CS3500 Introduction to Web technologies

Assignment #1 Instructions: HTML 5 + CSS 3

Due September 27th, 2019 (Friday) by 11:59PM.

Overview

The objective of this assignment is to demonstrate mastery of HTML and CSS.

There are three projects in this assignment. Follow the instructions for each project to complete them. You have been provided with the necessary files to complete these projects.

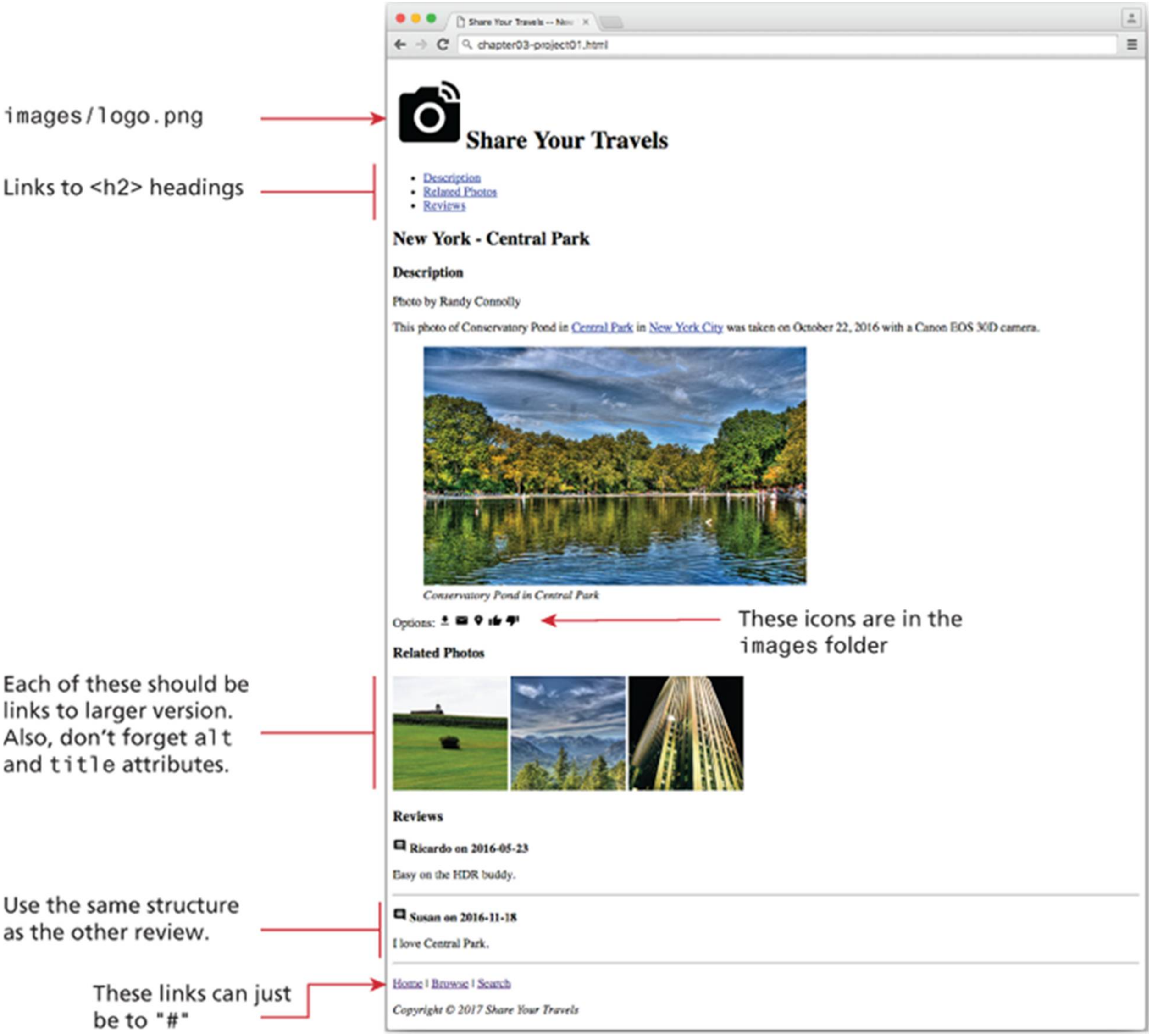
Submission

Save your assignment along with all the resources it requires to work properly (e.g. images) in a folder named using the format: A1_<*yourname*> (e.g., A1_JohnSmith). Compress the folder into a .zip file and upload that file to the **Assignment 1** submission *dropbox* on *elearning* on or before the due date**.**

Project 1 (HTML 5): *Share Your Travel Photos*

Overview

This project is the first step in the creation of a travel photo-sharing website using **HTML 5**. The page you are given is augmented by this project so that the completed project appears similar to that shown in Figure 1.



images/logo.png

Links to <h2> headings

These icons are in the images folder

Each of these should be links to larger version. Also, don't forget alt and title attributes.

