

Assignment #3

CS106E Spring 2022, Young

In this assignment we get some hands on practice working with HTML and CSS and begin creating a personal webpage. This assignment is due before the start of class Wednesday April 27th – submit it on Gradescope (Entry Code: 2R7JKV) before 1:30pm. Additional Administrative Details can be found at the end of this document. In order to carry out some parts of this assignment, you will need to download files from the Canvas web site. These files include an HTML “starter” file. Note there is no CSS starter file, as there is no specific information that needs to go into a CSS file. See the appendix for specific instructions on downloading files.

Make sure you check each part of the assignment by running it through the World Wide Web consortium’s validator program found at <http://validator.w3.org/> for HTML (I recommend using the “Validate by File Upload” validator option) and for CSS use <https://jigsaw.w3.org/css-validator/>

Honor Code Reminder

For the purposes of this class, if someone (other than your partner, a TA, or the instructor) looks at your HTML, CSS, PHP, or JavaScript code, or if you look at another student’s HTML, CSS, PHP, or JavaScript code, you have received too much assistance.

If in doubt, or if you’re concerned you have received too much assistance, explicitly document the help that you received. If you have specified in writing the help which you’ve received on an assignment, you will never be considered as having violated the CS106E honor code policy (although we may reduce the number of points you receive on the assignment).

Personal Web Page 1

Let’s start out by making a simple version of a personal web page. You can create the HTML file from scratch or begin with the starter file provided with this assignments download.

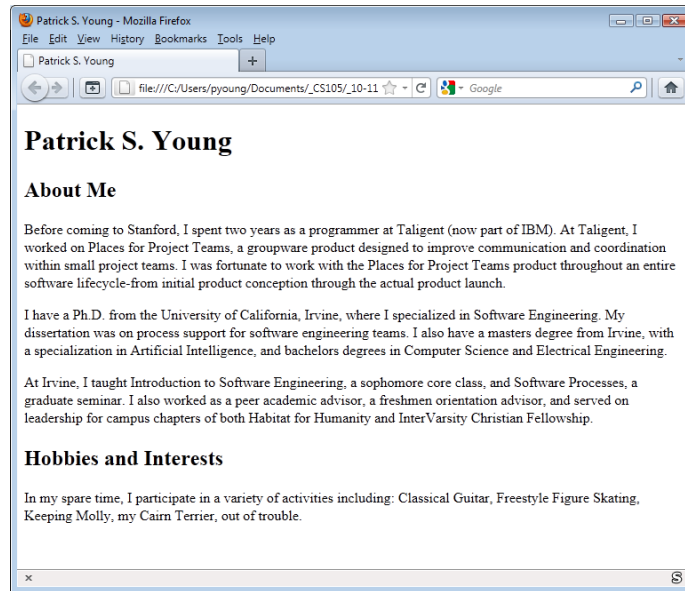
Your simple web page should include the following:

- Your name should appear at the top of the web page using an h1 element. If you’re working with a partner, put both your names at the top of the page.
- You should break the remainder of the webpage into two sections using h2 elements. The first section should be entitled “About Me” and the second section should be named “Hobbies and Interests”.
- Write two or three paragraphs about yourself for the “About Me” section, remembering to use the <p> tags to distinguish paragraphs. If you’re working with a partner write one or two paragraphs each. Write one or two paragraphs for the “Hobbies and Interests” Section.

- In addition to appearing at the top of your web page (via `h1` element), your name should also appear as the title of the web page by placing it in the `title` element. Don't forget that the `title` element belongs in the head section of the HTML file.

Go ahead and save your HTML file as `personal1.html`. Open it in Mozilla Firefox and make sure it works as you expect. Run it through the validator at `validator.w3.org` and make sure it doesn't have any errors.

This is more or less what your webpage should look like:



Good job, you've just created your very own web page.

