

# MATLAB® Basic Functions Reference

MATLAB Environment	
e1-e	Clear correspond window
help fun	Display in-line help for them
doc fun	Open discurrentation for Euro
Load("filename","vare")	Issuif variables from .mat file
wiinport("filename")	Open interactive import tool
save("filename", "vare")	Sowe variables to file
clear item	Kemove Hems from warkspoor
examplescript	Eun the script file named exceptescript
format style	Set output display format
Yes	Clet fist of installed toolboxes
tic, tee	Staget and stop firmer
Ctrl+C	Abort the current colculation.

	Matrix math operations
•/	Array multiplication and division (element-wise operations)
55.	Matrix and array power
	Left division or linear aptimization
S. 1	Normal and complex conjugate transpose
-,, 4, 3, c-, 3-	Relational operators
16. II. ~. NOT	Logical operations (AND, NOT, OR, XOR)
	Suppress output display
	Connect lines (with break)
Description	Commant.
Melio"	Definition of a character vector
This is a string"	Delinition of a string
stel + ste2	Append strings

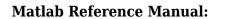
Special Variables and Constants		
en.	Most recent snawer	
p4.	m=3.141592654	
1. 1. 11. 13	Imaginary unit	
NeX, nan	Not a number (i.e., division by zero)	
Inf, inf	ledinity	
mgt-m	Florating-ground relative accuracy	

	Define variable a with value 5
A = [1 2 3: 4 5 4]	Define A as a 2x3 matrix
A - [1 2 3 4 5 63	"apone" separates columns "" or new line separates rows
5A.R1	Concatenate arrays horizontally
(A.9)	Concatenate arrays vertically
m(4) = 7	
A(1.3) = 5	Change 4th element of x to 7
	Change A(1,3) to 5
×(3:14)	Get 5th to 10th elements of x
= (1:2:=nd)	Get every 2nd element of a (1st to lost)
m (x(>+5)	List elements greater than 6
=(x==10)=1	Change elements using condition
A(4,1)	Get 4th row of A
A(:,2)	Get 3rd column of A
A(6, 2:5)	Get 2nd to 5th element in 6th row of A
Ac.,(2 71)~Ac.,(7 20)	Swap the 1st and 7th column
a.ib	[a, a+1, a+2,, a+n] with a+nib
a:dx:b	Create regularly spaced vector with spacing do
Linepece (e.b.n)	Create vector of n equally spaced values
Logspace(a,b,n)	Create vector of a logarithmically spaced volume
seros(s.n)	Create to a n matrix of zeros
ones (n, n)	Create m s.n. matrix of ones
mym (m)	Create a n x n identity matrix
Amditag(s)	Create diagonal matrix from vector
ar-ditag(A)	Get diagonal elements of matrix
meinlegetid (m.y)	Creams 2D and 3D grids
rand(n,n), randi	Create unformly distributed random sumbers or integers
randn(m,n)	Create sorreally distributed random surribura

Complex Numbers		
A. 3. 11. 13	Imaginary unit	
Fee 3 (K)	Real part of complex number	
imag(s)	Imaginary part of complex number	
amgin(x)	Phose origle in rushana	
comp(x)	Bement-wise complex conjugate	
insenics)	Determine whether array is real	

# **Matlab Reference Manual**

**Lei Huang** 



### Matlab Reference Manual Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Matlab Reference Manual**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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