Package ‘listenv’

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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)
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            https://github.com/HenrikBengtsson/listenv
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aperm.listenv  Transpose a 'listenv' array by permuting its dimensions

Description

Transpose a 'listenv' array by permuting its dimensions

Usage

```r
## 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

```r
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

```r
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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