Title

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standard — Functions to create standard matrices

Contents Description Remarks and examples Also see

Contents

[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()`	vector over specified range
	`rangen()`	vector of n over specified range
unitcircle( )	`unitcircle()`	unit circle on complex plane

Random

runiform( )	`runiform()`	uniform random variates
	`rnormal()`	normal (Gaussian) random variates
	`rbeta()`	beta random variates
	`rbinomial()`	binomial random variates
	`rchi2()`	chi-squared random variates
	`rdiscrete()`	discrete random variates
	`rexponential()`	exponential random variates
	`rgamma()`	gamma random variates
	`rhypergeometric()`	hypergeometric random variates
	`rlogistic()`	logistic random variates
	`rnbinomial()`	negative binomial random variates
	`rpoisson()`	Poisson random variates
	`rt()`	Student's t random variates
	`runiformint()`	uniform random integer variates
	`rweibull()`	Weibull random variates
	`rweibullph()`	Weibull (proportional hazards) random variates

Named matrices

Hilbert( )	`Hilbert()`	Hilbert matrices
	`invHilbert()`	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

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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** — Categorical guide to Mata functions