

# Package: listenv (via r-universe)

August 26, 2024

**Version** 0.9.1

**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

**Roxygen** list(markdown = TRUE)

**Repository** <https://henrikbengtsson.r-universe.dev>

**RemoteUrl** <https://github.com/HenrikBengtsson/listenv>

**RemoteRef** master

**RemoteSha** 8d86a51639c2857dd5ad44ac4c653e4b0acc94a3

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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 <a href="#">base::aperm()</a> .

## 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)
```

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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
```

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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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