default) values are not checked. |
| <code>max_value</code> | (length-1 numeric) The highest allowed value for x. If NULL (default) values are not checked. |
| <code>x_arg</code> | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| <code>call</code> | (environment) The execution environment to mention as the source of error messages. |
| <code>x_class</code> | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Value

The argument as a double vector.

See Also

Other double functions: `are_dbl_ish()`, `specify_dbl()`

Other stabilization functions: `stabilize_arg()`, `stabilize_chr()`, `stabilize_df()`, `stabilize_fct()`, `stabilize_int()`, `stabilize_lgl()`, `stabilize_lst()`, `stabilize_present()`

Examples

```

to_dbl(1:10)
to_dbl("1.1")
to_dbl(1 + 0i)
to_dbl(NULL)
try(to_dbl("a"))
try(to_dbl("1.1", coerce_character = FALSE))

to_dbl_scalar("1.1")
try(to_dbl_scalar(1:10))

stabilize_dbl(1:10)
stabilize_dbl("1.1")
stabilize_dbl(1 + 0i)
stabilize_dbl(NULL)
try(stabilize_dbl(NULL, allow_null = FALSE))
try(stabilize_dbl(c(1.1, NA), allow_na = FALSE))
try(stabilize_dbl(letters))
try(stabilize_dbl("1.1", coerce_character = FALSE))
try(stabilize_dbl(factor(c("1.1", "a"))))
try(stabilize_dbl(factor("1.1"), coerce_factor = FALSE))
try(stabilize_dbl(1:10, min_value = 3.5))
try(stabilize_dbl(1:10, max_value = 7.5))

stabilize_dbl_scalar(1.0)
stabilize_dbl_scalar("1.1")
try(stabilize_dbl_scalar(1:10))
try(stabilize_dbl_scalar(NULL))
stabilize_dbl_scalar(NULL, allow_null = TRUE)

```

stabilize_df

Ensure a data frame argument meets expectations

Description

`stabilize_df()` validates the structure and contents of a data frame. It can check that specific named columns are present and valid, that extra columns conform to a shared rule, that required column names are present, and that the row count is within specified bounds. `stabilise_df()`, `stabilize_data_frame()`, and `stabilise_data_frame()` are synonyms of `stabilize_df()`.

Usage

```

stabilize_df(
  .x,
  ...,
  .extra_cols = NULL,
  .col_names = NULL,
  .min_rows = NULL,
  .max_rows = NULL,

```

```
.allow_null = TRUE,  
.x_arg = caller_arg(.x),  
.call = caller_env(),  
.x_class = object_type(.x)  
)  
  
stabilise_df(  
  .x,  
  ...,  
  .extra_cols = NULL,  
  .col_names = NULL,  
  .min_rows = NULL,  
  .max_rows = NULL,  
  .allow_null = TRUE,  
  .x_arg = caller_arg(.x),  
  .call = caller_env(),  
  .x_class = object_type(.x)  
)  
  
stabilize_data_frame(  
  .x,  
  ...,  
  .extra_cols = NULL,  
  .col_names = NULL,  
  .min_rows = NULL,  
  .max_rows = NULL,  
  .allow_null = TRUE,  
  .x_arg = caller_arg(.x),  
  .call = caller_env(),  
  .x_class = object_type(.x)  
)  
  
stabilise_data_frame(  
  .x,  
  ...,  
  .extra_cols = NULL,  
  .col_names = NULL,  
  .min_rows = NULL,  
  .max_rows = NULL,  
  .allow_null = TRUE,  
  .x_arg = caller_arg(.x),  
  .call = caller_env(),  
  .x_class = object_type(.x)  
)
```

Arguments

`.x` The argument to stabilize.

