

MATLAB® for Python® Users

The MATLAB language is designed primarily for math-intensive scientific computing. MATLAB combines a desktop environment tuned for iterative analysis with a programming language that expresses matrix and array mathematics directly. Understanding the philosophy and API design can help while learning MATLAB.

» General Behavior			
Python Syntax	MATLAB Syntax	Purpose	MATLAB Examples
#	%	Comment	%hello
print	Do not terminate with;	Print output	x
/	...	Continue to next line	x = 1+...2;
os	!	Operating system command	! echo hi
+ - * /	+ - * /	Mathematical operators	x = 1+2
**	^	Exponent	x = y^2
.* / **	.* ./ .^	Elementwise operators	x = [1 2].* [3 4]
not, and, or	~ &	NOT, AND, OR logical operators	if x<2 & x>2
del	clear	Clear variable from memory	clear x y
clear	clc	Clear command window	clc

» Referencing		
MATLAB Syntax	Purpose	Example
()	Index (copy-on-write)	x(1,1)
[]	Create array	x = [1 2 3]
	Join arrays	z = [x ; y]
{}	Create cell arrays	x = {'hi'; 'hello world'}
	Extract contents from a container	x{1,1}
.	Access class property or method	obj.Data
	Reference table or struct field	t.FieldName

- Beginning element has an index of 1.
- Indexing is left and right inclusive.
- Indexing options include N-D indexing (row,col), linear indexing (element number), and logical indexing (conditional statement).

» Functions		
Creating functions	You can declare functions within a function file. Input arguments are captured in parentheses. Multiple outputs are captured with square brackets.	function z = foo(x,y) ... end function [a,b] = foo(x,y) ... end
Calling functions with input arguments and name-value pairs		y = foo(x,y,'Name',Value)

Matlab And Guide

S Ben Porath



Matlab And Guide:

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