Language	MATLAB/Octave	Python	R	
0 filled array	`zeros(3,5)`	`zeros((3,5),Float)`	`matrix(0,3,5)` or `array(0,c(3,5))`	$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{bmatrix}$
0 filled array of integers		`zeros((3,5))`		
1 filled array	`ones(3,5)`	`ones((3,5),Float)`	`matrix(1,3,5)` or `array(1,c(3,5))`	$\begin{bmatrix} 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 & 1 \end{bmatrix}$
Any number filled array	`ones(3,5)*9`		`matrix(9,3,5)` or `array(9,c(3,5))`	$\begin{bmatrix} 9 & 9 & 9 & 9 & 9 \\ 9 & 9 & 9 & 9 & 9 \\ 9 & 9 & 9 & 9 & 9 \end{bmatrix}$
Identity matrix	`eye(3)`	`identity(3)`	`diag(1,3)`	$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$
Diagonal	`diag([4 5 6])`	`diag((4,5,6))`	`diag(c(4,5,6))`	$\begin{bmatrix} 4 & 0 & 0 \\ 0 & 5 & 0 \\ 0 & 0 & 6 \end{bmatrix}$
Magic squares; Lo Shu	`magic(3)`			$\begin{bmatrix} 8 & 1 & 6 \\ 3 & 5 & 7 \\ 4 & 9 & 2 \end{bmatrix}$
Empty array		`a = empty((3,3))`		