* Matlab command
  + who
    - Shows all the current variables in the workplace
      * Variables defined and available
* We can use workspace variables in command window, scripts, and simulink
* Clearing the workspace
  + >>clear all
  + >>clear “variable name”
  + Good practice to always start your script with clear all
* Script
  + Programing
    - Variables
      * Like python, don’t declare type
    - Logic (you can use >>help \_\_\_\_ if ya need help)
      * if
      * for
      * while
    - % to comment
  + Making a matrix
    - Row: [1 2 3]
    - Column: [1;2;3]
    - Empty 4x4 matrix
      * V = zeros(4,4)
  + Plotting figures
    - plot
    - Use >>help plot
    - >>close all
      * Closes all plots
* Simulink
  + >>simulink
  + Graphic programing
  + Sources
    - The signal source
    - Generates your input signal
    - u(t)
  + Clock
    - u(t) = t
    - Change step size
      * Click modeling tab
      * Model settings
  + Gain
    - number\*input
  + Sink
    - Where the signal goes
    - Scope is most common
    - Mux
      * Combined inputs into 2 vectors
      * Allows you to print multiple lines
  + Continuous
    - Transfer function
  + >>out.
    - Prints output in command window
* Transfer Function and State Space
  + >>tf2ss
  + >>ss2tf
  + >>tf([a b],[c d e])
    - help tf if you forget
  + >> ss([A B C D])
* Stability
  + >>roots([1 2 3 4])
    - Where 1 2 3 4 are coefficients of the denominator of our T(s)
    - If all roots are negative, system is stable