

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 LGPL (>= 2.1)

LazyLoad TRUE

URL <https://listenv.futureverse.org>,
<https://github.com/HenrikBengtsson/listenv>

BugReports <https://github.com/HenrikBengtsson/listenv/issues>

RoxygenNote 7.3.1

NeedsCompilation no

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Repository CRAN

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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 works 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	<i>Set the dimension of an object</i>
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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	<i>Create a list environment</i>
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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)
```

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