Topics: JS: Functions, Variables, Conditionals, Booleans

Approach: Design Solutions to Slide Show

Main Ideas: variables, parameters and arguments, counters

1. Admin
   - HW8 due Thu, HW9 due Wednesday
   - Exam 2 next Thursday: half lab, half paper

2. Function facts
   a. Lots of functions can go in one <script> container
   b. Functions can contain many lines of code
   c. Remember to use .style. before style components
   d. Functions can call other functions

3. Improvements to 5-slide Project
   a. Two problems with 5 slide project
      i. boring, repetitive code
      ii. may need lots of buttons
   b. Solutions
      i. Use one function with parameters (call with arguments)
      ii. Replace with next, prev, chose buttons
   c. Volunteer for code makeover

4. Functions with Parameters
   a. Vocabulary review: parameter, argument, variable
   b. Replace 5 functions with one
   c. Modifying where the function is called

5. Variables and Conditionals in Javascript
   a. Adding next, prev to slideshow
      i. variables
      ii. string concatenation
         - What about rolling over at extremes?
      iii. if ..
   b. Adding user choice of numbers
      i. prompt
         - What about bad input
      ii. parseInt and isNaN

6. Counters
   a. Problem 1: Create a button that counts
   b. Problem 2: Create a combination lock
      - Three counters that roll over
      - Need correct combination to unlock image