Package 'assertive'

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Type Package

Title Readable Check Functions to Ensure Code Integrity

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Description Lots of predicates (is_* functions) to check the state of your variables, and assertions (assert_* functions) to throw errors if they aren't in the right form.

URL https://bitbucket.org/richierocks/assertive

BugReports https://bitbucket.org/richierocks/assertive/issues

Depends R (>= 3.0.0)

Imports assertive.base (>= 0.0-4), assertive.properties (>= 0.0-2), assertive.types (>= 0.0-2), assertive.numbers, assertive.strings, assertive.datetimes, assertive.files, assertive.sets (>= 0.0-2), assertive.matrices, assertive.models, assertive.data, assertive.data.uk, assertive.data.us, assertive.reflection (>= 0.0-2), assertive.code, knitr

Suggests testthat

License GPL (>= 3)

LazyLoad yes

LazyData yes

VignetteBuilder knitr

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are_identical *Are the inputs identical?*

Description

See are_identical.

are_same_length *Are the inputs the same length/dimension?*

Description

See are_same_length.

are_set_equal *Set comparisons*

Description

See are_set_equal.

assertionError *Condition classes*

Description

See assertionError.

assertive *Readable check functions to ensure code integrity.*

Description

assertive contains lots of is_* functions to check the state of your variables, and assert_* functions to throw errors if they aren't in the right form.

Details

When the package loads, it creates a global option "assertive.severity" that determines what happens when an assert_* function's input fails the condition. By default, an error is thrown but it is possible to generate warnings or messages instead (see the examples).

Author(s)

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Examples

```
is_numeric(1:10)
assert_all_are_positive(1:10)
dont_stop(assert_is_scalar(runif(10)))
```

assert_engine *Throws an error if a condition isn't met*

Description

See assert_engine.

assert_is_all_of *Does x belong to these classes?*

Description

See assert_is_all_of.

bapply *Wrapper to vapply that returns booleans.*

Description

See bapply.

call_and_name *Call a function, and give the result names.*

Description

See call_and_name.

cause *Get or set the "cause" attribute*

Description

See cause.

changes *Important changes to assertive*

Description

Changes since 0.3-0:

Virtuality

The assertive package is now a virtual package: that is, it no longer contains its own functions, but instead rexports them from lower-level packages.

For interactive use, you can carry on using assertive as before.

For programmatic use, you can have more fine-grained control over what gets loaded by using the lower-level packages.

assertive.base contains the core functionality. assertive.properties contains checks on properties of variables. assertive.types contains checks on types of variables. assertive.numbers contains checks for numbers. assertive.strings contains checks for strings. assertive.datetimes contains checks for dates and times. assertive.files contains checks for files and connections. assertive.sets contains checks for sets. assertive.matrices contains checks for matrices. assertive.models contains checks for models. assertive.data contains checks for complex data types. assertive.data.uk contains checks for UK-specific complex data types. assertive.data.us contains checks for US-specific complex data types. assertive.reflection contains checks on the state of R. assertive.code contains checks for code.

Translations

The infrastructure for errors and warnings in multiple langauges is in place, and translations are planned for future versions. If you want to be a translator, email me at <richierocks@gmail.com>.

character_to_list_of_integer_vectors *Convert a character vector to a list of integer vectors See* character_to_list_of_integer_vectors.

Description

Convert a character vector to a list of integer vectors

See character_to_list_of_integer_vectors.

coerce_to *Coerce variable to a different class*

Description

See coerce_to.

DIM *Get the dimensions of an object*

Description

See DIM.

See DIM.

dont_stop *Run code without stopping*

Description

See dont_stop.

false *FALSE, with a cause of failure*

Description

See false.

get_name_in_parent *Get the name of a variable in the parent frame*

Description

See get_name_in_parent.

has_any_attributes *Does the input have any attributes?*

Description

See has_any_attributes.

has_arg *Does the current call have an argument? See has_arg.*

Description

Does the current call have an argument?

See has_arg.

has_attributes *Does the input have the specified attributes?*

Description

See has_attributes.

has_cols *Does the input have rows/columns?*

Description

See has_cols.

has_dims *Does the input have dimensions?*

Description

See has_dims.

has_duplicates *Does the input have duplicates?*

Description

See has_duplicates.

has_names *Does the input have names?*

Description

See has_names.

has_slot *Does the S4 input have a slot?*

Description

See has_slot.

has_terms *Does the input have terms?*

Description

See has_terms.

is2 — *Alternative version of is*

Description

See is2.

is_array — *Is the input an array or matrix?*

Description

See is_array.

is_atomic — *Is the input atomic/recursive/vector?*

Description

See is_atomic.

is_batch_mode — *How is R running?*

Description

See is_batch_mode.

is_binding_locked — *Is the binding of a variable locked? See* is_binding_locked.