Use the same structure as the other review.

These links can just be to "#"

Share Your Travels

- Description
- Related Photos
- Reviews

New York - Central Park

Description

Photo by Randy Connolly

This photo of Conservatory Pond in Central Park in New York City was taken on October 22, 2016 with a Canon EOS 30D camera.

Conservatory Pond in Central Park

Options:

Related Photos

Reviews

Ricardo on 2016-05-23

Easy on the HDR buddy.

Susan on 2016-11-18

I love Central Park.

Home | Browse | Search

Copyright © 2017 Share Your Travels

Figure 1 Completed Project 1

Instructions

1. Open chapter03-project01.html in the editor of your choice, so you can start making changes.
2. Open a browser and direct it to the same file (or double click the file in most operating systems). You should see a page similar to Figure 1.
3. Start by adding an image logo.png to the `<h1>` heading. The image is in the `images` folder.
4. In the unordered list, add links to the `<h3>` headings. This will require referencing (in the `href`) the `id` attribute of those headings.
5. Add a paragraph for Options under the figure. Add the correct icons in the `images` folder as shown in Figure 1.
6. Add a new section for the Related Photos. In this new section, add three images from the ones provided in the `images` folder. Use the small images related-square1.jpg, related-square2.jpg, and related-square3.jpg, but link to the large images with almost the same names.
7. Add an additional review (the first review is by Ricardo).

Testing

1. Test your page by seeing if it looks like the one in **Figure 1**.
2. Now check that the links at the top of the page work correctly and that clicking on the related images brings up the larger versions.
3. Validate the page by either using a built-in tool in your editor, or pasting the HTML into http://validator.w3.org or https://html5.validator.nu and ensure that it displays a message that indicates it contains no errors.

Project 2 (CSS): *Art Store*

Overview

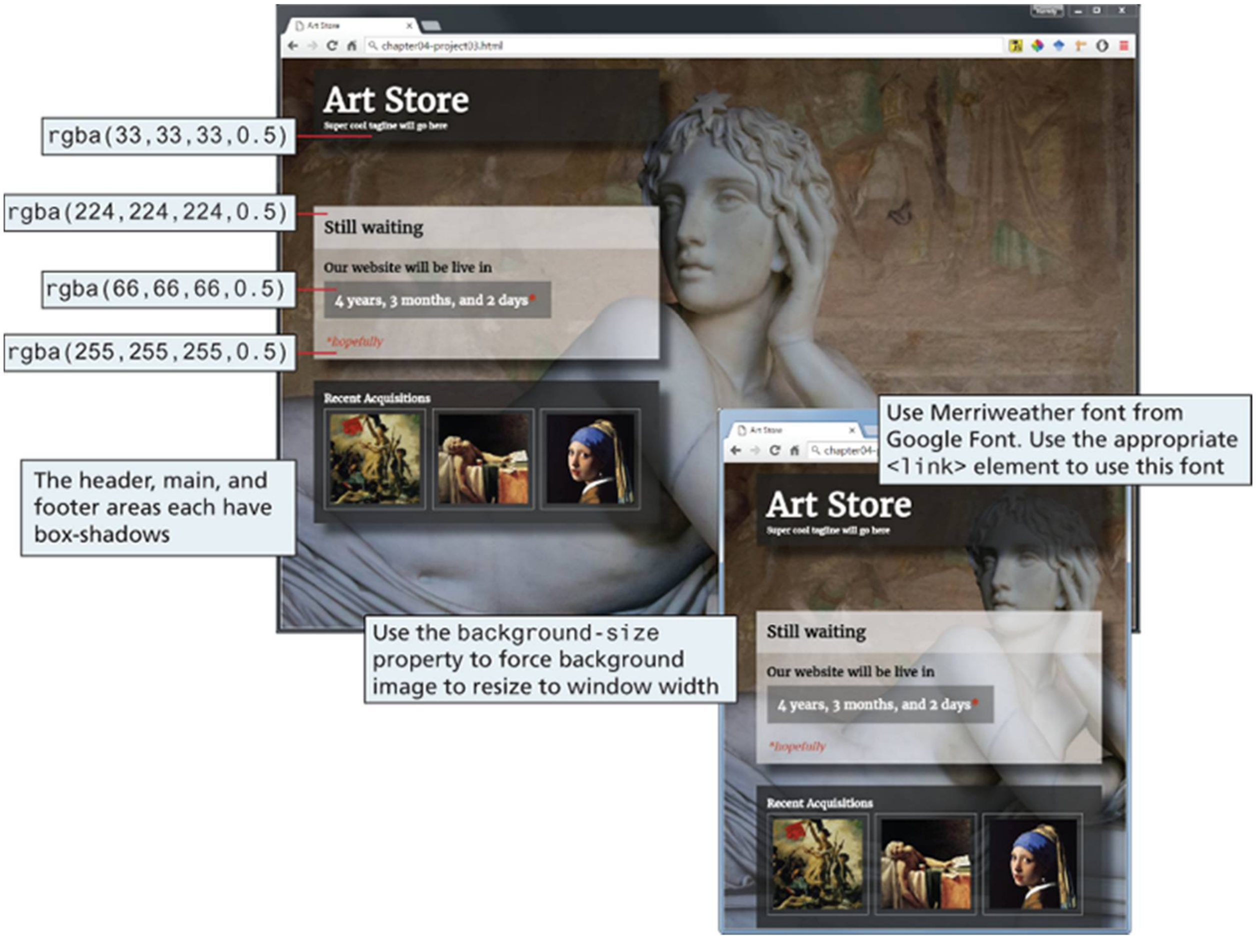
This CSS project builds on an art store example, but purposefully leaves you having to dig a little deeper into CSS.

