

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. Inside your Webstorm, create a new folder (or sub-directory) called "photo-gallery".
2. Search the internet for five images (.jpg, .gif, or .png format only which should be fairly large, i.e. at least 500px wide perhaps) related to one of the following topics:
 - a) National landmarks
 - b) Dog or cat breeds
 - c) Car models
 - d) Actors
 - e) Or one of your choosing
3. Save the image files to the "photo_gallery" folder inside a sub-folder (or sub-directory) called "img". Rename the files with your adopted naming convention (e.g. lower case, hyphens, underscores, remove spaces, etc.)
4. Using Photoshop, create a new thumbnail image for each of the five photos. Make sure the thumbnails are no more than 150 pixels wide. Name the files by adding a "thumb-" in front of the original file names. For example, if the full-size image is named "paris.jpg", the new thumbnail image should be called "thumb-paris.jpg".
5. Create a new HTML5 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 width and height 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 HTML 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 width or height, make the photo display smaller on the page by adjusting the width and height 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 individual 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 HTML syntax rules has been broken.

19. Upload the entire project folder to GitHub by dragging the folder when prompted. Think about how uploading a folder, instead of an individual html file changes the file path that you paste into the discussion thread that contains links from the previous projects.