Description

Is the binding of a variable locked?

See is_binding_locked.

is_cas_number — *Does the character vector contain CAS registry numbers?*

Description

See is_cas_number.

is_character — *Is the input of type character?*

Description

See is_character.

is_class — *Is the input the name of a (formally defined) class?*

Description

See is_class.

is_closure_function — *Is the input a closure, builtin or special function?*

Description

See is_closure_function.

is_complex — *Is the input complex?*

Description

See is_complex.

is_connection *Is the input a connection?*

Description

See is_connection.

is_credit_card_number *Does the character vector contain credit card numbers?*

Description

See is_credit_card_number.

is_data.frame *Is the input is a data.frame?*

Description

See is_data.frame.

is_data.table *Is the input a data.table?*

Description

See is_data.table.

is_date *Is the input a date?*

Description

See is_date.

is_date_string *Does the character vector contain dates?*

Description

See is_date_string.

is_debugged *Is the input function being debugged? See* is_debugged.

Description

Is the input function being debugged?

See is_debugged.

is_diagonal_matrix *Is the input a diagonal matrix?*

Description

See is_diagonal_matrix.

is_dir *Is the path a directory?*

Description

See is_dir.

is_divisible_by *Is the input divisible by a number?*

Description

See is_divisible_by.

is_email_address *Does the character vector contain email addresses?*

Description

See is_email_address.

is_empty *Is the input empty/scalar?*

Description

See is_empty.

is_empty_character *Does the input contain empty or missing strings?*

Description

See is_empty_character.

is_empty_file *Is a file too big or small?*

Description

See is_empty_file.

is_empty_model *Is the input the empty model?*

Description

See is_empty_model.

is_environment *Is the input an environment?*

Description

See is_environment.

is_equal_to *How does the input relate to a value?*

Description

See is_equal_to.

is_error_free *Does the code run without throwing an error? See is_error_free.*

Description

Does the code run without throwing an error?

See is_error_free.

is_executable_file *Is the file accessible?*

Description

See is_executable_file.

is_existing *Does the variable exist? See is_existing.*

Description

Does the variable exist?

See is_existing.

is_existing_file *Does the file exist?*

Description

See is_existing_file.

is_externalptr *Is the input an external pointer?*

Description

See is_externalptr.

is_factor *Is the input a factor?*

Description

See is_factor.

is_finite *Are the inputs (in)finite?*

Description

See is_finite.

is_formula *Is the input a formula?*

Description

See is_formula.

`is_function` *Is the input a function?*

Description

See `is_function`.

`is_hex_color` *Does the character vector contain hex colors?*

Description

See `is_hex_color`.

`is_honorific` *Is the string an honorific?*

Description

See `is_honorific`.

`is_identity_matrix` *Is the input an identity matrix?*

Description

See `is_identity_matrix`.

`is_if_condition` *Is suitable to be used as an if condition See* `is_if_condition`.

Description

Is suitable to be used as an if condition

See `is_if_condition`.

is_inherited_from *Does the object inherit from some class?*

Description

See is_inherited_from.

is_integer *Is the input an integer?*

Description

See is_integer.

is_internal_function *Is the input an internal function?*

Description

See is_closure_function.

is_in_past *Is the input in the past/future?*

Description

See is_in_past.

is_in_range *Is the input in range?*

Description

See is_in_range.

is_ip_address — *Does the character vector contain IP addresses?*

Description

See is_ip_address.

is_isbn_code — *Does the character vector contain ISBN book codes?*

Description

See is_isbn_code.

is_language — *Is the input a language object?*

Description

See is_language.

is_leaf — *Is the input a (dendrogram) leaf?*

Description

See is_leaf.

is_library — *Is the directory a known R library?*

Description

See is_library.

is_list — *Is the input a list?*

Description

See is_list.

is_loaded — *Is the input DLL loaded? See* is_loaded.

Description

Is the input DLL loaded?

See is_loaded.

is_logical — *Is the input logical?*

Description

See is_logical.

is_lower_triangular_matrix — *Is the matrix upper/lower triangular?*

Description

See is_lower_triangular_matrix.

is_matching_fixed — *Does the string match a pattern? See* is_matching_fixed.

Description

Does the string match a pattern?

See is_matching_fixed.

