**.Assignment #1 - HTML, CSS & Microformats**

Assignments must be completed individually, and all referenced materials (tutorials, guides, documentation, etc.) must be cited. Each assignment will typically have a component that requires a bit of original research related to a topic covered in class. You are welcome to ask questions, though you are expected to do a fair amount of legwork on your own. Review esr's guide on asking good questions from Lab #1 to get the most out of any outside help requested.

**The Resume, Due Thursday, September 29, 2016 at 11:59:59pm**

Online portfolios are often used to showcase the work of web professionals, not only to highlight their experience but also to demonstrate that experience in the document itself. Regardless of whether you intend to pursue a career in the field, however, it never hurts to have an online resume that you can link to. For this assignment, you will be creating a resume that demonstrates your proficiency with the skills you've learned in class so far, while highlighting your other talents and experience.

**Part 1: Markup & CSS**

Your resume, named .html (styled with .css), should include...

* Full Name
* Address
* Phone
* Email (link)
* Photo of yourself
* Objective Statement/Intro
* Education (minimum 2 items, include secondary school)
  + Institution (link to website if available)
  + Degree Program (if post-secondary)
  + Dates
  + Details/Accomplishments
* Work Experience (minimum 3 items)
  + Organization (link to website if available)
  + Title
  + Dates
  + Details/Accomplishments
* Skills (minimum 8 items)

If you do not have the given number of entries for a given item, you may (must) invent items to fill the difference for the purposes of this assignment.

**Part 1b: Microformats**

Microformats provide a set of conventions for reusing existing HTML tags and attributes to embed additional semantic information into the document. The hCard microformat, for example, uses tags and attributes to provide additional metadata about individuals and organizations and their contact information (similar to a business card).

To receive credit for this part of the assignment, research the hCard microformat, and use it to mark up your contact information.

**Other requirements for Part 1:**

* DOCTYPE: HTML 4.01 Strict, XHTML 1.0 Strict, HTML5, or any DTD that is a superset of (includes) these specifications. Choose the one that meets the needs of your document instance according to the specs outlined above. **Note:** For those who choose to use HTML5, the semantic meaning of some elements may have changed. Double-check your work by reading the spec!
* Must be presentable in the following browsers:
  + Chrome (latest)
  + Firefox (latest)
  + Safari (latest)
* Markup must validate according to the doctype used. Use a validator to check your work!
* CSS must validate as either CSS 2.1 or CSS3, with exceptions made for vendor-prefixed properties and those added through conditional comments. If in doubt, ask.

**Some things to consider:**

Make sure your markup is semantically correct. This isn't always as easy as it sounds! You'll want to look up a reference, and search the Web for examples of how others mark up similar content. Avoid using divs and spans unless no other element makes intuitive sense, and be prepared to explain why.

Make good use of positioning. Have a look at how other websites (especially single-page resumes and portfolios) lay out their content. Use them for inspiration only, and be sure to reference them in your README.txt if you do!

Pay attention to layout and design. You won't be graded as EMAC seniors as far as visual design is concerned, but as IT/CS students who genuinely care about making something look nice. It should be both readable and presentable.

Format your markup and CSS consistently with respect to case, indentation, etc. Using two spaces for indentation between each nested level in HTML (and in front of each declaration in CSS) is generally standard. Recall that good markup is self-documenting, though comments may (and should) be used to assist in organizing the source.

Be creative and experiment! Use some of the advanced techniques described in Lecture #6 if it makes sense to do so.

**Part 2: README.txt**

In addition to the markup and CSS, submit a file called \_README.txt. The file must include:

* Your name
* Responses to the following questions, in the fewest amount of words necessary to explain thoroughly...
  + Why did you select the doctype you used?
  + How does your doctype compare to other commonly seen (strict) doctypes?
  + How is the markup for your document semantically correct? Are there any non-semantic elements that you needed for styling purposes? If you used divs and /or spans, be sure to account for them in your explanation.
  + In your own words, how is the hCard information you added useful to both humans and automated user agents trying to access your content?
* A list of any and all works referenced throughout the assignment, including tutorials, reference sheets, etc. Failure to cite all referenced works may result in a zero for the assignment and a two-letter drop in your final grade. When in doubt, email the instructor or TA.

**Grading Rubric:**

|  |  |
| --- | --- |
| Valid Semantic Markup | 20 points |
| Microformats | 15 points |
| Quality of Visual Presentation | 15 points |
| Quality of CSS (use of selectors, properties, etc) | 15 points |
| Markup Style (indentation, comments, etc) | 15 points |
| README.txt | 20 points |

**Total Assignment Value: 100 points**

**Submissions**

To submit your assignment, package your HTML, CSS and README.txt all in the same archive (zip or tar), named RCSID\_a1. Submissions should be sent via the assignment section on LMS.

**Challenge: Web Fonts & CSS3**

As discussed in class, progressive enhancement is a design philosophy in which a basic experience is created that will function on all audience browsers, and steadily embellished upon using features available to more modern browsers. More specifically, the developer begins with content annotated with solid semantic markup as a base, applies CSS (and possibly JavaScript), and then adds to that base according to the capabilities of increasingly more modern user agents.

**For a possible, additional ten points.** Use Web fonts and CSS3 to enhance the visual presentation of your document. In your README.txt, explain how your markup and stylesheet leverages the principles of progressive enhancement. Remember: the requirements state that the experience has to be *functional* in all listed browsers. This doesn't mean they have to be *identical*.

**Note:** It isn't enough to simply apply a few random CSS3 properties and change the font of everything in the document to receive full credit. You will be graded on your creativity as well as the execution. Experiment!

**Challenge Grading Rubric:**

|  |  |
| --- | --- |
| Use of Web Fonts and CSS3 | 7 points |
| README.txt | 3 points |

Date:

Submit either as a ZIP file or tarball of all required files.

NOTE: Max value for this lab is 100 points. If you accept the challenge – points will be added to the total received for the main lab. If the points for the main lab are less than 100, then the challenge points will be added to the total.