

Package ‘JuliaFormulae’

January 20, 2025

Title Translate R Regression Model Formulae to 'Julia' Syntax

Version 0.1.0

Description Metaprogramming utilities for converting R regression model formulae to equivalents in 'Julia' <[doi:10.1137/141000671](https://doi.org/10.1137/141000671)>, via modifications to the abstract syntax tree. Supports translations in zero correlation random effects syntax, protection of expressions to be evaluated as-is, interaction terms, and more. Accepts strings or R formula objects and returns modified R formula objects where possible (or a modified string, if not a valid formula in R).

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Depends R (>= 4.1.0)

Imports rapply, stats, utils

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.1

NeedsCompilation no

Author June Choe [aut, cre] (<<https://orcid.org/0000-0002-0701-921X>>)

Maintainer June Choe <jchoe001@gmail.com>

Repository CRAN

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has_bars	<i>Utilities for formula random effects structure</i>
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Description

Utilities for formula random effects structure

Usage

```
has_bars(x, type = c("both", "single", "double"))
```

```
find_bars(x)
```

```
no_bars(x)
```

Arguments

x A formula object

type One of "both", "single", or "double". Defaults to "both".

Value

A modified formula object

Examples

```
has_bars(y ~ x)
has_bars(y ~ x + (x | g))
has_bars(y ~ x + (x | g), type = "double")
```

```
find_bars(y ~ x)
find_bars(y ~ x + (x | g))
```

```
no_bars(y ~ x)
no_bars(y ~ x + (x | g))
```

julia_formula	<i>Convert R formula to Julia syntax</i>
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Description

Convert R formula to Julia syntax

Usage

```
julia_formula(x)
```

Arguments

x A formula object

Value

A Julia-compatible formula object

Examples

```
julia_formula(y ~ a)
```

```
julia_formula(y ~ a + I(a ^ 2) + (a || b))
```

Index

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