Package 'listenv'

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Depends R (>= 3.1.2)

Suggests R.utils, R.rsp, markdown

VignetteBuilder R.rsp

Title Environments Behaving (Almost) as Lists

Description List environments are environments that have list-like properties. For instance, the elements of a list environment are ordered and can be accessed and iterated over using index subsetting, e.g. 'x <- listenv(a = 1, b = 2); for (i in seq_along(x)) x[[i]] <- x[[i]] ^ 2; y <- as.list(x)'.

License Apache License (>= 2)

LazyLoad TRUE

URL https://listenv.futureverse.org, https://github.com/futureverse/listenv

BugReports https://github.com/futureverse/listenv/issues

Encoding UTF-8

Language en-US

Config/roxygen2/version 8.1.0

NeedsCompilation no

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Contents

aperm.listenv 2
dim_na 3
listenv 3

Index **5**

`aperm.listenv` *Transpose a 'listenv' array by permuting its dimensions*

Description

Transpose a 'listenv' array by permuting its dimensions

Usage

```
## S3 method for class 'listenv'
aperm(a, perm, ...)

## S3 method for class 'listenv'
t(x)
```

Arguments

`a`, `x`	(listenv) The list environment to be transposed
`perm`	(integer vector) An index vector of length `dim(a)`
`...`	Additional arguments passed to `base::aperm()`.

Value

Returns a list environment with permuted dimensions

See Also

These functions work like `base::aperm()` and `base::t()`.

Examples

```
x <- as.listenv(1:6)
dim(x) <- c(2, 3)
dimnames(x) <- list(letters[1:2], LETTERS[1:3])
print(x)

x <- t(x)
print(x)

x <- aperm(x, perm = 2:1)
print(x)
```

dim_na *Set the dimension of an object*

Description

Set the dimension of an object

Usage

```
dim_na(x) <- value
```

Arguments

x	An R object, e.g. a list environment, a matrix, an array, or a data frame.
value	A numeric vector coerced to integers. If one of the elements is missing, then its value is inferred from the other elements (which must be non-missing) and the length of x.

Value

An object with the dimensions set, similar to what `dim(x) <- value` returns.

Examples

```
x <- 1:6
dim_na(x) <- c(2, NA)
print(dim(x))  ## [1] 2 3
```

listenv *Create a list environment*

Description

Create a list environment

Usage

```
listenv(...)

as.listenv(...)
```

Arguments

...	(optional) Named and/or unnamed objects to be assigned to the list environment.

Value

An environment of class `listenv`.

Examples

```
x <- listenv(c = 2, a = 3, d = "hello")
print(names(x))
names(x)[2] <- "A"
x$b <- 5:8

y <- as.list(x)
str(y)

z <- as.listenv(y)
```

Index

aperm.listenv, 2
as.listenv *(*listenv*)*, 3

base::aperm(), *2*
base::t(), *2*

dim_na, 3
dim_na<- *(*dim_na*)*, 3

listenv, 3

t.listenv *(*aperm.listenv*)*, 2