

# CS 329E: Bulko

## HW7: Random Images

### 1 Problem Definition

Create a HTML page with embedded JavaScript that displays a random image every time it is loaded. You have six images to work with:

- Galaxy Cluster
- M 104
- NGC 1300
- Interacting Galaxies
- M51
- NGC 6217

Follow these steps:

- Start by creating a simple HTML file that can display a given image. Make the size of the image 640 pixels by 480 pixels. Display the header *Galaxies* at the top of the page.
- Write JavaScript code that changes the displayed image to one of six images randomly. Use this to make the image that is displayed when the page is loaded random.
- Create an array in JavaScript that stores the names of the six image files.
- Create a random index and use that to select an image. *Hint:* one of the Dynamic HTML demos involved displaying a random image.
- Improve the appearance of your HTML file by creating a CSS file that allows you to add color and font information.
- Add a caption for the image. Create a border around the image and caption. The text for the captions should be stored in another array and extracted using the same random index. Use the names of the images (as given in the above list) as the caption for each image.

As always, use the HTML and CSS validators, and look at your page through multiple browsers. To turn in your homework, add a link to the top of your table on the server. Again, there is no need for you to post anything to Canvas, or to email anything to the instructor or any of the TAs. Insert the link before 11:59 pm on the due date. We will examine the timestamp on the files to confirm that you completed the assignment on time, so be sure you do not alter the files after the deadline!