

Package ‘assertive.models’

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Type Package

Title Assertions to Check Properties of Models

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Description A set of predicates and assertions for checking the properties of models. This is mainly for use by other package developers who want to include run-time testing features in their own packages. End-users will usually want to use assertive directly.

URL <https://bitbucket.org/richierocks/assertive.models>

BugReports <https://bitbucket.org/richierocks/assertive.models/issues>

Depends R (>= 3.0.0)

Imports assertive.base (>= 0.0-2), stats

Suggests testthat

License GPL (>= 3)

LazyLoad yes

LazyData yes

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Collate 'imports.R' 'assert-has-terms.R' 'assert-is-empty-model.R' 'has-terms.R' 'is-empty-model.R'

RoxygenNote 6.1.0

NeedsCompilation no

Repository CRAN

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R topics documented:

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| | |
|------------------|-----------------------------------|
| assert_has_terms | <i>Does the input have terms?</i> |
|------------------|-----------------------------------|

Description

Checks to see if the input has a terms component or attribute.

Usage

```
assert_has_terms(x, severity = getOption("assertive.severity", "stop"))
```

```
has_terms(x, .xname = get_name_in_parent(x))
```

Arguments

| | |
|----------|---|
| x | Input to check. |
| severity | How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none". |
| .xname | Not intended to be used directly. |

Value

has_terms returns TRUE if the input has an element or an attribute named terms. assert_has_terms returns nothing but throws an error if has_terms is not TRUE.

See Also

[terms](#).

Examples

```
model <- lm(uptake ~ conc, datasets::C02)
# this works because model$terms is not null
assert_has_terms(model)
```

assert_is_empty_model *Is the input the empty model?*

Description

Checks to see if the input is the empty model.

Usage

```
assert_is_empty_model(x, severity = getOption("assertive.severity",
  "stop"))

assert_is_non_empty_model(x, severity = getOption("assertive.severity",
  "stop"))

is_empty_model(x, .xname = get_name_in_parent(x))

is_non_empty_model(x, .xname = get_name_in_parent(x))
```

Arguments

| | |
|----------|---|
| x | Input to check. |
| severity | How severe should the consequences of the assertion be? Either "stop", "warning", "message", or "none". |
| .xname | Not intended to be used directly. |

Value

is_[non_]empty_model returns TRUE if the input is an [non] empty model. (has_terms is used to determine that a variable is a model object.) The model is considered empty if there are no factors and no intercept. The assert_* functions return nothing but throw an error if the corresponding is_* function returns FALSE.

See Also

[is.empty.model](#) and [is.empty](#).

Examples

```
# empty models have no intercept and no factors
an_empty_model <- lm(uptake ~ 0, CO2)
is_empty_model(an_empty_model)

a_model_with_an_intercept <- lm(uptake ~ 1, CO2)
a_model_with_factors <- lm(uptake ~ conc * Type, CO2)
is_non_empty_model(a_model_with_an_intercept)
is_non_empty_model(a_model_with_factors)

assertive.base::dont_stop(assert_is_empty_model(a_model_with_factors))
```

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