Instructions

1. You have been provided with the markup for a file named chapter04-project03.html.
2. Create an external style sheet called reset.css that removes all the browser formatting from the main HTML elements and reference inside chapter04-project03.html as follows:

```
html, body, header, footer, main, nav, article, section, figure,
figcaption, h1, h2, h3, ul, li, body, div, p, img
{
   margin:  0;
   padding:  0;
   font-size:  100%;
   vertical-align:  baseline;
   border:  0;
}
```

3. Create another external style sheet named chapter04-project03.css and link to it in your HTML file. Define the relevant CSS styles so that your output looks similar to that shown in Figure 2. Do not modify the markup within the `<body>` element.
4. You will have to use a CSS3 feature that will require some research on your own. The `background-size` property can be used to force a background image to resize to the width of the browser window.


Art Store
Super cool tagline will go here
Still waiting
Our website will be live in
4 years, 3 months, and 2 days*
*hopefully
Recent Acquisitions
chapter04-project03.html

rgba(33,33,33,0.5)

rgba(224,224,224,0.5)

rgba(66,66,66,0.5)

rgba(255,255,255,0.5)

The header, main, and footer areas each have box-shadows

Use Merriweather font from Google Font. Use the appropriate <link> element to use this font

Use the background-size property to force background image to resize to window width

Figure 2 Completed Project 2

5. Notice that two of the blocks in Figure 2 are partially transparent. Remember that CSS3 allows you to specify the alpha transparency of any color.
6. Finally, the header uses the font Merriweather which will have to be supplemented with other options in the font stack in the event that font is not present on the client's computer.

