



Guide for
CS 1371

Introduction: The MATLAB Command Interface

MATLAB is basically just a really complicated program that functions as an extremely powerful calculator. As such, it can perform tasks that most calculators cannot, usually in fractions of a second. However, like all computer programs, MATLAB is incredibly stupid and is only ever as useful as your coding capability allows it to be. Never underestimate how irritatingly picky MATLAB can be about small sections of code. The programmers designed some functions to be flexible with input values, but for the most part they didn't bother making it user-friendly.

It is not necessary to actually purchase the MATLAB software to complete this course, although it is probably pretty useful. I do not personally own the software. Many, not all, computers in the library do have it. Additionally, some computer geeks have set up a virtual desktop called Citrix that allows you to access your library desktop from your laptop. Unfortunately, the remote desktop generally runs very slowly and is prone to freezing at frequent intervals. It also likes to give you nonsensical login error messages such as "We are sorry. This desktop has been locked, and only you can use it."

Whenever you run MATLAB in the library or from your remote desktop, it will tell you it's "initializing" and then proceed to take an unreasonable amount of time to generate a pointless message about customizing shortcuts. I have yet to find a method for preventing this. The MATLAB screen is divided into a number of sections with specific names and titles. These are important to learn because they make up a large part of the terminology used in the course.

The Command Window:

This is the large and obvious block in the middle of your screen labeled "Command Window." It can be used to run individual lines of code or display the progress of a script. Although you'd imagine it must play a very important role in writing codes, it is actually pretty much useless. If you use the command window to run multiple lines of code sequentially and

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