

# designmatrix() — Design matrices

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## Description

`designmatrix(v)` returns a  $\text{rows}(v) \times \text{colmax}(v)$  matrix with ones in the indicated columns and zero everywhere else.

## Syntax

*real matrix* `designmatrix(real colvector v)`

## Remarks and examples

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`designmatrix((1\2\3))` is equal to  $I(3)$ , the  $3 \times 3$  identity matrix.

## Conformability

`designmatrix(v)`:

*v*:  $r \times 1$   
*result*:  $r \times \text{colmax}(v)$  ( $0 \times 0$  if  $r = 0$ )

## Diagnostics

`designmatrix(v)` aborts with error if any element of  $v$  is  $< 1$ .

## Also see

[M-4] [Standard](#) — Functions to create standard matrices

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