

Scilab Cheat Sheet

by BiONiCOP via cheatography.com/168344/cs/35203/

Scialb cheat sheet		Scilab cheat sheet	
input	user input.	deff	It is an <i>embedded scilab function</i> for defining custom functions .
	example: x=inpu t("How many iterat ion s?")		The deff() function receives 2 arguments(both strings). Each string contains parts of the function definition which are going to be evaluate by Scilab and turn into instru-
disp	displays variables		
matrix	example: [1 3 4 6; 5 6 7 8] ',' means row & ';' means column		ctions.
repmat	replicate's matrix.		example:deff(' y=f (x) ',' y=s q^2 t(x^* .** + 6)')
plot	used to create plots in the plane.		
sqrt	square root.		for: $f(x) = \sqrt{x^2 - 5x + 6}$
modulo	syntax: x (mod y)	complex	complex number:
ones	matrix made of ones.		syntax: $x+\%i$ This will dislay complex number $x+i$ where, $i=\sqrt{-1}$
	syntax: ones (x, y) Matrix of size x × y	mopen	opens a file in scilab.
zeros	matrix made of zeros.		
	many made of 26,000.		<pre>syntax: mopen(SCI +'/ fil e.txt', 'rt')</pre>
	syntax: zeros (x, y) Matrix of size x × y	mputl	writes strings in a text file.
rand	Returns a <i>real number randomly</i> taken between 0 and 1 .		<pre>syntax: r = mputl(txt, file_desc)</pre>
function	syntax:	mgetl	reads lines from an text file.
	function [output arguments] = functi onn -		
	ame (input arguments)		<pre>syntax: txt = mgetl(fil e_desc [,m])</pre>
	instructions	mclose	closes an opened file.
	endfun ction		<pre>syntax: mclose (fi le_ name)</pre>
plot(x,y)	graph of 'x' vs 'y'.	linspace	It generates a row vector of 'n' equally spaced values
plot2d	plots a set of 2D curves.		ranging exactly from "x1" to "x2".
plot2d2	It is the same as plot2d but the functions given by (x,y) are supposed to be "piecewise constant".		in short, vector of size n whose components are equidistant.
plot2d3	It is the same as plot2d but curves are plotted using "vertical bars".	clf	It can be used to delete all children of a given graphic window, hence 'clearing it'.
plot2d4	It is the same as plot2d but curves are plotted using "-arrows style".	isoview	This property is used to have isometric scales on the x, y and z axes (for exemple to make the display of the curve $\sin(x)$ versus $\cos(x)$ be a circle not an ellipse).
fplot2d	2D function plot		
fplot3d	3D function plot.	gsort	gsort performs a "quick sort" for various native data types. By default- Sorting is performed in decreasing order 'd'. syntax: gsort(inc rea , 'g ', 'where, i represents increasing order & 'd' for decreasing order (default).
subplot()	plots multiple graphs on a single graphic window.		
comet	2D comet animated plot.		
paramf- plot2d	animated plot of a 2D parametrized curve.		
strrev	returns string reversed.		



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Published 10th November, 2022. Last updated 10th November, 2022. Page 1 of 1. Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com