

MATLAB® Basic Functions Reference

MATLAB Environment

<code>clc</code>	Clear command window
<code>help</code> <code>Fun</code>	Display in-line help for <code>Fun</code>
<code>doc</code> <code>Fun</code>	Open documentation for <code>Fun</code>
<code>load</code> ('filename','vars')	Load variables from .mat file
<code>uiimport</code> ('filename')	Open interactive import tool
<code>save</code> ('filename','vars')	Save variables to file
<code>clear</code> <code>item</code>	Remove items from workspace
<code>exampleScript</code>	Run the script file named <code>exampleScript</code>
<code>format</code> <code>style</code>	Set output display format
<code>ver</code>	Get list of installed toolboxes
<code>tic</code> , <code>toc</code>	Start and stop timer
<code>Ctrl+C</code>	About the current calculation

Operators and Special Characters

<code>*</code> , <code>.</code> , <code>*</code> , <code>/</code>	Matrix math operations
<code>.*</code> , <code>./</code>	Array multiplication and division (element-wise operations)
<code>^</code> , <code>.^</code>	Matrix and array power
<code>\</code>	Left division or linear optimization
<code>'</code> , <code>.'</code>	Normal and complex conjugate transpose
<code><<</code> , <code>>></code> , <code><</code> , <code>></code> , <code><=</code> , <code>>=</code>	Relational operators
<code>&&</code> , <code> </code> , <code>~</code> , <code>&or</code>	Logical operations (AND, NOT, OR, XOR)
<code>;</code>	Suppress output display
<code>...</code>	Connect lines (with break)
<code>% Description</code>	Comment
<code>'Hello'</code>	Definition of a character vector
<code>"This is a string"</code>	Definition of a string
<code>str1 + str2</code>	Append strings

Special Variables and Constants

<code>ans</code>	Most recent answer
<code>pi</code>	$\pi=3.141592654\dots$
<code>i</code> , <code>j</code> , <code>1i</code> , <code>1j</code>	Imaginary unit
<code>NaN</code> , <code>nan</code>	Not a number (i.e., division by zero)
<code>Inf</code> , <code>inf</code>	Infinity
<code>eps</code>	Floating-point relative accuracy

Defining and Changing Array Variables

<code>a = 5</code>	Define variable <code>a</code> with value 5
<code>A = [1 2 3; 4 5 6]</code> <code>A = [1 2 3 4 5 6]</code>	Define <code>A</code> as a 2x3 matrix "space" separates columns ";" or new line separates rows
<code>[A,B]</code>	Concatenate arrays horizontally
<code>[A;B]</code>	Concatenate arrays vertically
<code>x(4) = 7</code>	Change 4th element of <code>x</code> to 7
<code>A(1,3) = 5</code>	Change <code>A(1,3)</code> to 5
<code>x(5:10)</code>	Get 5th to 10th elements of <code>x</code>
<code>x(1:2:end)</code>	Get every 2nd element of <code>x</code> (1st to last)
<code>x(x>5)</code>	List elements greater than 5
<code>x(x==10)+1</code>	Change elements using condition
<code>A(4,:) </code>	Get 4th row of <code>A</code>
<code>A(:,3)</code>	Get 3rd column of <code>A</code>
<code>A(8, 2:5)</code>	Get 2nd to 5th element in 8th row of <code>A</code>
<code>A(:,[3 7])=A(:,[7 3])</code>	Swap the 3rd and 7th column
<code>a:b</code>	<code>[a, a+1, a+2, ..., a+n]</code> with <code>a=n:b</code>
<code>a:da:b</code>	Create regularly spaced vector with spacing <code>da</code>
<code>linspace(a,b,n)</code>	Create vector of <code>n</code> equally spaced values
<code>logspace(a,b,n)</code>	Create vector of <code>n</code> logarithmically spaced values
<code>zeros(m,n)</code>	Create <code>m</code> x <code>n</code> matrix of zeros
<code>ones(m,n)</code>	Create <code>m</code> x <code>n</code> matrix of ones
<code>eye(n)</code>	Create <code>n</code> x <code>n</code> identity matrix
<code>anddiag(x)</code>	Create diagonal matrix from vector
<code>anddiag(A)</code>	Get diagonal elements of matrix
<code>meshgrid(x,y)</code>	Create 2D and 3D grids
<code>rand(m,n)</code> , <code>randi</code>	Create uniformly distributed random numbers or integers
<code>randn(m,n)</code>	Create normally distributed random numbers

Complex Numbers

<code>i</code> , <code>j</code> , <code>1i</code> , <code>1j</code>	Imaginary unit
<code>real(x)</code>	Real part of complex number
<code>imag(x)</code>	Imaginary part of complex number
<code>angle(x)</code>	Phase angle in radians
<code>conj(x)</code>	Element-wise complex conjugate
<code>isreal(x)</code>	Determine whether array is real

Matlab Reference Manual

J Spring



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