

# Package: modeltests (via r-universe)

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**Type** Package

**Title** Testing Infrastructure for Broom Model Generics

**Version** 0.1.6.9000

**Description** Provides a number of testthat tests that can be used to verify that tidy(), glance() and augment() methods meet consistent specifications. This allows methods for the same generic to be spread across multiple packages, since all of those packages can make the same guarantees to users about returned objects.

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**URL** <https://github.com/alexpghayes/modeltests>

**BugReports** <https://github.com/alexpghayes/modeltests/issues>

**Depends** R (>= 3.1)

**Imports** dplyr (>= 0.7.6), generics, purrr (>= 0.2.5), testthat (>= 2.0.0), tibble (>= 3.0.0)

**Suggests** covr

**Encoding** UTF-8

**LazyData** true

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.3

**Repository** <https://alexpghayes.r-universe.dev>

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acceptable\_augment\_colnames  
*Determine acceptable names for augment output*

---

## Description

Given a data frame (or tibble), and a model object, makes a character vector of acceptable column names for augment output. This includes:

- Any column names of the passed dataset
- Any syntactically correct column names generated by calling `stats::model.frame()` on the object in question.

## Usage

```
acceptable_augment_colnames(object, passed_data)
```

## Arguments

`object`            A model object.  
`passed_data`        The dataset used to create the model object.

## Value

A vector of colnames that are acceptable in augment output.

---

argument_glossary	<i>Allowed argument names in tidiers</i>
-------------------	--

---

**Description**

Allowed argument names in tidiers

**Usage**

```
argument_glossary
```

**Format**

A tibble with 3 variables:

**method** One of "glance", "augment" or "tidy".

**argument** Character name of allowed argument name.

**description** Character description of argument use.

**Examples**

```
argument_glossary
```

---

check_arguments	<i>Check that tidying methods use allowed argument names</i>
-----------------	--

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**Description**

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

Tests when `strict = FALSE`:

- None

Tests when `strict = TRUE`:

- `tidy_method` has a `conf.int` argument if it has a `conf.level` argument.
- `tidy_method` has a `conf.level` argument if it has a `conf.int` argument.
- `conf.int` defaults to `FALSE` when present.
- `conf.level` defaults to `'0.95'` when present.
- `exponentiate` defaults to `FALSE` when present.
- All arguments to `tidy_method` are listed in the [argument\\_glossary](#).

**Usage**

```
check_arguments(tidy_method, strict = TRUE)
```

**Arguments**

tidy_method	A tidying method. For example: glance.Arima.
strict	Logical indicating whether the strict version of tests should be used. Defaults to TRUE.

**Value**

An invisible NULL. This function should be called for side effects, not return values.

**See Also**

[testthat](#), [testthat::expect\\_true\(\)](#)

---

check\_augment\_function

*Check an augment method*

---

**Description**

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

Test when strict = FALSE:

- `aug(model, data = data)` passes [check\\_tibble\(\)](#)
- `aug(model, newdata = newdata)` passes [check\\_tibble\(\)](#)

Additional tests when strict = TRUE:

- `aug(model, data = data)` passes [check\\_augment\\_data\\_specification\(\)](#).
- `aug(model, newdata = newdata)` passes [check\\_augment\\_data\\_specification\(\)](#).
- `aug(model, newdata = newdata)` passes [check\\_augment\\_data\\_specification\(\)](#) with `add_missing = TRUE`.
- If `aug` has a `newdata` argument, the `newdata` argument takes precedence over a `data` argument, i.e. calls [check\\_augment\\_newdata\\_precedence\(\)](#).
- `aug` either gives an informative error or produces a reasonable tibble, i.e. calls [check\\_augment\\_no\\_data\(\)](#).

Note that it doesn't make sense to test that `aug(model, data = data)` passes [check\\_augment\\_data\\_specification\(\)](#) with `add_missing = TRUE`. This is because the user is already guaranteeing that `data` is the original dataset used to create `model`.

**Usage**

```
check_augment_function(aug, model, data = NULL, newdata = NULL, strict = TRUE)
```

**Arguments**

aug	An augment method. For example, <code>augment.betareg</code> .
model	A fit model object to call the augment method on.
data	A data frame or tibble to use when testing aug.
newdata	A dataset to use to check the newdata behavior, ideally distinct for the dataset used to check the data behavior.
strict	Logical indicating whether the strict version of tests should be used. Defaults to TRUE.

**Value**

An invisible NULL. This function should be called for side effects, not return values.

---

check\_augment\_newdata\_precedence

*Check that newdata argument has higher precedence than data argument*

---

**Description**

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

**Usage**

```
check_augment_newdata_precedence(aug, model, data, strict = TRUE)
```

**Arguments**

aug	An augment method. For example, <code>augment.betareg</code> .
model	A fit model object to call the augment method on.
data	A data frame or tibble to use when testing aug.
strict	Logical indicating whether the strict version of tests should be used. Defaults to TRUE.

