Algorithm

- Gather 50 images of ball in varying light conditions
- Write code to plot average pixel value (B channel) against average light level of slice of each image
  - slice each image to get only ball
- Create mathematical model for data
  - Multivariate gaussian? Something else?
  - Tentative goal: Keep range narrow for accuracy, shift window to find ball
  - Contingency: What if range is so wide it ends up detecting random things as ball?
  - Shifting size window or fixed size as hyperparameter?
- Create dataset based on model and analysed data
- Save dataset in external config file
- Load dataset from file when looking for ball.
  - Select HSV value (range?) from dataset
  - Stick when ball found.
  - Resample from dataset when ball lost
- Add buttons to web interface to load ball setting files (ball color)