

# Package ‘interleave’

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**Type** Package

**Title** Converts Tabular Data to Interleaved Vectors

**Version** 0.1.0

**Date** 2020-10-21

**Description** Converts matrices and lists of matrices into a single vector by interleaving their values. That is, each element of the result vector is filled from the input matrices one row at a time. This is the same as transposing a matrix, then removing the dimension attribute, but is designed to operate on matrices in nested list structures.

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**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.0

**LinkingTo** geometries, Rcpp

**Imports** geometries, Rcpp

**Suggests** covr, sfheaders, tinytest

**SystemRequirements** C++11

**NeedsCompilation** yes

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**Repository** CRAN

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interleave

*Interleave*

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### Description

Converts matrices and lists of matrices into a vector. The elements of the vector are taken from the matrices one row at a time.

### Usage

```
interleave(x)
```

### Arguments

x                    object to interleave

### Value

vector of interleaved values

### Examples

```
## matrix (this is equivalent to a LINESTRING in spatial structures)
m1 <- matrix(1:20, ncol = 2, byrow = TRUE )
interleave( m1 )

## This is the same as transposing and removing the 'dim' attribute
tm <- t(m1)
attr( "dim" ) <- NULL
all( interleave( m1 ) == tm )

## list of matrices (this is equivalent to a POLYGON in spatial structures)
m2 <- matrix(20:1, ncol = 2, byrow = TRUE )
l <- list( m1, m2 )
interleave( l )

## nested list of matrices
l <- list( m1, list( list( m2 ) ) )
interleave( l )
```

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