

Project 4: Photo Gallery

Objectives:

At the end of this project, you will be able to:

- Create thumbnail images
- Add captions to images
- Make images link to other web pages
- Build a simple set of navigation links for a multiple-page website

Instructions:

1. Create a new folder called "Photo Gallery".
2. Search the internet for five images (jpg, gif, or png format only) related to one of the following topics (or a different topic with your teacher's approval):
 - a) National Landmarks
 - b) Dog or Cat Breeds
 - c) Car Models
 - d) Sports Stars
3. Save the image files to the "Photo Gallery" folder. Ask your teacher if you need to rename the files (e.g. to change to lower case or remove spaces).
4. Using image editing software, create new thumbnail images for each of these five photos. Make sure the thumbnails are no more than 150 pixels high or wide. Name the files by adding a "thumb_" in front of the original file names. For example, if the full-size image is named "jordan.jpg", the new thumbnail image should be called "thumb_jordan.jpg".
5. Create a new XHTML document, using the skeleton template, and save it as "index.html" in the "Photo Gallery" folder. This will become the new home page for this project.
6. Change the title to "My Photo Gallery" and add a main heading that reads, "Photo Gallery: " and the name of your topic.
7. Repeat the following steps for each of your five images:
 - a) Place a thumbnail image into the web page, making sure that each element contains exact values for the height and width attributes and an appropriate description for the alt attribute.
 - b) Insert a paragraph element after the image.
 - c) Inside the paragraph, write a short caption describing the photo.
8. Create a new XHTML document and save it as "image1.html" in the Photo Gallery folder.

This will become a secondary page on your website that shows a full-size version of your first thumbnail photo.

9. Change the title of the new page to describe the first photo. Add a main heading and use the same description.
10. Place the full-size image into the web page, making sure that the `` element contains exact values for the height and width attributes and an appropriate description for the alt attribute. If the dimensions of the original photo exceed 800 pixels for either the height or width, make the photo display smaller on the page by adjusting the height and width attributes in proportion, so that the longer side is 800px.
11. Now we'll add some navigation to the bottom of the image page. We want the ability to go from any page on the site to any other page on the site. So place a line break after the image (to start a new line) and then insert a link that reads, "Back to Home" and link it to the home page. Add another line break element after the link element.
12. Add five more links, pointing respectively to pages called "image1.html", "image2.html", etc. and make the text of the link "First Image", "Second Image", etc. Add a line break after each link element. Once complete, there should be six text links at the bottom of the page.
13. Now that you've completed this first image page, save it. You need to create four more very similar pages for the remaining images, but instead of starting over with the skeleton page, you're going to use a common technique to save a lot of time.
14. Make four duplicate copies of the "image1.html" file and name them "image2.html", "image3.html", etc. Make sure that all these files are in the same "Photo Gallery" folder.
15. Open the "image2.html" file in your text editor and change only those elements that will be different: title, heading, and image elements. Save the file and repeat this process for the remaining three files.
16. The only remaining task is to convert the thumbnail images on the home page to become links to the separate pages containing the larger images. Open the "index.html" page in your text editor.
17. Find the five `` elements for the thumbnails and surround each of these elements with an anchor element pointing to the corresponding secondary page.
18. If you've done everything correctly, your photo gallery website should now be working! To test it, open the "index.html" file in your web browser and make sure all the thumbnail images are displaying. Click on each one to verify that the link goes to the correct secondary page. Test the navigation links on the secondary pages to make sure they work correctly. If something is not working, check for these common mistakes:
 - a) A filename is spelled wrong.
 - b) A filename is missing an extension or has the wrong extension (.html, .jpg, etc.).
 - c) A file is not in the correct folder.
 - d) One of the XHTML syntax rules has been broken.

Rubric 4: Photo Gallery

Name: _____

Component	Possible Points	Score
Home Page:		
Thumbnail images created in proportion to the originals, 150px or less per side, and named correctly.	4	
Thumbnail images display correctly on the page.	3	
Each thumbnail image element has the exact dimensions specified for the height and width attributes, and the alt attribute has been specified.	4	
An appropriate caption is below each thumbnail in a <p> element.	2	
Each image links correctly to the appropriate image page.	4	
There are no XHTML syntax errors on the page.	2	
Five Image Pages:		
Each image page displays a full-size version of the appropriate image.	4	
Each image element has the height and width attributes specified exactly or reduced in proportion so that no side is more than 800px.	4	
Each image page contains a set of working navigation links back to the home page and to each of the other image pages.	4	
There are no XHTML syntax errors on any of the pages.	2	
Total Score	33	