

## Description

`rowshape(T, r)` returns *T* transformed into a matrix with `trunc(r)` rows.

`colshape(T, c)` returns *T* having `trunc(c)` columns.

In both cases, elements are assigned sequentially with the column index varying more rapidly. See [\[M-5\] `vec\(\)`](#) for a function that varies the row index more rapidly.

## Syntax

*transmorphic matrix*   `rowshape(transmorphic matrix T, real scalar r)`

*transmorphic matrix*   `colshape(transmorphic matrix T, real scalar c)`

## Remarks and examples

Remarks are presented under the following headings:

[Example of `rowshape\(\)`](#)

[Example of `colshape\(\)`](#)

### Example of `rowshape()`

```
: A
      1      2      3      4
1  11  12  13  14
2  21  22  23  24
3  31  32  33  34
4  41  42  43  44

: rowshape(A,2)
      1      2      3      4      5      6      7      8
1  11  12  13  14  21  22  23  24
2  31  32  33  34  41  42  43  44
```

## Example of colshape()

```
: colshape(A, 2)
```

	1	2
1	11	12
2	13	14
3	21	22
4	23	24
5	31	32
6	33	34
7	41	42
8	43	44

## Conformability

rowshape( $T$ ,  $r$ ):

$T$ :  $r_0 \times c_0$

$r$ :  $1 \times 1$

result:  $r \times r_0 c_0 / r$

colshape( $T$ ,  $c$ ):

$T$ :  $r_0 \times c_0$

$c$ :  $1 \times 1$

result:  $r_0 c_0 / c \times c$

## Diagnostics

Let  $r_0$  and  $c_0$  be the number of rows and columns of  $T$ .

rowshape() aborts with error if  $r_0 \times c_0$  is not evenly divisible by `trunc( $r$ )`.

colshape() aborts with error if  $r_0 \times c_0$  is not evenly divisible by `trunc( $c$ )`.

## Also see

[M-4] **Manipulation** — Matrix manipulation

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