

mmwave

I like Matlab best and it has a student version for \$50 that does everything most people need. The syntax is similiar to C so if you know C it is easy to program. The documentation is not so good but I find Matlab easier to use than Mathcad. Most people learn it by modifying other peoples files.

Location: northern california

Posts: 187

Read my Journal

I have zero experience with maple but it is popular at some universities.

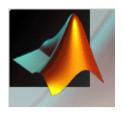
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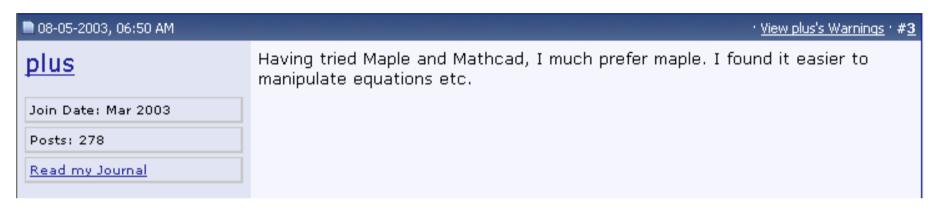










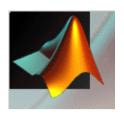


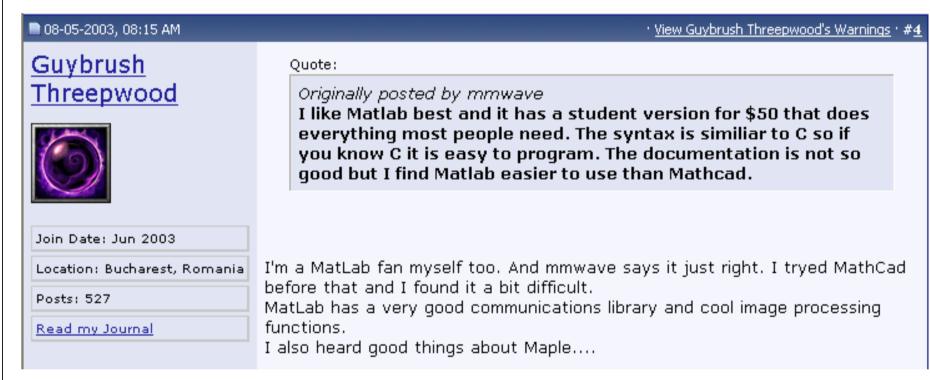










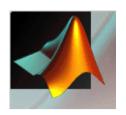


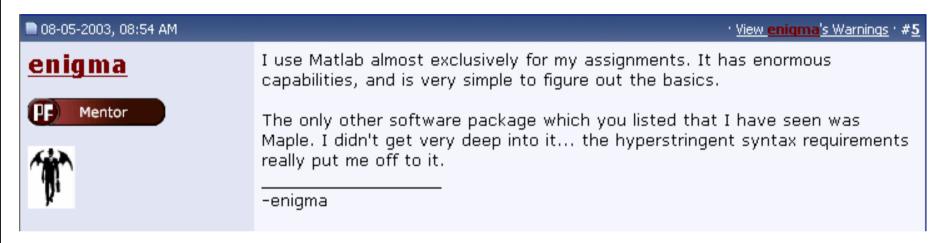










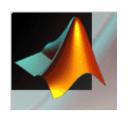






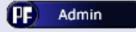






■ 08-05-2003, 01:30 PM • <u>View chroot's Warnings</u> • #6

chroot





Join Date: Mar 2003

Location: Bay Area, Calif.

Posts: 4,512

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Matlab actually uses Maple as its 'Symbolic Toolbox.'

I used to prefer Matlab for numerical computation, and Maple for symbolic computation. Mathematica has, IMO, very unusual and sometimes very cumbersome syntax, but does everything Matlab and Maple do all in one place.

Mathematica is also generally regarded as having the best graphical capability, and being the fastest numerical program available.

Overall, I prefer Mathematica, but end up spending a lot of time in help files trying to remember the right syntax for rarely used functions.

Another oddity is that all of the computer algebra programs are prone to occassionally producing bad equations that, well, look right! We often end up running the same caclulations on Matlab and Mathematica side-by-side to see if the two packages agree on the solution. The ODE solver was almost always the culprit. Mathematica version 5 (hot off the press) is supposed to have a totally redesigned and reimplemented ODE solver, so perhaps it will behave better.