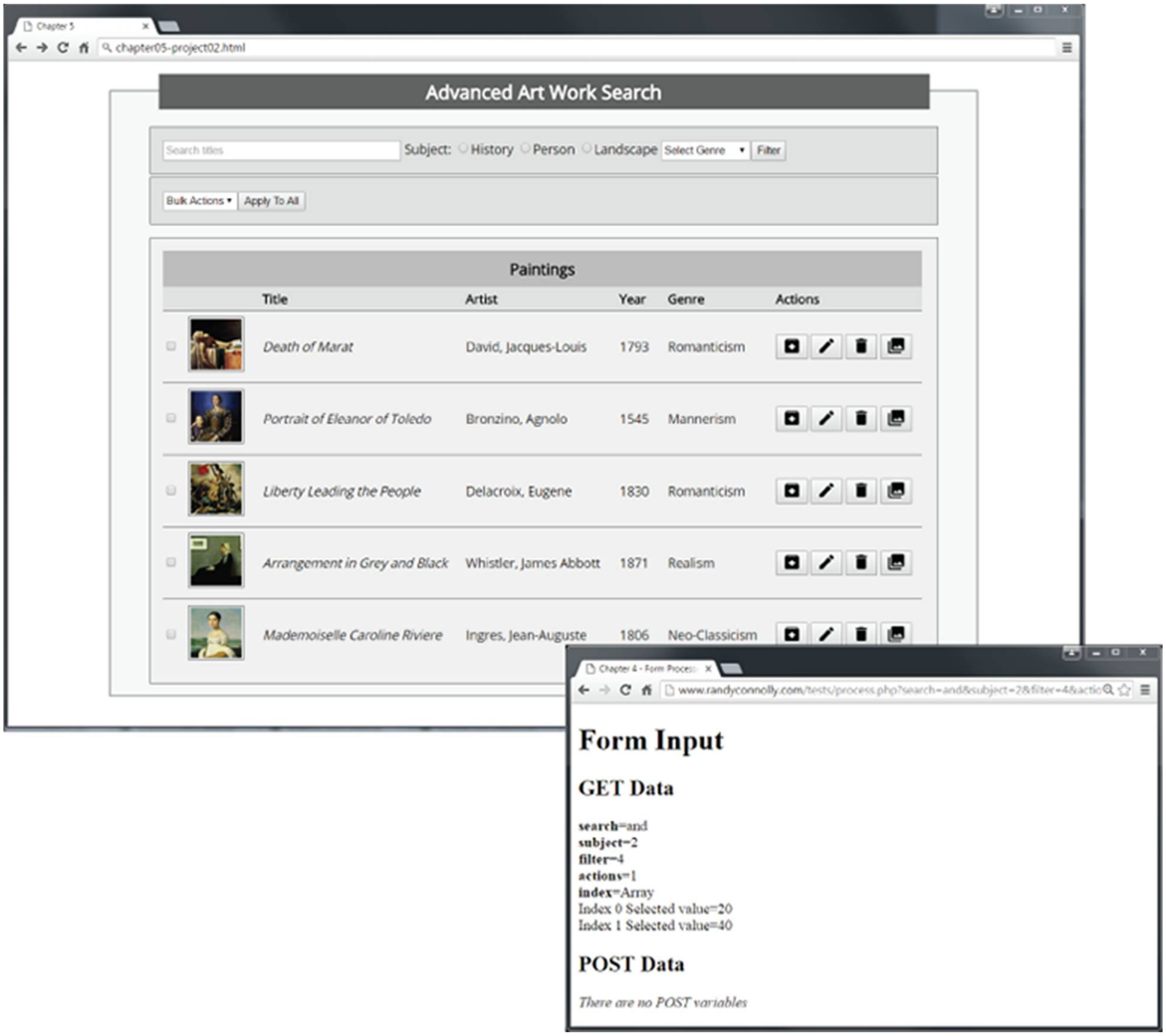
Testing

1. First, try resizing your browser to ensure the image resizes dynamically to fill the space, and the floating objects position themselves correctly.
2. Try out different browsers or platforms to see if it really works on all types of devices. To emulate mobile browsers, shrink the browser size, as shown in Figure 2.

Project 3 (HTML Table and Forms): *Advanced Art Work Search*

Overview

This project lets you edit Chapter05-project02.html and Chapter05-project02.css so the page looks similar to that shown in Figure 3.



Advanced Art Work Search

Paintings

		Title	Artist	Year	Genre	Actions
□		*Death of Marat*	David, Jacques-Louis	1793	Romanticism	
□		*Portrait of Eleanor of Toledo*	Bronzino, Agnolo	1545	Mannerism	
□		*Liberty Leading the People*	Delacroix, Eugene	1830	Romanticism	
□		*Arrangement in Grey and Black*	Whistler, James Abbott	1871	Realism	
□		*Mademoiselle Caroline Riviere*	Ingres, Jean-Auguste	1806	Neo-Classicism	

Form Input

GET Data

search=and
subject=2
filter=4
actions=1
index=Array
Index 0 Selected value=20
Index 1 Selected value=40

POST Data

There are no POST variables

Figure 3 Completed Project 3

Instructions

1. The **form** at the top of this page consists of a text box, a list of radio buttons, and two drop-down lists. For the Genre dropdown list, make the other choices “Baroque,” “Renaissance,” and “Realism.” For the Bulk Actions dropdown list, make the others choices “Archive,” “Edit,” “Delete,” and “Collection.” The drop-down list items should have numeric values starting with 0. Notice the placeholder text in the search textbox.
2. Create a **table** of paintings that looks similar to that shown in Figure 3. Be sure to make the table properly accessible.
3. The checkboxes in the table should be an array of elements, for example, `<input type=“checkbox” name=“index[]” value=“10” />`. The name and values are arbitrary, but each checkbox needs to have a unique value.
4. The action buttons in each row are a series of `<button>` containers with a dummy link and an image within the button.
5. Set the form's method attribute to `GET` and its action attribute to http://www.randyconnolly.com/tests/process.php.
6. While some of the styling has been provided, you will have to add some additional CSS styling.

Testing

1. Test the form in the browser. Verify that the output from process.php matches that shown in Figure 3.

(End of Assignment 1)