| | |
|-------------|---|
| ... | Named stabilizer functions, such as stabilize_* functions (stabilize_chr() , etc) or functions produced by specify_*() functions (specify_chr() , etc). Each name corresponds to a required column in .x, and the function is used to validate that column. |
| .extra_cols | A single stabilizer function, such as a stabilize_* function (stabilize_chr() , etc) or a function produced by a specify_*() function (specify_chr() , etc). This function is used to validate all columns of .x that are <i>not</i> explicitly listed in ... If NULL (default), any extra columns will cause an error. |
| .col_names | (character) A character vector of column names that must be present in .x. Any columns listed here that are absent from .x will cause an error. Unlike ..., this does not validate the column contents. |
| .min_rows | (length-1 integer) The minimum number of rows allowed in .x. If NULL (default), the row count is not checked. |
| .max_rows | (length-1 integer) The maximum number of rows allowed in .x. If NULL (default), the row count is not checked. |
| .allow_null | (length-1 logical) Is NULL an acceptable value? |
| .x_arg | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| .call | (environment) The execution environment to mention as the source of error messages. |
| .x_class | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |

Value

The validated data frame.

See Also

Other data frame functions: [specify_df\(\)](#), [to_df\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_fct\(\)](#), [stabilize_int\(\)](#), [stabilize_lgl\(\)](#), [stabilize_lst\(\)](#), [stabilize_present\(\)](#)

Examples

```
# Basic validation: required columns with type specs
stabilize_df(
  data.frame(name = "Alice", age = 30L),
  name = specify_chr_scalar(),
  age = specify_int_scalar()
)

# Allow extra columns with .extra_cols
stabilize_df(
  data.frame(name = "Alice", age = 30L, score = 99.5),
```

```

name = specify_chr_scalar(),
age = specify_int_scalar(),
.extra_cols = stabilize_present
)

# Check required column names without validating contents
stabilize_df(
  mtcars,
  .col_names = c("mpg", "cyl"),
  .extra_cols = stabilize_present
)

# Enforce row count constraints
try(stabilize_df(mtcars[0, ], .min_rows = 1, .extra_cols = stabilize_present))

# NULL is allowed by default
stabilize_df(NULL)
try(stabilize_df(NULL, .allow_null = FALSE))

# Coercible inputs such as named lists are accepted
stabilize_df(
  list(name = "Alice", age = 30L),
  name = specify_chr_scalar(),
  age = specify_int_scalar()
)

# Non-coercible inputs are rejected
try(stabilize_df("not a data frame"))

```

stabilize_fct

Ensure a factor argument meets expectations

Description

`to_fct()` checks whether an argument can be coerced to a factor without losing information, returning it silently if so. Otherwise an informative error message is signaled. `to_factor` is a synonym of `to_fct()`.

`stabilize_fct()` can check more details about the argument, but is slower than `to_fct()`. `stabilise_fct()`, `stabilize_factor()`, and `stabilise_factor()` are synonyms of `stabilize_fct()`.

`stabilize_fct_scalar()` and `to_fct_scalar()` are optimized to check for length-1 factors. `stabilise_fct_scalar`, `stabilize_factor_scalar()`, and `stabilise_factor_scalar` are synonyms of `stabilize_fct_scalar()`, and `to_factor_scalar()` is a synonym of `to_fct_scalar()`.

