* Unified
  + Plant model
    - First order – from paper. Close to identified plant.
* Smooth System
  + Stability
    - Combined Nyquist, pz, step, bode animations to demonstrate evolution of stability through changes in gain, delay.
    - Stability field – checking stability at each point in gain/delay space.
    - Surface fit to minimum stable delay for stability field
  + Performance
    - Input Signals
      * Chirp
      * SoS (TODO: Normalize SoS magnitudes)
      * Step
      * TODO: Pure Sine (for frequency sweep / tracking error)
    - Sweep across gains/delay
      * Produces giant data file for processing (TODO: This needs re-run for normalized SoS input)
    - Sweep plots
      * One figure for each performance metric – subplot for each delay level
    - Plots for 0.04 (typ.) delay
      * On figure for each performance metric
    - Weighting and Composite Surface
      * Metric weighting and composite minimization surface
    - Optimum point response
      * Shows the response to the inputs for the optimum gain point determined from the weighting / composite surface
    - TODO: Tracking error
      * Pure sine FRF responses
      * Show evolution in phase plane for changing gains
    - TODO: Frequency sweep
      * Sum-Abs error as a function of frequency, gains
* Hybrid System
  + Stability
    - TODO: Effect of switching threshold on stabilization time / max excursion.
  + Performance
    - Input Signals
      * Chirp, SoS
      * TODO: Pull in inputs from file to ensure synchronization with smooth system
      * TODO: Pure sine (For frequency sweep)
    - Sweep across switching threshold (error as a function of switching threshold)
    - Gain/Switch threshold sweep
      * Sweeps through gain sets to find optimum switching threshold for each gain pair
      * Right now this is a bit rough / unconstrained. It only works for one input signal at a time, so it would be good to try with the other signals and have a surface comparison (if there is interesting information)
* Figure Generator (Current important figures)
  + Smooth System
    - [Not in Generator] Smooth System loop diagram (comparison with Land)
    - Nyquist plots (3) for evolution of stability in Kp, Ki, delay
    - Bode plots (?) need some clarification on sets / evolutions that may be interesting
    - Max stable delay surface
    - Performance Input Signals (3) – chirp, SoS, step
    - Performance surfaces (5) – Chirp Sum-Abs, SoS Sum-Abs, step (3)
    - Composite Surfaces (2) – [0.2 0.2 0.2 0.2 0.2] , [0.5 0.5 0 0 0]
    - Composite “Optimal” responses (2)
    - Tracking error complex plots