`is_monotonic_increasing` *Is the vector monotonically increasing or decreasing?*

Description

See `is_monotonic_increasing`.

`is_nan` *Is the input (not) NaN?*

Description

See `is_nan`.

`is_null` *Checks to see if the input is (not) null.*

Description

See `is_null`.

`is_numeric` *Is the input numeric?*

Description

See `is_numeric`.

`is_numeric_string` *Does the string contain a number? See* `is_numeric_string`.

Description

Does the string contain a number?

See `is_numeric_string`.

is_on_os_path *Is the path on the OS path?*

Description

See is_on_os_path.

is_package_current *Is the installed version of a package current?*

Description

See is_package_current.

is_qr *Is the input a QR decomposition of a matrix?*

Description

See is_qr.

is_r *Are you running R?*

Description

See is_r.

is_raster *Is the input a raster?*

Description

See is_raster.

is_raw *Is the input raw?*

Description

See is_raw.

is_real *Is the input real/imaginary?*

Description

See is_real.

is_relistable *Is the input relistable?*

Description

See is_relistable.

is_rstudio_current *Is RStudio the current version?*

Description

See is_rstudio_current.

is_rstudio_desktop *Is RStudio running in desktop or server mode?*

Description

See is_rstudio_desktop.

is_r_current *Is this version of R up to date?*

Description

See is_r_current.

is_s3_generic *Is the input an S3 generic or method?*

Description

See is_s3_generic.

is_s4 *Is the input an S4 object?*

Description

See is_s4.

is_single_character *Is the input a single character? See* is_single_character.

Description

Is the input a single character?

See is_single_character.

is_square_matrix *Is the input a square matrix?*

Description

See is_square_matrix.

is_symmetric_matrix *Is the input a symmetric matrix?*

Description

See is_symmetric_matrix.

is_table *Is the input a table?*

Description

See is_table.

is_tbl *Is the input a tbl?*

Description

See is_tbl.

is_try_error *Is the input a condition?*

Description

See is_try_error.

is_ts *Is the input a time series?*

Description

See is_ts.

is_uk_car_licence *Is the string a valid UK car licence plate number?*

Description

See is_uk_car_licence.

is_uk_national_insurance_number *Is the string a valid UK national insurance number?*

Description

See is_uk_national_insurance_number.

is_uk_postcode *Is the string a valid UK postcode?*

Description

See is_uk_postcode.

is_uk_telephone_number *Is the string a valid UK telephone number?*

Description

See is_uk_telephone_number.

is_unsorted *Is the input unsorted?*

Description

See is_unsorted.

`is_us_social_security_number` *Is the string a valid US SSN?*

Description

See `is_us_social_security_number`.

`is_us_telephone_number` *Is the string a valid US telephone number?*

Description

See `is_us_telephone_number`.

`is_us_zip_code` *Is the string a valid US zip code?*

Description

See `is_us_zip_code`.

`is_valid_r_code` *Is the input valid R code? See* `is_valid_r_code`.

Description

Is the input valid R code?

See `is_valid_r_code`.

`is_valid_variable_name` *Is the string a valid variable name? See* `is_valid_variable_name`.

Description

Is the string a valid variable name?

See `is_valid_variable_name`.

is_whole_number *Is the input a whole number?*

Description

See is_whole_number.

is_windows *What OS is running?*

Description

See is_windows.

is_xxx_for_decimal_point *What does the current locale specify for the decimal point?*

Description

See is_xxx_for_decimal_point.

is_zero_matrix *Is the input a zero matrix?*

Description

See is_zero_matrix.

merge_dots_with_list *Merge ellipsis args with a list.*

Description

See merge_dots_with_list.

na *NA, with a cause of failure*

Description

See na.

n_elements *Get the number of elements*

Description

See n_elements.

parenthesize *Wrap a string in brackets*

Description

See parenthesize.

print_and_capture *Print a variable and capture the output*

Description

See print_and_capture.

r_can_find_tools *Can R find tools?*

Description

See r_can_find_tools.

r_has_jpeg_capability *Does R have a capability?*

Description

See r_has_jpeg_capability.

safe_deparse *Safe version of deparse*

Description

See safe_deparse.

set_cause *Set a cause and return the input*

Description

See set_cause.

strip_attributes *Strip all attributes from a variable*

Description

See strip_attributes.

sys_get_locale *Get or set the system locale*

Description

See sys_get_locale.

Truth — *Is the input TRUE/FALSE/NA?*

Description

See Truth.

use_first — *Only use the first element of a vector*

Description

See use_first.

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