Usage

```

stabilize_fct(
  x,
  ...,
  allow_null = TRUE,

```

```
    allow_na = TRUE,  
    min_size = NULL,  
    max_size = NULL,  
    levels = NULL,  
    to_na = character(),  
    x_arg = caller_arg(x),  
    call = caller_env(),  
    x_class = object_type(x)  
  )
```

```
stabilize_factor(  
  x,  
  ...,  
  allow_null = TRUE,  
  allow_na = TRUE,  
  min_size = NULL,  
  max_size = NULL,  
  levels = NULL,  
  to_na = character(),  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)
```

```
stabilise_fct(  
  x,  
  ...,  
  allow_null = TRUE,  
  allow_na = TRUE,  
  min_size = NULL,  
  max_size = NULL,  
  levels = NULL,  
  to_na = character(),  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)
```

```
stabilise_factor(  
  x,  
  ...,  
  allow_null = TRUE,  
  allow_na = TRUE,  
  min_size = NULL,  
  max_size = NULL,  
  levels = NULL,  
  to_na = character(),  
  x_arg = caller_arg(x),
```

```
    call = caller_env(),
    x_class = object_type(x)
  )

stabilize_fct_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_factor_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilise_fct_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilise_factor_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
```

```
    allow_na = TRUE,
    levels = NULL,
    to_na = character(),
    x_arg = caller_arg(x),
    call = caller_env(),
    x_class = object_type(x)
)

to_fct(
  x,
  ...,
  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_factor(
  x,
  ...,
  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

## S3 method for class ``NULL``
to_fct(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())

to_fct_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_factor_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
```

```

  levels = NULL,
  to_na = character(),
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

Arguments

| | |
|--------------------------------|--|
| <code>x</code> | The argument to stabilize. |
| <code>...</code> | Arguments passed to methods. |
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>levels</code> | (character) Expected levels. If NULL (default), the levels will be computed by <code>base::factor()</code> . |
| <code>to_na</code> | (character) Values to convert to NA. |
| <code>x_arg</code> | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| <code>call</code> | (environment) The execution environment to mention as the source of error messages. |
| <code>x_class</code> | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Details

These functions have important differences from `base::as.factor()` and `base::factor()`:

- Values are never silently coerced to NA unless they are explicitly supplied in the `to_na` argument.
- NULL values can be rejected as part of the call to this function (with `allow_null = FALSE`).

Value

The argument as a factor.

See Also

Other factor functions: [are_fct_ish\(\)](#), [specify_fct\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_int\(\)](#), [stabilize_lgl\(\)](#), [stabilize_lst\(\)](#), [stabilize_present\(\)](#)

Examples

```
to_fct("a")
to_fct(1:10)
to_fct(NULL)
try(to_fct(letters[1:5], levels = c("a", "c"), to_na = "b"))

to_fct_scalar("a")
try(to_fct_scalar(letters))

stabilize_fct(letters)
try(stabilize_fct(NULL, allow_null = FALSE))
try(stabilize_fct(c("a", NA), allow_na = FALSE))
try(stabilize_fct(c("a", "b", "c"), min_size = 5))
try(stabilize_fct(c("a", "b", "c"), max_size = 2))

stabilize_fct_scalar("a")
try(stabilize_fct_scalar(letters))
try(stabilize_fct_scalar("c", levels = c("a", "b")))
```

stabilize_int

Ensure an integer argument meets expectations

Description

`to_int()` checks whether an argument can be coerced to integer without losing information, returning it silently if so. Otherwise an informative error message is signaled. `to_integer` is a synonym of `to_int()`.

`stabilize_int()` can check more details about the argument, but is slower than `to_int()`. `stabilise_int()`, `stabilize_integer()`, and `stabilise_integer()` are synonyms of `stabilize_int()`.

`stabilize_int_scalar()` and `to_int_scalar()` are optimized to check for length-1 integer vectors. `stabilise_int_scalar`, `stabilize_integer_scalar()`, and `stabilise_integer_scalar` are synonyms of `stabilize_int_scalar()`, and `to_integer_scalar()` is a synonym of `to_int_scalar()`.

Usage

```
stabilize_int(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  coerce_character = TRUE,
```

```
    coerce_factor = TRUE,  
    min_size = NULL,  
    max_size = NULL,  
    min_value = NULL,  
    max_value = NULL,  
    x_arg = caller_arg(x),  
    call = caller_env(),  
    x_class = object_type(x)  
  )
```

```
stabilize_integer(  
  x,  
  ...,  
  allow_null = TRUE,  
  allow_na = TRUE,  
  coerce_character = TRUE,  
  coerce_factor = TRUE,  
  min_size = NULL,  
  max_size = NULL,  
  min_value = NULL,  
  max_value = NULL,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)
```

```
stabilise_int(  
  x,  
  ...,  
  allow_null = TRUE,  
  allow_na = TRUE,  
  coerce_character = TRUE,  
  coerce_factor = TRUE,  
  min_size = NULL,  
  max_size = NULL,  
  min_value = NULL,  
  max_value = NULL,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)
```

```
stabilise_integer(  
  x,  
  ...,  
  allow_null = TRUE,  
  allow_na = TRUE,  
  coerce_character = TRUE,
```

```
    coerce_factor = TRUE,
    min_size = NULL,
    max_size = NULL,
    min_value = NULL,
    max_value = NULL,
    x_arg = caller_arg(x),
    call = caller_env(),
    x_class = object_type(x)
)

stabilize_int_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_integer_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilise_int_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
```

