Assignment #1 (Part One)

HTML & CSS

CS193C Summer 2018, Young

The full assignment #1 will not be released until next week when we've gone over how to lay out webpages using grid, float, and flexbox layout methods. However, if you'd like to get some hands on practice with HTML and CSS, here's the first part of this assignment.

Administrative Details

The full assignment will be due at 1:30pm Thursday July 12th. Please submit to Canvas all parts of the assignment as a single Zip file. Check the Canvas for some files associated with this assignment (see the end of the handout for a full listing).

Make sure your files validate at:

http://validator.w3.org/ (for HTML)

http://jigsaw.w3.org/css-validator (for CSS)

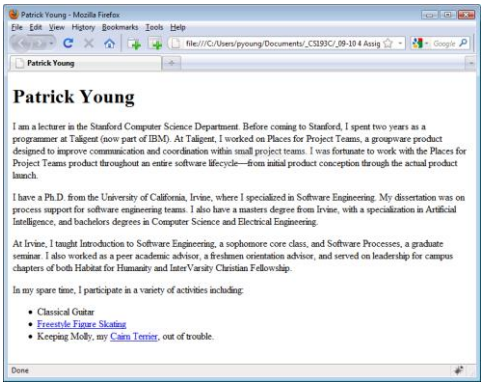
Your files should work on both the latest version of Mozilla Firefox and Google Chrome.

Personal Webpage (HTML Only Version) (0 pts, see next section)

Your first task is to create a personal webpage. If you already have one, please start the page for this assignment from scratch. Your personal webpage should contain the following items:

- Your name at the top of the page as an <h1> heading.
- A few paragraphs about yourself. Be sure to include the word Stanford at least twice in your paragraphs—we'll need that for the next problem in this assignment.
- A list of hobbies or interest displayed as an HTML unordered list.
- Link at least two of your hobbies or interests to websites related to those interests.

Here's roughly what the webpage should look like:



Stick to semantic HTML only. We'll spice it up with some CSS in the next part of this assignment. You can find a list of HTML elements commonly considered semantic HTML here:

`http://microformats.org/wiki/semantic-html`

Feel free to add in some additional items to your personal website if you'd like, but there is a more open-ended opportunity to be creative later in the assignment.

Make sure your webpage validates. Save your file under the name `personal.html`.

Personal Webpage (HTML & CSS Version) (12 pts)

Now add a CSS file called `personal.css` to the previous problem. It's okay to save the HTML file for this version of your personal webpage over the `personal.html` file from the previous problem, you only need to turn in this more advance version. Make the following changes and additions:

- Add a photograph of yourself and float it to the left side of the webpage using CSS. Add box information (margin, padding, and/or border) to make it look nice on the webpage.
- Change the font used throughout the document to sans-serif. To do this you can set the font for the `body` element, which will be inherited by all elements contained within the `body` (which is everything displayed on the webpage). Alternatively, you can create a style rule with the special *universal selector* which is represented by the asterisk. The universal selector matches any element, however it's not very efficient and will slow rendering of your page down a bit. For example the following rule will turn everything on the webpage to red:

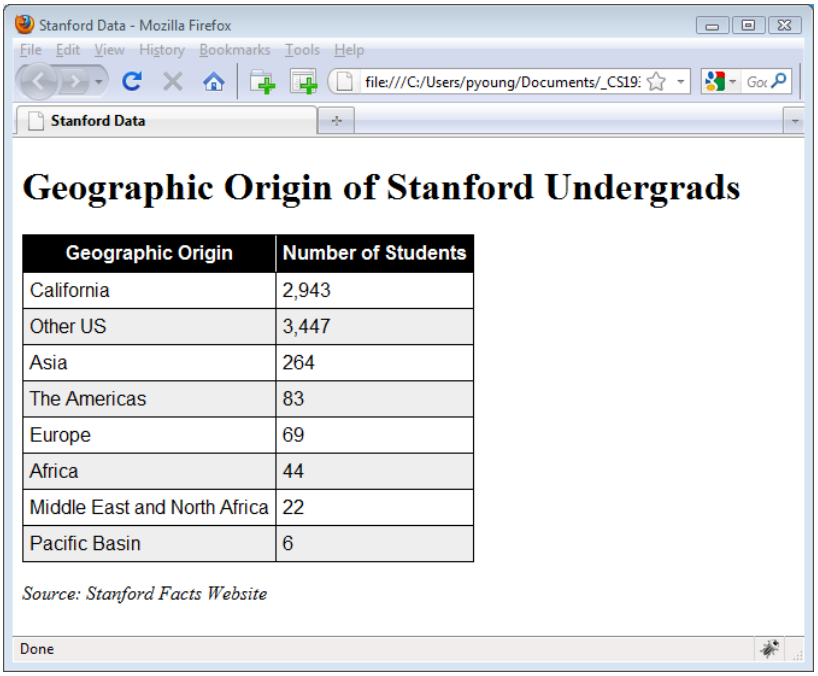
```
* {
    color: red;
}
```

- Center the heading with your name in it.
- Setup your links to use the "`:hover`" pseudo-class (use `a:hover` so that only the links are effected). How the link changes when the mouse moves on top of it is up to you, but if you're short on ideas, just have the link change colors.
- Add `<span>` tags and setup your style sheet so that every time the word "Stanford" appears, it is in red and is in bold.

Here's a sample screenshot. Make sure your webpage validates without errors through both the HTML and CSS validators.

Zebra Striping (8 pts)

In a zebra-striped table, every other row is a different color. In this problem you'll create a simple zebra-striped table using data on the Stanford undergraduate population. For this problem save your HTML file under the name `zebra.html`, and put your CSS directly into the HTML file using the `<style>` tag. Here is what your webpage should look like:



Your solution needs to display the following characteristics:

- The "Geographic Origin of Stanford Undergrads" heading and the Stanford Facts Website citation at the bottom are in the default serif font, whereas the table itself is in sans-serif.
- The table header row is white text on a black background.
- There is a thin white border separating the "Geographic Origin" cell from the "Number of Students" cell in the table header row.
- Odd-numbered rows (other than the black table header row) have a light gray background whereas even-numbered rows have a white background.
- All table cells (except those in the header) have a 1 pixel solid black border around them.
- The Stanford Facts citation at the bottom should be in italics (but don't use the `<i>` italics tag for this, that's not semantic HTML).

Here are a few implementation pointers.

- You'll need to use the `border-collapse` property on the table, otherwise all your table cells will end up with double borders.

- I used the color `#EEE` for my light gray background.

- For my implementation, I created classes for the odd rows and for the last row, but you're welcome to implement it differently, for example, you may want to play with the nth pseudo-classes to handle the zebra striping.

Blog Styling (20 pts)

In class, I showed an example of a blog in which various parts of the blog were marked using the class attribute. For this problem you'll use an enhanced version of that blog and provide styling for it. Make sure to use the `blog.html` file provided with this assignment's downloads, not the one used as a class example—the assignment version has extra `entryfooter` tags in it. This is your opportunity to get creative on this assignment. Here are the minimum requirements for full credit on this part of the assignment:

- Provide styling on the header and add in the Stanford Seal (provided with the assignment downloads) using an <img > tag with appropriate accompanying CSS.

- Make sure that each blog entry is appropriately distinguished, so that a viewer can easily tell where each blog entry starts and stops.

- Add styling to each entry heading and each entry footer.

- Make your blog look better than my class example!

I've provided a jpeg of the Memorial Church before the earthquake (from Stanford University Archives) in case you want to add it in.

Provided Files (for Part One)

The following files are provided with the assignment part one download:

- blog.html is an enhanced version of the HTML file from class. You'll need to add your own <style> tag (or a <link> tag and an external file) for the assignment. As previously noted, I've also provided you with a Stanford Logo and a photo of Memorial Church from the Stanford University Archives in case you want to add a picture to your blog.