# Assignment 5: Create a Picture Gallery

## Objectives

* Write and validate an HTML file for a web broswer.
* Use web-safe fonts and colors in properly written CSS.
* Use the Flexbox feature of CSS.
* Learn to use the “:hover” selector in CSS.

## Instructions

Everything should go in a directory called “firstname\_lastname\_assignmentNo” (where “No” is the assignment number). There are no points associated with this requirement, but if you don’t do this properly, we will deduct 10 points.

The purpose of this assignment is to build an image gallery site. The user will see a collection of images on the screen. When the user hovers their mouse over an image, it will enlarge to be the full width of the **main** tag. This is a pretty simple effect and done entirely with CSS. To do this, you’ll need images and lots of them. I downloaded 10 images from unsplash.com and put them into my **images** subfolder. Pick a theme for this gallery. I picked “mountains” and all of my photos are about mountains and the text is about mountains. 10 images is worth 5 points.

I ended up writing about 50 lines of HTML and close to 100 lines of CSS for this assignment. It’s a very CSS-heavy page.

### Part 1. 25 points.

In this part, you’ll be crafting your HTML. There should four sections to your HTML document:

* header (5 points)
  + Contains a title: “Image Gallery: [Name of topic here]”
  + Contains an HR tag.
  + Contains a **nav** tag. Inside the **nav** tag, put an unordered list of links to various pages about your topic. Put at least three links in an unordered list.
* main (10 points)
  + Contains all 10 images you were told to collect. I gave each one a class of “galleryimage”.
* aside (5 points)
  + Contains an h2 tag that outlines “About [Name of topic]” and then a few sentences about your topic. I copied mine from the Wikipedia entry about mountains. :)
* footer (5 points)
  + Copyright symbol, the current year, and your name. This will probably never change.

### Part 2

In this part, you’ll craft your CSS code. There are three instances of Flexbox that I want you to include.

* The body. 10 points.
  + Set the body tag to be 80% width.
  + Set the margin to be “auto”.
  + Set set the display to be “flex”. (This is the first flex instance. Since there are only four main tags in your HTML, this should work.)
  + Set the Flexbox to wrap.
  + Use the “space-around” to justify the content.
  + Use either a background image or a color other than white.
* For the h1 and h2 tags, use a Google font from the website http://fonts.google.com. I used “Dancing Script” for mine with a backup font of “cursive”. You must use a backup font. You must set the width of h1 and h2 to 100%. 10 points.
* The tags header, main, aside, and footer all have a border radius of 20 pixels and a margin of 5 pixels. Set all of these tags to be a “border-box” for box sizing puposes. 5 points.
* The header. 5 points.
  + Make it look nice.
  + You must set the width to be 100%.
* The ul tag inside the nav. 10 points.
  + Remove the list style symbol on your unordered list. This is “list-style-type”.
  + Set the “ul” tag to be a flexbox. (This is the second flex instance.)
  + Use the “space-around” to justify the content.
  + Again, make it look nice.
* The main tag. 10 points.
  + Set this tag to be a flexbox. (This is the third flex instance.)
  + Set the flexbox to wrap the content.
  + Use the “space-around” to justify the content.
  + Again, make it look nice.
* The “galleryimage” class for the gallery images. 5 points.
  + Give each box a little bit of padding (1 pixel) and a 1 pixel border.
  + Set the width to be 30% of the container.
  + Set the margin to be 1 pixel.
* New selector! Look up “:hover” on w3schools. 10 points.
  + When the user hovers over an image with their mouse, the image jumps to 100% width.
* The footer. 5 points.
  + Do I need to say it? Make it look nice.

## Turn it in

* I will deduct 20 points for every error and 2 points for every warning when validating your files. Validating your content before submitting it is critical. Each of your files should show no warnings and no errors. Here’s the validator link: https://validator.w3.org/
* **Important**: Part of web design is that your websites must be readable. If anything on your page is not 100% readable, I will be deducting points. For example, if there is text on a background and the background makes the text unreadable, I will deduct points. If text flow is obstructed by an image, I will deduct points. If anything about your page makes it difficult to read the content, I will deduct points.
* There are several critical parts of this assignment that (if missing) will automatically fail the assignment:
  + The page content isn’t as specified in this assignment.
  + Using images which aren’t either taken by you or in the public domain.
  + You fail to put your name in the assignment.
* You need to upload exactly 1 files in the same upload:
  + **Zip up your folder** containing your HTML and image files into a single ZIP file and upload it.

Here’s an example of my website without hovering over any images.

Graphical user interface

Description automatically generated

Here’s an example of me hovering over an image with my mouse pointer to make the image fill the main panel width.

A picture containing graphical user interface

Description automatically generated