

Scilab Cheat Sheet

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

Scialb che	at sheet	Scilab che	eat sheet
input	<pre>user input. example: x=inpu t("How many iterat ion s?")</pre>	olumn	It is an <i>embedded scilab function</i> for defining custom functions . 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 instructions.
disp	displays variables		
matrix	example: [1 3 4 6;5 6 7 8] ',' means row & ';' means col		
repmat	replicate's matrix.		
plot	used to create plots in the plane.		example:deff(' y=f (x) ',' y=s $qrt(x.^2 - 5*x + 6)$ ')
sqrt	square root.		
modulo	syntax: x (mod y)		for: $f(x) = \sqrt{x^2 - 5x + 6}$
ones	matrix made of ones.	complex	complex number:
	syntax: ones(x,y)		syntax: x+%i This will dislay complex number x + i
	Matrix of size x × y		where, $i = \sqrt{-1}$
zeros	matrix made of zeros.	mopen	opens a file in scilab.
	syntax: zeros(x,y)		<pre>syntax: mopen(SCI +'/ fil e.txt', 'rt')</pre>
	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		. mgetl (input ar	reads lines from an text file.
	s)		<pre>syntax: txt = mgetl(fil e_desc [,m])</pre>
	instructions endfun ction	mclose	closes an opened file.
plot(x,y)	graph of 'x' vs 'y'.		<pre>syntax: mclose (fi le name)</pre>
plot2d	plots a set of 2D curves.	lineness	· =
plot2d2	It is the same as plot2d but the functions given by (x,y) are superior constant.	linspace pposed to b	posed to be "pie- ranging exactly from "x1" to "x2".
plot2d3	It is the same as plot2d but curves are plotted using "vertical b	ars".	in short, vector of size n whose components are equidistant.
plot2d4	It is the same as plot2d but curves are plotted using "arrows s	tyl gi ".	
fplot2d	2D function plot		window, hence 'clearing it'.
fplot3d	3D function plot.	isoview	and z axes (for exemple to make the display of the curve
subplot()	plots multiple graphs on a single graphic window.		
comet	2D comet animated plot.		sin(x) versus cos(x) be a circle not an ellipse).
paramf- plot2d	animated plot of a 2D parametrized curve.		gsort performs a "quick sort" for various native data types By default- Sorting is performed in decreasing order 'd'. syntax: gsort (inc rea , 'g ', 'i') where, i represents increasing order & 'd' for decreasing order
strrev	returns string reversed.		
			(default).



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Published 10th November, 2022. Last updated 10th March, 2024. Page 1 of 1. Sponsored by **Readable.com**Measure your website readability!
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