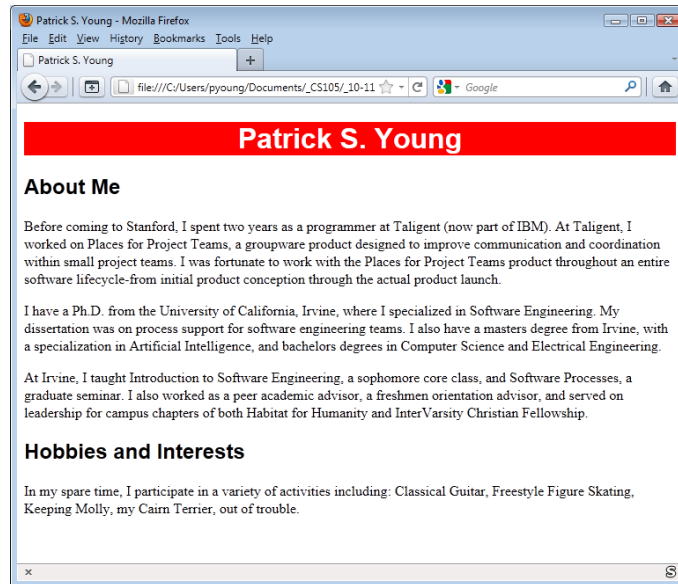
Personal Web Page 2

Modify your HTML file to read in a Cascading Style Sheet file by adding a `<link />` tag. The CSS file will be called `personal2.css`. Save your webpage under the name `personal2.html`.

Create a cascading style sheet file for your HTML file. You'll need to create this one from scratch—there is no CSS starter file. Make the following modification:

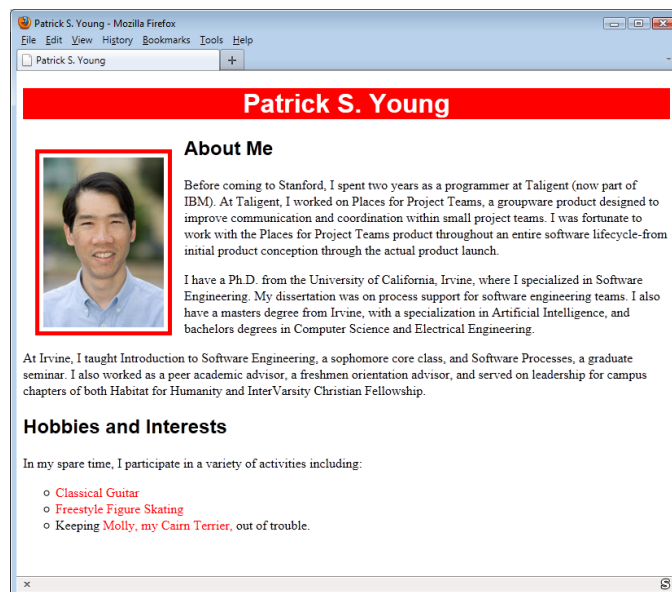
- Change the `h1` and `h2` elements to use sans-serif font.
- Change the text color and add a background color to the `h1` element but not the `h2` element.
- Center the `h1` element using the `text-align` attribute.

Feel free to make additional changes if desired. Here's what the revised webpage might look like:



Personal Web Page 3

Let's go ahead and extend our Personal Webpage – save this version as personal3.html and personal3.css. Here's what your revised page should look like:



Add the following three items:

- Make an unordered list of your “Hobbies and Interests.”
- Add links to external websites on at least two of your hobbies or interests.
- Add a photograph of yourself (or something else fun – and G-rated, please don't go all sketchy on the TAs).

