

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> <code>['filename', 'vars']</code> | Load variables from <code>.mat</code> file |
| <code>uiimport</code> <code>['filename']</code> | Open interactive import tool |
| <code>save</code> <code>['filename', 'vars']</code> | 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>conj</code> , <code>'</code> | Normal and complex conjugate transpose |
| <code><</code> , <code>></code> , <code><=</code> , <code>>=</code> , <code><</code> , <code>></code> , <code><=</code> , <code>>=</code> | Relational operators |
| <code>&&</code> , <code> </code> , <code>~</code> , <code>&</code> , <code>&&</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 columns |
| <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

Charles R. MacCluer



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