```
    min_value = NULL,
    max_value = NULL,
    x_arg = caller_arg(x),
    call = caller_env(),
    x_class = object_type(x)
)

stabilise_integer_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  coerce_character = TRUE,
  coerce_factor = TRUE,
  min_value = NULL,
  max_value = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_int(
  x,
  ...,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_integer(
  x,
  ...,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

## S3 method for class ``NULL``
to_int(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())

## S3 method for class 'character'
to_int(
  x,
  ...,
  coerce_character = TRUE,
  x_arg = caller_arg(x),
  call = caller_env(),
```

```

    x_class = object_type(x)
  )

## S3 method for class 'factor'
to_int(
  x,
  ...,
  coerce_factor = TRUE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_int_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

to_integer_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

Arguments

| | |
|-------------------------------|---|
| <code>x</code> | The argument to stabilize. |
| <code>...</code> | Arguments passed to methods. |
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>coerce_character</code> | (length-1 logical) Should character vectors such as "1" and "2.0" be considered numeric-ish? |
| <code>coerce_factor</code> | (length-1 logical) Should factors with values such as "1" and "2.0" be considered numeric-ish? Note that this package uses the character value from the factor, while <code>as.integer()</code> and <code>as.double()</code> use the integer index of the factor. |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |

| | |
|-------------------|--|
| max_size | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| min_value | (length-1 numeric) The lowest allowed value for x. If NULL (default) values are not checked. |
| max_value | (length-1 numeric) The highest allowed value for x. If NULL (default) values are not checked. |
| x_arg | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| call | (environment) The execution environment to mention as the source of error messages. |
| x_class | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| allow_zero_length | (length-1 logical) Are zero-length vectors acceptable? |

Value

The argument as an integer vector.

See Also

Other integer functions: [are_int-ish\(\)](#), [specify_int\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_fct\(\)](#), [stabilize_lgl\(\)](#), [stabilize_lst\(\)](#), [stabilize_present\(\)](#)

Examples

```
to_int(1:10)
to_int("1")
to_int(1 + 0i)
to_int(NULL)
try(to_int(c(1, 2, 3.1, 4, 5.2)))
try(to_int("1", coerce_character = FALSE))
try(to_int(c("1", "2", "3.1", "4", "5.2")))

to_int_scalar("1")
try(to_int_scalar(1:10))

stabilize_int(1:10)
stabilize_int("1")
stabilize_int(1 + 0i)
stabilize_int(NULL)
try(stabilize_int(NULL, allow_null = FALSE))
try(stabilize_int(c(1, NA), allow_na = FALSE))
try(stabilize_int(letters))
try(stabilize_int("1", coerce_character = FALSE))
try(stabilize_int(factor(c("1", "a"))))
```

```

try(stabilize_int(factor("1"), coerce_factor = FALSE))
try(stabilize_int(1:10, min_value = 3))
try(stabilize_int(1:10, max_value = 7))

stabilize_int_scalar(1L)
stabilize_int_scalar("1")
try(stabilize_int_scalar(1:10))
try(stabilize_int_scalar(NULL))
stabilize_int_scalar(NULL, allow_null = TRUE)

```

stabilize_lgl

Ensure a logical argument meets expectations

Description

`to_lgl()` checks whether an argument can be coerced to logical without losing information, returning it silently if so. Otherwise an informative error message is signaled. `to_logical` is a synonym of `to_lgl()`.

`stabilize_lgl()` can check more details about the argument, but is slower than `to_lgl()`. `stabilise_lgl()`, `stabilize_logical()`, and `stabilise_logical()` are synonyms of `stabilize_lgl()`.

`stabilize_lgl_scalar()` and `to_lgl_scalar()` are optimized to check for length-1 logical vectors. `stabilise_lgl_scalar()`, `stabilize_logical_scalar()`, and `stabilise_logical_scalar()` are synonyms of `stabilize_lgl_scalar()`, and `to_logical_scalar()` is a synonym of `to_lgl_scalar()`.

