

Package ‘rtern’

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Title A Ternary Conditional Operator for R

Version 0.1.1

Description A small language extension for succinct conditional assignment using `?` and `:`, emulating the conditional ternary operator syntax using in C, Java, JavaScript and other languages.

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Encoding UTF-8

RoxygenNote 7.1.1

URL <https://github.com/grddavies/rtern>

BugReports <https://github.com/grddavies/rtern/issues>

Suggests covr, testthat (>= 3.0.0), spelling

Config/testthat/edition 3

Language en-US

Imports utils, lifecycle

NeedsCompilation no

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?

*Succinct conditional evaluation and assignment***Description****[Experimental]**

? is an in-line if/else operator

Usage

```
lhs ? rhs
```

Arguments

lhs	A logical expression, vector or matrix.
rhs	A pair of values separated by a colon i.e. value_if_true : value_if_false.

Details

The syntax for ? is as follows:

```
condition ? value_if_true : value_if_false
```

The condition is evaluated TRUE or FALSE as a Boolean expression. On the basis of the evaluation of the Boolean condition, the entire expression returns value_if_true if condition is true, but value_if_false otherwise. In the case where the condition is a vector/matrix of Boolean values, the function returns a vector/matrix where each element is either value_if_true or value_if_false based on the truthiness of the elements of the logical matrix on the left-hand side.

Who has time for if/else?

Value

One of the values in rhs, depending on the truthiness of lhs.

Examples

```
# Conditional evaluation
4 > 3 ? "it_was_true":"it_was_false"
# > "it_was_true"

FALSE ? "it_was_true":"it_was_false"
# > "it_was_false"

# Vectorised evaluation
c(4, 2) < 3 ? "it_was_true":"it_was_false"
# > "it_was_false" "it_was_true"

# Conditional assignment with `<-`
x <- 4 > 3 ? "it_was_true":"it_was_false"
```

```
x
# > "it_was_true"

# Conditional assignment with `=`
y <- 3 > 4 ? "it_was_true":"it_was_false"
y
# > "it_was_false"

# Chaining `?` statements
z <- FALSE ? "true":(FALSE ? "false,true):(TRUE ? "false,false,true":"all false")
z
# > "false,false,true"
```

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