Package: diagonals (via r-universe)

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Title Blo	ck Diagonal Extraction of Replacement
Version (5.4.0
sim be e here diag con data	on Several tools for handling block-matrix diagonals and ilar constructs are implemented. Block-diagonal matrices can extracted or removed using two small functions implemented e. In addition, non-square matrices are supported. Block gonal matrices occur when two dimensions of a data set are abined along one edge of a matrix. For example, trade-flow a in the 'decompr' and 'gvc' packages have each intry-industry combination occur along both edges of the rix.
•	R (>= 2.10)
License (GPL-3
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Description

Several tools for handling block-matrix diagonals and similar constructs are implemented. Block-diagonal matrices can be extracted or removed using two small functions implemented here. In addition, non-square matrices are supported. Block diagonal matrices occur when two dimensions of a data set are combined along one edge of a matrix. For example, trade-flow data in the decompr' and 'gvc' packages have each country-industry combination occur along both edges of the matrix.

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See Also

https://qua.st/diagonals

fatdiag	Fat Matrix Diagonals

Description

Fat Matrix Diagonals fatdiag set

Usage

```
fatdiag(x = 1, steps = NULL, size = NULL, nrow = NULL, ncol = NULL) fatdiag(x, steps = NULL, size = NULL, on\_diagonal = TRUE) <- value
```

Arguments

X	a matrix where the dimensions are integer multiples of size or integer dividors of steps
steps	the required number of steps (block matrices) across the diagonal
size	the width or height of the matrix being dropped over the diagonal of matrix x
nrow	the number of rows
ncol	the number of columns
on_diagonal	should the operation be applied to the elements on the fat diagonal.
value	replacement value

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Details

Either steps or size is expected to be provided.

Functions

• fatdiag<-: the set version of fatdiag

Examples

```
fatdiag(12, steps=3)

( m <- matrix(111, nrow=6, ncol=9) )
fatdiag(m, steps=3) <- 5

fatdiag(m, steps=3)

fatdiag(12, size=4)

fatdiag(12, size=c(3,4) )</pre>
```

split_vector

Split Vector

Description

Split Vector

Usage

```
split_vector(x, steps = NULL, size = NULL, replacement = 0)
```

Arguments

x a numeric or character vector

steps the number of steps size the size of the step

replacement value to be inserted on the diagonal, by default this is zero (0).

Details

Either steps or size is expected to be provided.

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