Usage

```

stabilize_lgl(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

```

stabilize_logical(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
)

```

```
    x_class = object_type(x)
  )

stabilise_lgl(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilise_logical(
  x,
  ...,
  allow_null = TRUE,
  allow_na = TRUE,
  min_size = NULL,
  max_size = NULL,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_lgl_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

stabilize_logical_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  allow_na = TRUE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)
```

```
stabilise_lgl_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  allow_na = TRUE,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
stabilise_logical_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  allow_na = TRUE,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
to_lgl(  
  x,  
  ...,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
to_logical(  
  x,  
  ...,  
  x_arg = caller_arg(x),  
  call = caller_env(),  
  x_class = object_type(x)  
)  
  
## S3 method for class ``NULL``  
to_lgl(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())  
  
to_lgl_scalar(  
  x,  
  ...,  
  allow_null = FALSE,  
  allow_zero_length = FALSE,  
  x_arg = caller_arg(x),
```

```

    call = caller_env(),
    x_class = object_type(x)
  )

to_logical_scalar(
  x,
  ...,
  allow_null = FALSE,
  allow_zero_length = FALSE,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

Arguments

| | |
|--------------------------------|--|
| <code>x</code> | The argument to stabilize. |
| <code>...</code> | Arguments passed to methods. |
| <code>allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>allow_na</code> | (length-1 logical) Are NA values ok? |
| <code>min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>x_arg</code> | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| <code>call</code> | (environment) The execution environment to mention as the source of error messages. |
| <code>x_class</code> | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| <code>allow_zero_length</code> | (length-1 logical) Are zero-length vectors acceptable? |

Value

The argument as a logical vector.

See Also

Other logical functions: [are_lgl-ish\(\)](#), [specify_lgl\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_fct\(\)](#), [stabilize_int\(\)](#), [stabilize_lst\(\)](#), [stabilize_present\(\)](#)

Examples

```

to_lgl(TRUE)
to_lgl("TRUE")
to_lgl(1:10)
to_lgl(NULL)
try(to_lgl(NULL, allow_null = FALSE))
try(to_lgl(letters))
try(to_lgl(list(TRUE)))

to_lgl_scalar("TRUE")
try(to_lgl_scalar(c(TRUE, FALSE)))

stabilize_lgl(c(TRUE, FALSE, TRUE))
stabilize_lgl("true")
stabilize_lgl(NULL)
try(stabilize_lgl(NULL, allow_null = FALSE))
try(stabilize_lgl(c(TRUE, NA), allow_na = FALSE))
try(stabilize_lgl(letters))
try(stabilize_lgl(c(TRUE, FALSE, TRUE), min_size = 5))
try(stabilize_lgl(c(TRUE, FALSE, TRUE), max_size = 2))

stabilize_lgl_scalar(TRUE)
stabilize_lgl_scalar("TRUE")
try(stabilize_lgl_scalar(c(TRUE, FALSE, TRUE)))
try(stabilize_lgl_scalar(NULL))
stabilize_lgl_scalar(NULL, allow_null = TRUE)

```

stabilize_lst

Ensure a list argument meets expectations

Description

`stabilize_lst()` validates the structure and contents of a list. It can check that specific named elements are present and valid, that extra named elements conform to a shared rule, and that unnamed elements conform to a shared rule. `stabilise_lst()`, `stabilize_list()`, and `stabilise_list()` are synonyms of `stabilize_lst()`.

Usage

```

stabilize_lst(
  .x,
  ...,
  .named = NULL,
  .unnamed = NULL,
  .allow_duplicate_names = FALSE,
  .allow_null = TRUE,
  .min_size = NULL,
  .max_size = NULL,

```

```
.x_arg = caller_arg(.x),
.call = caller_env(),
.x_class = object_type(.x)
)

stabilize_list(
  .x,
  ...,
  .named = NULL,
  .unnamed = NULL,
  .allow_duplicate_names = FALSE,
  .allow_null = TRUE,
  .min_size = NULL,
  .max_size = NULL,
  .x_arg = caller_arg(.x),
  .call = caller_env(),
  .x_class = object_type(.x)
)

stabilise_lst(
  .x,
  ...,
  .named = NULL,
  .unnamed = NULL,
  .allow_duplicate_names = FALSE,
  .allow_null = TRUE,
  .min_size = NULL,
  .max_size = NULL,
  .x_arg = caller_arg(.x),
  .call = caller_env(),
  .x_class = object_type(.x)
)

stabilise_list(
  .x,
  ...,
  .named = NULL,
  .unnamed = NULL,
  .allow_duplicate_names = FALSE,
  .allow_null = TRUE,
  .min_size = NULL,
  .max_size = NULL,
  .x_arg = caller_arg(.x),
  .call = caller_env(),
  .x_class = object_type(.x)
)
```

