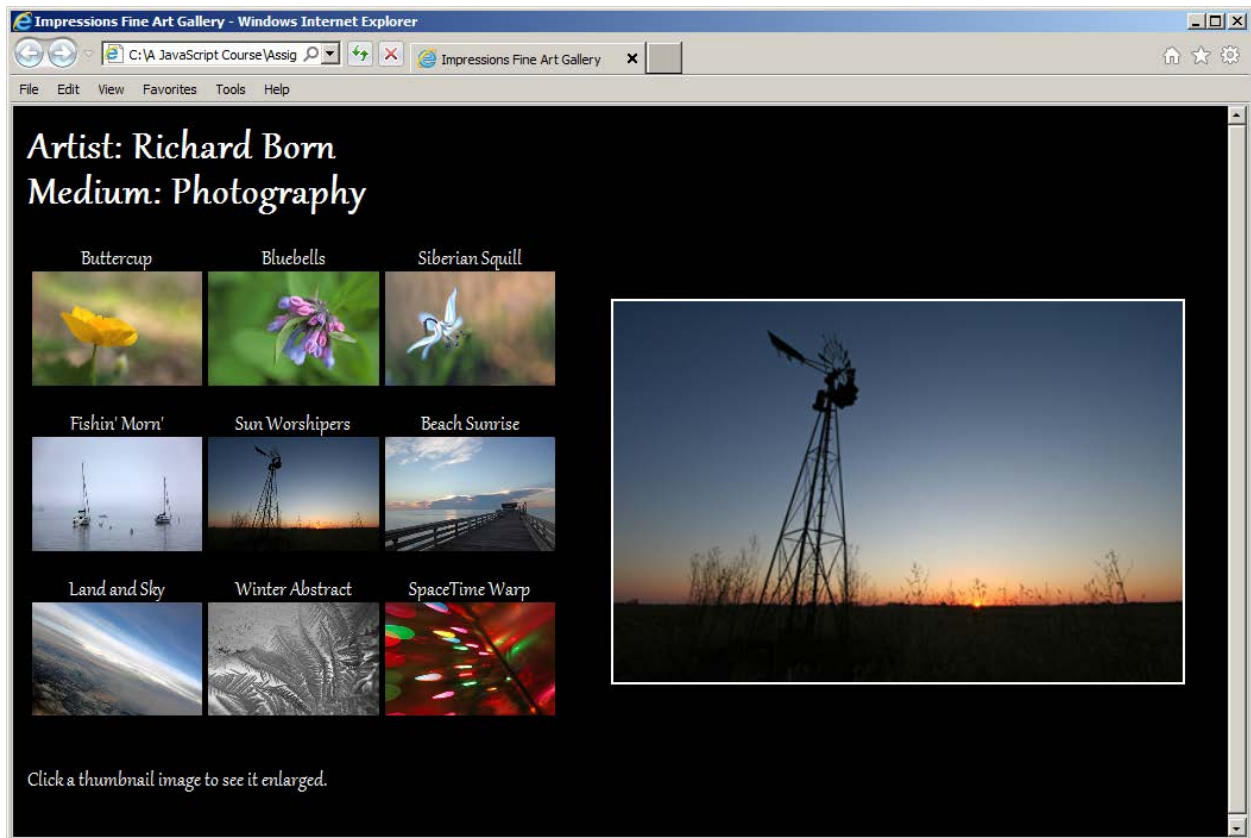


## Assignment #3

***Impressions Fine Art Gallery*** wants a web site in which each artist can display nine images of their artwork. You will be designing a prototype for a single artist that should appear as shown in the figure below.



Note that the background is black and that the artist name and medium appear in the upper left. Below this are the nine images (in the form of *thumbnails*—small versions of the images) with the title of the artwork shown above each image. The nine images are ordered in a 3 x 3 arrangement. An instruction below the thumbnails tells the viewer that he/she can see an enlarged image by clicking on its thumbnail. Upon clicking on an image, the enlarged version of that image appears to the right of the thumbnails with a narrow white border surrounding the image. When the web page first opens, the image in the center of the 9x9 set of thumbnails should be shown in the enlarged image area on the right. All text on the web page appears as white.

This web site should be created using straight HTML and JavaScript, with emphasis on style sheets, the W3C DOM, and advanced DOM features. Here are several suggestions to help you get started:

- The full-size jpg images are each 400 pixels wide by 267 pixels high and are found in the folder for this project.
- Create an HTML table with three rows, each row having three cells. Use this table to display the nine thumbnail images with the title of each image directly above its thumbnail, as shown in the figure above. Each of the thumbnail images should be shown 120 pixels wide by 80 pixels high. (Use the width and height properties in the <img> tags to set these image dimensions.)

- In your style sheet specify the background color, text color and font family for the BODY of your HTML document.
- The area for the large image should be a paragraph whose position can be controlled:

```
<p ID="largeimage"></p>
```

- You can control the position of this paragraph by including something similar to the following in your style sheet. Note that the top and left properties refer to the location in pixels of the upper-left corner of the HTML element, in this case a paragraph.

```
#largeimage {
    position: absolute;
    top:
    left:
    width: 400;
    height: 267;
    border: 2px solid white;
}
```

- Include an `onClick="Enlarge('filename.jpg');"` event in the `<img>` tag for each of the nine images in your image table, where file name is replaced by the filename of the image, e.g., `bluebells.jpg`.
- Then add a JavaScript to the header of your document that defines the function:

```
function Enlarge(imageName) {
    document.getElementById("largeimage").innerHTML =
```

- The reason that you use the `innerHTML` property above rather than the `nodeValue` attribute is that `nodeValue` limits text nodes to text, whereas `innerHTML` allows you to insert *any HTML*. Here, you want to insert an image tag into that paragraph that is to reference the large image through the `src=` option. So you will need to build up that image tag with concatenated strings in your code to the right of the equal sign in your function. Be careful with the use of single quotes and double-quotation marks as you build up your string. Also, note that if you don't include `height=` and `width=` options in your image tag, then the image will appear as the actual size in pixels of the jpg image. You want the actual image size for the large image, so there is no need to include those two options while building up the image tag.

### ***Deliverable for this assignment:***

- A single html file that contains the required HTML, style sheet, and JavaScript code. (Make the name of this file `gallery.html`.)