

## Re: 3-D graphing software?

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  - *Date:* Tue, 20 Nov 2007 15:06:08 +0100
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On Tue, Nov 20, 2007 at 02:20:26PM +0200, Dotan Cohen wrote:

Thank. I looked at R (and specifically RKWard for KDE) and I see that it is not appropriate. R can make graphs, but it does not perform any of the functions that I mentioned. More accurately, it may allow me to write a program with those functions, but I am looking for a graphics calculator, not a software language in which graphics calculators can be written.

R is a collection of (statistical) data analysis tools. Strictly speaking it cannot perform the functions you mention. Yet I have been able to do most of the things you want using tools contained in R and in R packages (you can load R packages from the command line in R). And I HATE programming in any form! But I would have to write a small manual for you :) I only mentioned R because you can easily make excellent graphs with it.

As has already been mentioned you can use computer algebra symbolic computation packages like maxima. yacas and octave.

Maxima (in combination with for example the gui wxmaxima) will do most of what you want and uses gnuplot. (It is Lisp oriented).

Yacas is also good AND can be used in combination with R and from within R if you load the R package 'Ryacas'. Then you can also use the excellent R graphics facilities. (see for example: <http://cran-mirror.cs.uu.nl/> for Ryacas)

Maxima, octave and yacas have Fedora packages.

Also worth looking into are the combinations:  
Euler+Yacas (Windows only)  
Euler+Maxima

Alexander

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