Arguments

| | |
|-------------------------------------|--|
| <code>.x</code> | The argument to stabilize. |
| <code>...</code> | Named stabilizer functions, such as <code>stabilize_*</code> functions (<code>stabilize_chr()</code> , etc) or functions produced by <code>specify_*</code> () functions (<code>specify_chr()</code> , etc). Each name corresponds to a required element in <code>.x</code> , and the function is used to validate that element. |
| <code>.named</code> | A single stabilizer function, such as a <code>stabilize_*</code> function (<code>stabilize_chr()</code> , etc) or a function produced by a <code>specify_*</code> () function (<code>specify_chr()</code> , etc). This function is used to validate all named elements of <code>.x</code> that are <i>not</i> explicitly listed in <code>...</code> . If NULL (default), any extra named elements will cause an error. |
| <code>.unnamed</code> | A single stabilizer function, such as a <code>stabilize_*</code> function (<code>stabilize_chr()</code> , etc) or a function produced by a <code>specify_*</code> () function (<code>specify_chr()</code> , etc). This function is used to validate all unnamed elements of <code>.x</code> . If NULL (default), any unnamed elements will cause an error. |
| <code>.allow_duplicate_names</code> | (length-1 logical) Should <code>.x</code> be allowed to have duplicate names? If FALSE (default), an error is thrown when any named element of <code>.x</code> shares a name with another. |
| <code>.allow_null</code> | (length-1 logical) Is NULL an acceptable value? |
| <code>.min_size</code> | (length-1 integer) The minimum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>.max_size</code> | (length-1 integer) The maximum size of the object. Object size will be tested using <code>vctrs::vec_size()</code> . |
| <code>.x_arg</code> | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| <code>.call</code> | (environment) The execution environment to mention as the source of error messages. |
| <code>.x_class</code> | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |

Value

The validated list.

See Also

Other list functions: [specify_lst\(\)](#), [stabilize_present\(\)](#), [to_lst\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_fct\(\)](#), [stabilize_int\(\)](#), [stabilize_lgl\(\)](#), [stabilize_present\(\)](#)

Examples

```
# Basic validation: named required elements
```

```

stabilize_lst(
  list(name = "Alice", age = 30L),
  name = specify_chr_scalar(),
  age = specify_int_scalar()
)

# Allow any non-NULL element with stabilize_present
stabilize_lst(list(data = mtcars), data = stabilize_present)

# Allow extra named elements via .named
stabilize_lst(
  list(a = 1L, b = 2L, c = 3L),
  .named = specify_int_scalar()
)

# Allow unnamed elements via .unnamed
stabilize_lst(list(1L, 2L, 3L), .unnamed = specify_int_scalar())

# NULL is allowed by default
stabilize_lst(NULL)
try(stabilize_lst(NULL, .allow_null = FALSE))

# Enforce size constraints
try(stabilize_lst(list(a = 1L), .min_size = 2))

# Reject duplicate names by default; opt in to allow them
try(stabilize_lst(list(a = 1L, a = 2L), .named = specify_int_scalar()))
stabilize_lst(
  list(a = 1L, a = 2L),
  .named = specify_int_scalar(),
  .allow_duplicate_names = TRUE
)

```

stabilize_present *Require a value to be non-NULL*

Description

`stabilize_present()` validates that a value is not NULL. Any non-NULL value passes through unchanged. This is useful as an element specification in `stabilize_lst()` when you need to require a named element without imposing any type constraints on its value.

Usage

```

stabilize_present(
  x,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

```

Arguments

| | |
|---------|--|
| x | The argument to stabilize. |
| x_arg | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| call | (environment) The execution environment to mention as the source of error messages. |
| x_class | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |

Value

The value, unchanged.

