

missing() — Count missing and nonmissing values

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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

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