Package: rtype (via r-universe)

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Type Package

Title A strong type system for R

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Description A strong type system for R which supports symbol declaration and assignment with type checking and condition checking.

Depends R (>= 2.15)

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Suggests testthat, knitr

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URL http://renkun.me/rtype, https://github.com/renkun-ken/rtype

BugReports https://github.com/renkun-ken/rtype/issues

Roxygen list(wrap = FALSE)

ByteCompile TRUE

Repository https://renkun-ken.r-universe.dev

RemoteUrl https://github.com/renkun-ken/rtype

RemoteRef HEAD

RemoteSha 1bdfb129002c89619b02ed120202ad1a2b7c48da

Contents

declare *Declare symbols*

Description

Declare symbols

Usage

```
declare(..., .envir = parent.frame())
```

Arguments

`...`	Symbols to declare
`.envir`	`environment` to store the symbols

Examples

```
declare(x,y=numeric(),z=integer())
```

typed-assign *Assign with type checking*

Description

Assign with type checking

Usage

```
atomic(x, ...) <- value

integer(x, ...) <- value

numeric(x, ...) <- value

double(x, ...) <- value

logical(x, ...) <- value

character(x, ...) <- value

raw(x, ...) <- value

complex(x, ...) <- value
```

```
matrix(x, ...) <- value

array(x, ...) <- value

list(x, ...) <- value

pairlist(x, ...) <- value

envir(x, ...) <- value

name(x, ...) <- value

symbol(x, ...) <- value

call(x, ...) <- value

factor(x, ...) <- value

fun(x, ...) <- value

expression(x, ...) <- value

language(x, ...) <- value

object(x, ...) <- value

table(x, ...) <- value

recursive(x, ...) <- value

vector(x, ...) <- value

data.frame(x, ...) <- value

null(x, ...) <- value

check(x, ...) <- value
```

Arguments

x	symbol
...	additional conditions taking the following forms: 1. fun = v, i.e. fun(x) must be equal v. 2. cond, i.e. cond(x) must be TRUE. 3. a function like function(x) mean(x) <= 5.0
value	value to be assigned

Examples

```
## Not run:
x <- 10L
atomic(x) <- 20
numeric(x) <- 10
numeric(x, length = 10L) <- 1:10

cond1 <- function(x) mean(x) <= 5
numeric(x, cond1) <- 0:9

## End(Not run)
```

Index