Topics: Storage; JS1: Events, Functions, Elements & Attributes

Approach: Explain storage; Plan a Slideshow

Main Ideas:

1. Admin
   HW8 Due this Thursday (it’s short)

2. Storing Bits: Media, Reading, Writing (30 minutes)
   a. CD’s - pits and flats
   b. Hard Disks - N and S
   c. RAM - Charged or Not

3. The Next Problem: A Slideshow - Planning
   a. Quick review of HTML: slideshow0a.html
      Elements and Attributes (aka Properties)
   b. Description of the problem
      Say we have $n$ images and captions
      We want to allow the visitor to view all $n$
      One solution: the album -- show all images on one page
      Another solution: the slideshow -- one image at a time
   c. Plan Solutions - Outlines of Steps

4. Slideshow - Algorithm and Skills
   a. Algorithm - When user clicks a button, the picture changes
   b. Skills: Create a button, Change picture in img,
      Connect code to button

5. Slideshow - Expressing Operations in Javascript
   a. Remember Scratch - stage, sprites, scripts, events
      We could attach script to events
      Scripts could change costumes, size, color, position,....
   b. Meet <script>, </script>
   c. slideshow0b.html
      How to add a button
      How to identify an object (element)
      How to specify a property
      How to write code
      How to connect code to a button
   d. But link still goes to original image
      How can we change the href in the <a> tag?
      Answer: almost like changing the image
   e. How about changing the caption?
   f. How to specify elements
   g. Write three buttons to view three images

6. Other Events, Other Attributes
   a. What events can trigger actions?
   b. What attributes can we change?

7. Thinking ahead to a project