

Assignment 6: JavaScript Basics
INFO/CS 1300
Fall 2016

Overall Goals:

For this assignment, you will implement a bare-bones slideshow gallery for images. You will also be adding the date at load time. You will be given a template site, and asked to modify the site such that it adopts the functionality described below. The objective of this assignment is to familiarize yourself with various basic aspects of JavaScript interactivity in a practical context. The placement of the images in the page should look approximately like the page discussed in the JavaScript lecture on October 12th.

Tasks:

- Create a subdirectory named *js*. In it, add a .js file called *main.js*.
- Link to *main.js* in the <head> of your index.html page. *Do not use any inline JavaScript or styling.* You may call the date code (see below) from an inline script tag, though.
- Use four images that are thematically related, and place them in a subdirectory named *images*. Choose one of the images as the initial one to display when the page loads.
- Give the page a title and header that make sense for the themed images.
- The images should be uniform in height, but can vary in width. This must be done by altering the images, not by setting the dimensions in the HTML or CSS code.
- The images must fit within the container div at a screen resolution of 1280 x 720 pixels.
- Add separate *onclick* handler functions to the buttons, and fill in their functionality *inside main.js*:
 - Next image button
 - Display the next image.
 - If the last image is currently displayed, wrap around to the first image.
 - Previous image button
 - Display the previous image.
 - If the first image is currently displayed, wrap around to the last image.
 - *You may not hard code for the number of images.* You must use an array for the image names, and you must code for the length of the array. In other words, if you add or subtract images in the array, the slide show should still display the correct number of images with no errors.
- On page load:
 - Display the current date in the footer.

- Date must be in format *day month year* format.
 - Example: 11 October 2016
- Make the JavaScript code your own:
 - Provide original names to functions, variables, etc. if you adapt them from class code.
 - Add original comments.
 - Remove any code you do not need, including credits that apply to images that you are not using.
 - Put your own name in the JavaScript file.

Deliverables:

- Your completed template site with the above functionality, uploaded into a directory named *assignment06*.

Due Date: Tuesday, October 18th at 5 p.m.

General Assignment Policies:

- You are free to go beyond assignment requirements, but make sure that your extra work does not interfere with those requirements. For example, adding an extra script that creates invalid HTML5 code will result in a lower grade.
- Late work will be penalized 10% per day, including holidays and weekends.
- Assume all assigned file and directory names should be used with the correct case. E.g., if the assigned file name is “index.html”, “Index.html” is not acceptable.
- **All** media files must be credited in an HTML comment adjacent to the img or other media tag **every** time they are used. The credit must include a specific URL for the media file.
 - Failure to do this will result in the following penalties:
 - 25% deduction the first time.
 - 50% deduction the second time.
 - 100% deduction the third time, with possible referral for violation of Cornell’s Code of Academic Integrity.
 - Note: this includes media generated by an API, e.g., an icon generated by the Facebook API.
 - Note: individual assignments may require additional credit for media files.
 - If you create a media file yourself, credit yourself by name, not by a general statement like, “I made this.”
- If any of the assignment files, directory names, or variable names includes one or more spaces, there will be a 5% deduction.
- The presence of unneeded files in an assignment directory that make it difficult to grade your work may result in a 5% penalty.
- You are free to find and adapt code from sources that *allow you to use the code*, but you must provide credit for the code, including a specific URL or citation for the source.

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- You may not use large blocks of unmodified code and receive full credit for the assignment. If you have any doubt about your use of borrowed code, you should consult with a TA or me.