Title

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missing( ) — Count missing and nonmissing values

Description

These functions return the indicated count of missing or nonmissing values.

`colmissing(`*X*`)` returns the count of missing values of each column of *X*, `rowmissing(`*X*`)` returns the count of missing values of each row, and `missing(`*X*`)` returns the overall count.

`colnonmissing(`*X*`)` returns the count of nonmissing values of each column of *X*, `rownonmissing(`*X*`)` returns the count of nonmissing values of each row, and `nonmissing(`*X*`)` returns the overall count.

`hasmissing(`*X*`)` returns 1 if *X* has a missing value or 0 if *X* does not have a missing value.

Syntax

real rowvector	`colmissing(`*numeric matrix X*`)`
real colvector	`rowmissing(`*numeric matrix X*`)`
real scalar	`missing(`*numeric matrix X*`)`
real rowvector	`colnonmissing(`*numeric matrix X*`)`
real colvector	`rownonmissing(`*numeric matrix X*`)`
real scalar	`nonmissing(`*numeric matrix X*`)`
real scalar	`hasmissing(`*numeric matrix X*`)`

Remarks and examples

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```
colnonmissing(X) = rows(X) :- colmissing(X)
rownonmissing(X) = cols(X) :- rowmissing(X)
   nonmissing(X) = rows(X)*cols(X) - missing(X)
```

Conformability

`colmissing(`*X*`)`, `colnonmissing(`*X*`)`:

X:	$r \times c$
result:	$1 \times c$

`rowmissing(`*X*`)`, `rownonmissing(`*X*`)`:

X:	$r \times c$
result:	$r \times 1$

`missing(`*X*`)`, `nonmissing(`*X*`)`, `hasmissing(`*X*`)`:

X:	$r \times c$
result:	1×1

Diagnostics

None.

Also see

[M-5] **editmissing( )** — Edit matrix for missing values

[M-4] **Utility** — Matrix utility functions