

## Description

`transposeonly(A)` returns *A* with its rows and columns interchanged. When *A* is real, the actions of `transposeonly(A)` are indistinguishable from coding *A'*; see [M-2] **op\_transpose**. The returned result is the same, and the execution time is the same, too. When *A* is complex, however, `transposeonly(A)` is equivalent to coding `conj(A')`, but `transposeonly()` obtains the result more quickly.

`_transposeonly(A)` interchanges the rows and columns of *A* in place—without use of additional memory—and returns the transposed (but not conjugated) result in *A*.

## Syntax

*numeric matrix*    `transposeonly(numeric matrix A)`

*void*                `_transposeonly(numeric matrix A)`

## Remarks and examples

`transposeonly()` is useful when you are coding in the programming, rather than the mathematical, sense. Say that you have two row vectors, *a* and *b*, and you want to place the two vectors together in a matrix *R*, and you want to turn them into column vectors. If *a* and *b* were certain to be real, you could just code

```
R = (a', b')
```

The above line, however, would result in not just the organization but also the values recorded in *R* changing if *a* or *b* were complex. The solution is to code

```
R = (transposeonly(a), transposeonly(b))
```

The above line will work for real or complex *a* and *b*. If you were concerned about memory consumption, you could instead code

```
R = (a \ b)
    _transposeonly(R)
```

## Conformability

`transposeonly(A)`:

*A*:  $r \times c$   
*result*:  $c \times r$

`_transposeonly(A)`:

*input*:  
*A*:  $r \times c$   
*output*:  
*A*:  $c \times r$

## Diagnostics

`_transposeonly(A)` aborts with error if *A* is a view.

## Also see

[M-2] `op_transpose` — Conjugate transpose operator

[M-5] `_transpose()` — Transposition in place

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

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