Fall Quarter Class 9: In-class Demo

Today we will explore a few last programming constructs in MatLab that may be useful for you this year.

We will also get an introduction to Git, an important tool used by programmers to work on projects!

Part 1: Try Catch

Try Catch is a paradigm in MatLab similar to If / Else statements. The main difference is that the try section is always executed, and the catch is only entered if an error occurs.

In an If / Else statement, you need to predict if an error will occur

In a Try / Catch statement, any error will trigger the catch

Most of the time, we tend to default to If / Else

a) What are some times when we should use a Try / Catch instead of an If / Else?

b) What are some times when we should use an If / Else instead of a Try / Catch?

Part 2: Switch Case

Another way to organize your code is using Switch Case. The main difference from If / Else is one of clarity, it can be easier to read so it’s easy to use.

Use Switch Case to code a small amount of proprietary information

a) What are some times when we should use a Switch / Case instead of an If / Else?

b) Is there a downside of using Switch / Case over If / Else?

Part 3: A Lookup Table

Sometimes there is too much proprietary information to code into a reasonable Switch / Case or If / Else. In that case we can read an excel file into MatLab as a lookup table.

Part 4: Git

Trust us that Git is an industry standard for code sharing and representation!! Create a GitHub account today and follow the lesson. After your time here, you can present your work on GitHub along with your resume to potential employers.