**Value**

An invisible NULL. This function should be called for side effects, not return values.

---

check\_augment\_no\_data *Check an augment method when no data or newdata is passed*

---

### Description

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

Test when `strict = FALSE`:

- None

Additional tests when `strict = TRUE`:

- `aug(model)` either returns an informative error or produces output that passes `check_tibble()`.
- If the output passes `check_tibble`, will issue warning when:
  - Augmented data is missing rows from original data.
  - Augmented data is missing columns from original data.
  - Original data has rownames but ugmented data is missing `.rownames` column.

### Usage

```
check_augment_no_data(aug, model, passed_data, strict = TRUE)
```

### Arguments

<code>aug</code>	An augment method. For example, <code>augment.betareg</code> .
<code>model</code>	A fit model object to call the augment method on.
<code>passed_data</code>	The dataset that <code>model</code> was original fit on that <code>aug</code> should try to reconstruct when neither <code>data</code> nor <code>newdata</code> is specified.
<code>strict</code>	Logical indicating whether the strict version of tests should be used. Defaults to <code>TRUE</code> .

### Value

An invisible `NULL`. This function should be called for side effects, not return values.

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check_dims	<i>Check that tibble has expected dimensions.</i>
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### Description

Check that tibble has expected dimensions.

### Usage

```
check_dims(data, expected_rows = NULL, expected_cols = NULL)
```

### Arguments

data	A tibble or data frame.
expected_rows	Expected number of rows of tibble.
expected_cols	Expected number of columns of tibble.

### Examples

```
check_dims(iris, expected_rows = 150)
```

---

check_glance_outputs	<i>Check the output of a glance method</i>
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### Description

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

Tests when `strict = FALSE`:

- Each item passed to ... passes `check_tibble()`
- Each item passed to ... has exactly 1 row.

Additional tests when `strict = TRUE`:

- Column names and order agree across all elements of ....

### Usage

```
check_glance_outputs(..., strict = TRUE)
```

### Arguments

...	Outputs returned from calls to (the same) <code>glance</code> method.
strict	Logical indicating whether the strict version of tests should be used. Defaults to TRUE.

**Value**

An invisible NULL. This function should be called for side effects, not return values.

**See Also**

[check\\_tibble\(\)](#)

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check\_tibble

*Check the output of a tidying method*

---

**Description**

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

Tests when `strict = FALSE`:

- output is a tibble.

Additional tests when `strict = TRUE`:

- columns are listed in the [column\\_glossary](#).

**Usage**

```
check_tibble(output, method, columns = colnames(output), strict = TRUE)
```

**Arguments**

output	Object returned from <a href="#">tidy()</a> , <a href="#">augment()</a> or <a href="#">glance()</a> .
method	One of "tidy", "augment" or "glance". Determines which set of column name checks are applied.
columns	The names of the columns in the output data frame. Defaults to the column names of output. Useful when checking <a href="#">augment()</a> when you only want to check the new columns in the data frame, as opposed to all columns.
strict	Logical indicating whether the strict version of tests should be used. Defaults to TRUE.

**Details**

Do not call directly. Helper function used by [check\\_tidy\\_output\(\)](#), [check\\_glance\\_outputs\(\)](#) and [check\\_augment\\_function\(\)](#).

**Value**

An invisible NULL. This function should be called for side effects, not return values.



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check_tidy_output	<i>Check the output of a tidy method</i>
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### Description

Call this function to perform tests. If a tests fails, an informative error will be thrown. Otherwise silent.

A thin wrapper around `check_tibble()`.

### Usage

```
check_tidy_output(td, strict = TRUE)
```

### Arguments

td	Output from a tidy method.
strict	Logical indicating whether the strict version of tests should be used. Defaults to TRUE.

### Value

An invisible NULL. This function should be called for side effects, not return values.

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column_glossary	<i>Allowed column names in tidied tibbles</i>
-----------------	---

---

### Description

Allowed column names in tidied tibbles

### Usage

```
column_glossary
```

### Format

A tibble with 4 variables:

**method** One of "glance", "augment" or "tidy".

**column** Character name of allowed output column.

**description** Character description of expected column contents.

### Examples

```
column_glossary
```

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has_rownames	<i>Check whether or not a data-frame-like object has rownames</i>
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**Description**

Check whether or not a data-frame-like object has rownames

**Usage**

```
has_rownames(df)
```

**Arguments**

df                    A data frame

**Value**

Logical indicating if df has rownames. If df is a tibble, returns FALSE. If df is a data.frame, return FALSE if the rownames are simply row numbers. If the rownames are anything other than the return row numbers, returns TRUE.

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