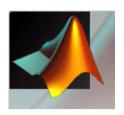
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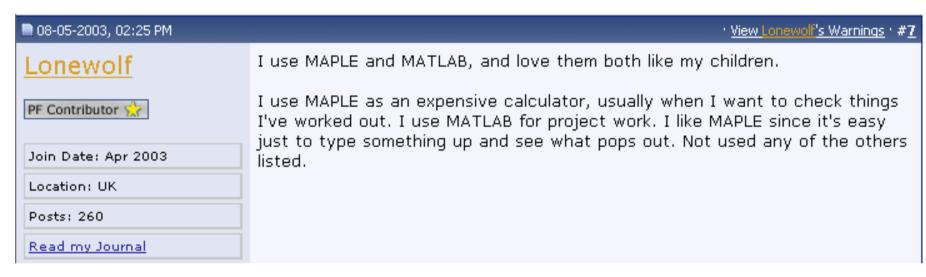










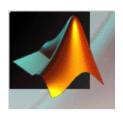


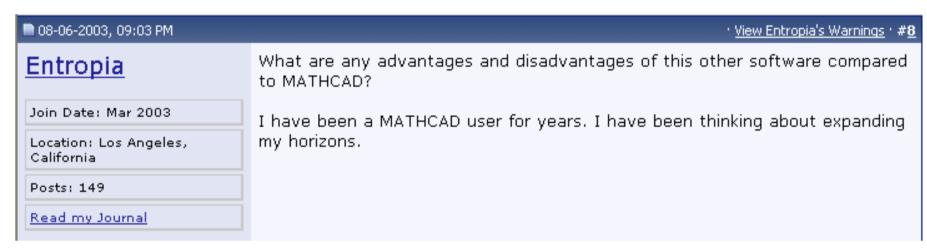










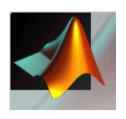


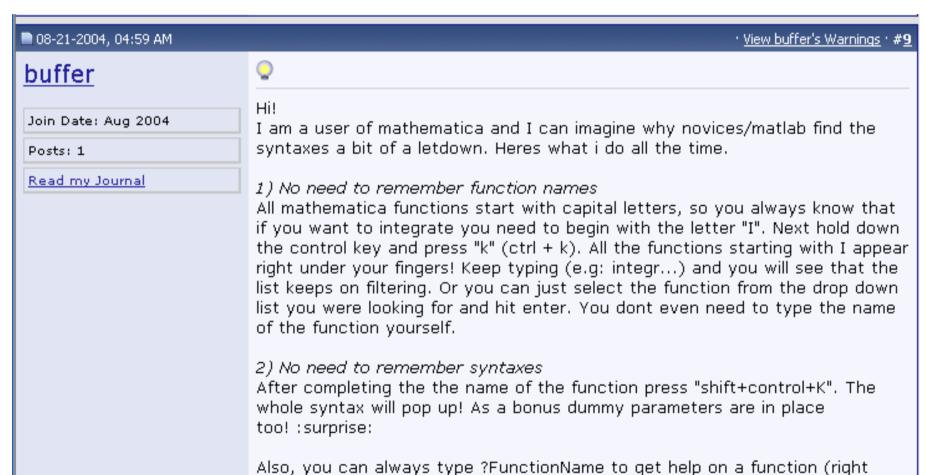










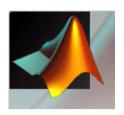












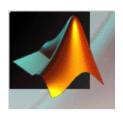
■ 08-29-2004, 01:32 PM	' <u>View cronxeh's Warnings</u> ' # <u>10</u>
<u>cronxeh</u>	umm you dont need any of that stupidity in Matlab.
Join Date: Apr 2004	in matlab you just press int and click tab twice, and it will give you all possible functions
Location: nyc Posts: 82	and if you dont know how to use it, type 'help int' and it will give you the syntax with examples.
Read my Journal	matlab's beauty is in simple, yet very powerful set of tools.
	ive tried maple and mathematica and i must say they both suck just for those reason - they are overly complex
	go with matlab - you wont regret it

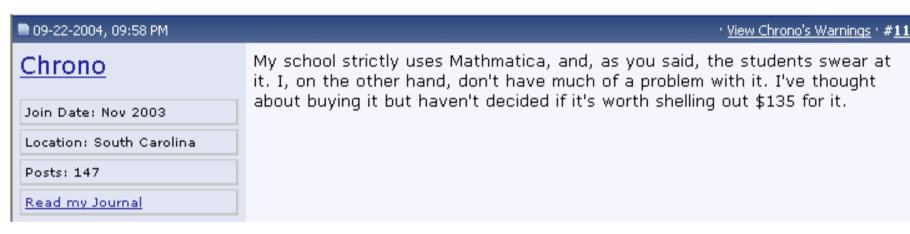










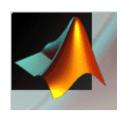












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It's also from my experience that Mathematica doesn't have standard syntax.

Often when loading an external package, such as Graphics`, you'll find that it's rather difficult to plot vectors compared to plotting vector fields because of the syntax issues.

Posts: 143

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Another Mathematica gripe is the way it treats matrices. Matrices are treated as lists, and in order to get a list to look like a matrix you must add an annoying "MatrixForm."

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