See Also

Other list functions: [specify_lst\(\)](#), [stabilize_lst\(\)](#), [to_lst\(\)](#)

Other stabilization functions: [stabilize_arg\(\)](#), [stabilize_chr\(\)](#), [stabilize_dbl\(\)](#), [stabilize_df\(\)](#), [stabilize_fct\(\)](#), [stabilize_int\(\)](#), [stabilize_lgl\(\)](#), [stabilize_lst\(\)](#)

Examples

```
stabilize_present("any value")
stabilize_present(list(1, 2, 3))
try(stabilize_present(NULL))

# Use as a named element spec in stabilize_lst()
stabilize_lst(list(data = mtcars), data = stabilize_present)
```

to_df

Ensure a data frame argument meets expectations

Description

to_df() checks whether an argument can be coerced to a data frame, returning it silently if so. Otherwise an informative error message is signaled. to_data_frame() is a synonym of to_df().

Usage

```
to_df(
  x,
  ...,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
```

```

)

to_data_frame(
  x,
  ...,
  x_arg = caller_arg(x),
  call = caller_env(),
  x_class = object_type(x)
)

## S3 method for class '`NULL`'
to_df(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())

```

Arguments

| | |
|------------|--|
| x | The argument to stabilize. |
| ... | Arguments passed to <code>base::as.data.frame()</code> or other methods. |
| x_arg | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| call | (environment) The execution environment to mention as the source of error messages. |
| x_class | (length-1 character) The class name of the argument being stabilized to use in error messages. Use this if you remove a special class from the object before checking its coercion, but want the error message to match the original class. |
| allow_null | (length-1 logical) Is NULL an acceptable value? |

Value

The argument as a data frame.

See Also

Other data frame functions: `specify_df()`, `stabilize_df()`

Examples

```

to_df(mtcars)
to_df(list(name = "Alice", age = 30L))
to_df(NULL)
try(to_df(NULL, allow_null = FALSE))
try(to_df(c("a", "b", "c")))
to_df(letters)

```

| | |
|--------|--|
| to_lst | <i>Ensure a list argument meets expectations</i> |
|--------|--|

Description

to_lst() checks whether an argument can be coerced to a list without losing information, returning it silently if so. Otherwise an informative error message is signaled. to_list() is a synonym of to_lst().

Usage

```
to_lst(x, ..., x_arg = caller_arg(x), call = caller_env())

to_list(x, ..., x_arg = caller_arg(x), call = caller_env())

## S3 method for class 'list'
to_lst(x, ...)

## Default S3 method:
to_lst(x, ..., x_arg = caller_arg(x), call = caller_env())

## S3 method for class '`NULL`'
to_lst(x, ..., allow_null = TRUE, x_arg = caller_arg(x), call = caller_env())

## S3 method for class '`function`'
to_lst(
  x,
  ...,
  coerce_function = FALSE,
  x_arg = caller_arg(x),
  call = caller_env()
)
```

Arguments

| | |
|-----------------|--|
| x | The argument to stabilize. |
| ... | Arguments passed to <code>base::as.list()</code> or other methods. |
| x_arg | (length-1 character) The name of the argument being stabilized to use in error messages. The automatic value will work in most cases, or pass it through from higher-level functions to make error messages clearer in unexported functions. |
| call | (environment) The execution environment to mention as the source of error messages. |
| allow_null | (length-1 logical) Is NULL an acceptable value? |
| coerce_function | (length-1 logical) Should functions be coerced? |

Details

This function has important distinctions from `base::as.list()`:

- Functions can be rejected as part of the call to this function (with `coerce_function = FALSE`, the default). If they are allowed, they'll be coerced to a list concatenating their formals and body (as with `base::as.list()`).
- Primitive functions (such as `base::is.na()` or `base::is.list()`) always throw an error, rather than returning `list(NULL)`.
- NULL values can be rejected as part of the call to this function (with `allow_null = FALSE`).

Value

The argument as a list.

See Also

Other list functions: `specify_lst()`, `stabilize_lst()`, `stabilize_present()`

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