MathWorks

MATLAB® Basic Functions Reference

MATLAB Environment

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

Operators and Special Characters

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

Defining and Changing Array Variables

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

Special Variables and Constants

ans	Most recent answer
pi	π=3.141592654…
i, j, 1i, 1j	Imaginary unit
NaN, nan	Not a number (i.e., division by zero)
Inf, inf	Infinity
eps	Floating-point relative accuracy

Complex Numbers

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

Matlab Reference Manual

Michael Hoelscher

Matlab Reference Manual:

This book delves into Matlab Reference Manual. Matlab Reference Manual is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Matlab Reference Manual, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 2: Essential Elements of Matlab Reference Manual
   - Chapter 3: Matlab Reference Manual in Everyday Life
   - Chapter 4: Matlab Reference Manual in Specific Contexts
   - Chapter 5: Conclusion

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