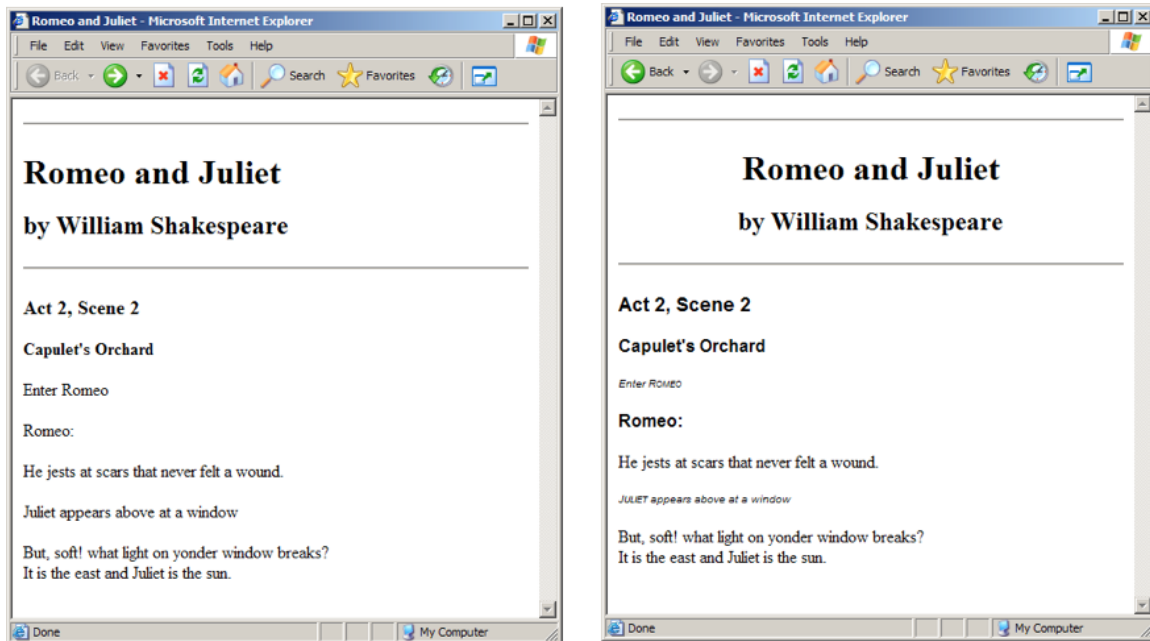
With your cascading style sheet:

- Move the image to the left of the webpage.
- Give the image a colored border, a margin, and some padding. Remember you must set a border-style or the border won't show up, even if you set a width and color for it.
- Change the styles on the links. Specifically change both the color when the link has been visited and when it has not been visited. Remove the underline. Using the :hover pseudo-class change the color when the mouse cursor moves over the link. Choice of colors is up to you.
- Change the bullets in the unordered list of "Hobbies and Interests." You can change them to squares, circles, or if you really want to get fancy use the list-style-image property to change them to an image.

You may make additional changes if desired, but make sure that all the items listed above are in the version that you turn in.

Additional CSS 1

Our next problem gives us an opportunity to work with classes. In this problem we are going to take an excerpt from a play by Shakespeare and format it using a style sheet. Here is the original and the modified version:



Sections of the play have been placed into the following classes: title, author, scene, location, stageDirection, actor, and dialog. Write your style sheet such that these classes are displayed using the following characteristics:

- title and author should both be displayed centered.
- scene, location, stageDirection, and actor should all be displayed in sans-serif.
- stageDirection should appear in xx-small size font and should be italicized.

- `actor` should be in bold.

In addition to these changes, we would like the actors' names as they appear in stage directions to appear in small caps. For example, note the small caps on Juliet's name in the stage direction "*JULIET appears above at a window*"

We want this change to occur *only* within stage directions.

Because the actors' names with a stage direction are not contained within their own set of tags, we'll need to add `` tags to get this effect. Add `` tags around Romeo in the line "Enter Romeo" and Juliet in the line "Juliet appears above at the window". Use these spans in conjunction with your style sheet to create small caps on these names.

Additional CSS 2

In this problem we take the styles defined in the "Romeo and Juliet" webpage from the previous problem and apply them to a set of Shakespeare plays. For this problem you will need to download the files which contain excerpts from the plays Henry V and Julius Caesar. Create a new copy of Romeo and Juliet which loads the style sheet from an external file. Modify the Henry V and Julius Caesar files to load the same style sheet as Romeo and Juliet. Notice that you can now change the appearance of all three plays by changing just one single style sheet file.

Administrative Details

You will need to turn in the following files for this assignment: `personal1.html`; `personal2.html`, `personal2.css`, `personal3.html`, `personal3.css`, and whatever image file you've used for `personal3.html`; your copy of `romeo-and-juliette-basic.html`; copies of `romeo-and-juliette.html`, `julius-caesar.html`, and `henry-v.html` loading the style sheet from a separate file along with the separate `play.css` file.

Finally, include a text file `coversheet.txt` with your name and your partner's name. If you did not work with a partner, just include your own name.