

standard — Functions to create standard matrices

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[M-5] Manual entry	Function	Purpose
Unit & constant matrices		
I()	I()	identity matrix
e()	e()	unit vectors
J()	J()	matrix of constants
designmatrix()	designmatrix()	design matrices
Block-diagonal matrices		
blockdiag()	blockdiag()	block-diagonal matrix
Ranges		
range()	range() rangen()	vector over specified range vector of n over specified range
unitcircle()	unitcircle()	unit circle on complex plane
Random		
runiform()	runiform() rseed()	uniformly distributed random numbers obtain or set random variate generator seed
Named matrices		
Hilbert()	Hilbert() invHilbert()	Hilbert matrices inverse Hilbert matrices
Toeplitz()	Toeplitz()	Toeplitz matrices
Vandermonde()	Vandermonde()	Vandermonde matrices

vec() & vech() transform

Dmatrix()	Dmatrix()	duplication matrices
Kmatrix()	Kmatrix()	commutation matrices
Lmatrix()	Lmatrix()	elimination matrices

Description

The functions above create standard matrices such as the identity matrix, etc.

Remarks and examples

[stata.com](https://www.stata.com)

For other mathematical functions, see

[M-4] matrix	Matrix mathematical functions
[M-4] scalar	Scalar mathematical functions
[M-4] mathematical	Important mathematical functions

Also see

[M-4] **intro** — Index and guide to functions