Matlab Quiz: Topics to Know

Please remember that this is a QUIZ -- it’s not worth much, and it’s not meant to be daunting. You got this! Don’t ruin your weekend studying :)

Matlab (Lectures 14-16)

- The better you can navigate MATLAB, the simpler the quiz will be -- Make sure to look over these lectures and play around with commands in MATLAB!
  - The quiz is closed internet, closed note... but if you just so happen to know how to access MATLAB help docs from MATLAB, we encourage you to do so ;)
- Know your syntax!
  - How do we write a conditional statement in Matlab?
  - How can we construct/transpose matrices, access their elements, get their size?
  - How do we create functions
  - How do we create anonymous functions
  - Logical operators, conditional operators
  - Logical arrays (and how to use them)
    - Like how we used find() in hw10

Linear Algebra (Lectures 17-18)

- Matrix Operations
  - What makes matrices equal?
  - How can we add, subtract, and multiply matrices?
  - Matrix multiplication vs. element-wise multiplication?
  - Properties of matrix multiplication? (is it distributive, commutative?)
- Least Squares
  - At a high level, what is this?
  - How do we compute it in matlab?

Image Processing (Lectures 19-20)

- Matlab structs
  - Just know how to access members, don’t worry about how to make a struct
- regexp/regexpi
  - Don’t memorize operators, but know how to combine them!
- Generally, know how to plot an image
  - figure, plot, colormap, and the like
  - Again, don’t memorize, you can use matlab to help you remember the inputs to these functions, but you should know what functions exist at your disposal