Topics: Timers and Repetition

Approach: Focus on a Few Specific Problems

Main Ideas: Adding timers to Web Pages

1. Admin
   HW11 Due Next Tuesday
   Project: Too little time - will assign a slideshow project

2. Adding Timers to a JavaScript Page
   a. dance-solo.html
   b. How does it work?
   c. Adding a timer to push the button automatically
   d. Stopping a Timer
   e. Basic Rules about Timers
      `setInterval(action, when)` vs `setTimeout(action, when)`
      `clearInterval(id)` vs `clearTimeout(id)`

3. Adding Features to dance-solo.html
   a. Adding a second dancer
   b. Each dancer with its own timer

4. Example 2: Fading between images
   a. problem → procedure → program
   b. Using composite (a relative of convert)
   c. The code: fade.html

5. Not Just for Images - Timers and Text Boxes
   a. countup.html

6. Animating a Row of Images
   a. dance-row.html
   b. Change it to one dancer moving up and down the line

7. Summary of Repetition:
   a. user-controlled: push button again
   b. while loop: to repeat for a set of values right now
   c. timer: to repeat with delays between events
   d. recursion: function calls itself