University of Washington, CSE 190 M, Spring 2007
Homework Assignment 1: Recipe
due Tuesday, April 3, 2007, 11:59pm electronically

This assignment tests your understanding of basic XHTML and CSS. You will create several files related to a pie recipe web site. Turn in the following files:

- index.html, the first of two web pages
- pie.html, the second of two web pages
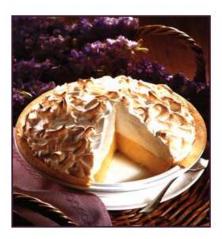- recipe.css, the style sheet for pie.html

In this assignment, you will be creating the web site for a small pie company named Granny's Pies. The first part of your task is to create a front page for this web site, stored in a file named index.html. Your front page must contain a link to pie.html. Otherwise, this front page can have any appearance you like. Be creative! We may show some students' pages in class on future dates.

The second part of the assignment is to recreate a specific web page describing the recipe for lemon meringue pie, stored in a file named pie.html. This page, unlike index.html, must exactly match the appearance specified in this document.

Expected Appearance:

You must match in appearance the following pie web page (between but not including the thick black lines):

One 9-inch pie
30 Min - Prep time
10 Min - Cook time
40 Min - Total
8 Servings

INGREDIENTS

* 1 cup white sugar
* 2 tablespoons all-purpose flour
* 3 tablespoons cornstarch
* 1/4 teaspoon salt
* 1 1/2 cups water
* 2 lemons, juiced and zested
* 2 tablespoons butter
* 4 egg yolks, beaten
* 1 (9 inch) pie crust, baked
* 4 egg whites
* 6 tablespoons white sugar

DIRECTIONS

1. **Preheat Oven:** Preheat oven to 350 degrees F (175 degrees C).
2. **Make Lemon Filling:** In a medium saucepan, whisk together 1 cup sugar, flour, cornstarch, and salt. Stir in water, lemon juice and lemon zest. Cook over medium-high heat, stirring frequently, until mixture comes to a boil. Stir in butter. Place egg yolks in a small bowl and gradually whisk in 1/2 cup of hot sugar mixture. Whisk egg yolk mixture back into remaining sugar mixture. Bring to a boil and continue to cook while stirring constantly until thick. Remove from heat. Pour filling into baked pastry shell.
3. **Make Meringue:** In a large glass or metal bowl, whip egg whites until foamy. Add sugar gradually, and continue to whip until stiff peaks form. Spread meringue over pie, sealing the edges at the crust.
4. **Bake:** Bake in preheated oven for 10 minutes, or until meringue is golden brown.

LINKS

Search for other lemon meringue pie recipes
Home

Appearance and Behavior Details:

All headings on the page should use the color (red=164, green=164, blue=0) or A4A400. The page's main heading also has a background color of (red=240, green=240, blue=240) or F0F0F0, is aligned to the center of the page body, and uses a 22pt bold font. The preferred fonts for the main heading are Century Gothic, Futura, Verdana, or any sans-serif font available on the system. Other headings on the page are left-aligned and appear in an 18pt normal font. The preferred fonts for such headings are Arial, Futura, or any sans-serif font available on the system.

The overall page body should have a white background and should be 800 pixels wide. Any text within the body should have a foreground color of (red=64, green=64, blue=64) or `404040` and use a 12pt font. Preferred fonts are Georgia, Garamond, or any serif font available on the system. Any links on the page should use the color (red=164, green=164, blue=0) or `A4A400`, matching the color of the page headings.

The four steps of the recipe directions are formatted in a strong font. The quotation from the recipe author appears with an italic font as an indented block quotation with background color (red=255, green=255, blue=200) or `FFFFC8`. The picture of the pie on the page and the W3C validator images at the bottom come from the following image files, respectively:

- http://www.cs.washington.edu/education/courses/cse190m/07sp/homework/1-recipe/images/pie.jpg
- http://www.w3.org/Icons/valid-xhtml10
- http://jigsaw.w3.org/css-validator/images/vcss

All other style elements on the page are subject to the preference of the user's web browser. The screenshot in this document was taken on Windows XP using Firefox 2.0, which may differ slightly from the appearance on your system.

The bottom of the page has four links. The "Home" link should link to your `index.html` page. The "Search for other lemon meringue pie recipes" text, the "W3C XHTML 1.0" button, and the "W3C CSS" button should link to the following web pages, respectively:

- http://www.google.com/search?q=lemon+meringue+pie+recipe
- http://validator.w3.org/check/referer
- http://jigsaw.w3.org/css-validator/check/referer

The pie web page's title text should be `Grandma's Lemon Meringue Pie`.

Implementation and Grading:

Implement the content of your web page using XHTML 1.0 Strict as taught in class. For full credit, your page must successfully pass the W3C XHTML 1.0 Strict validator. You should choose appropriate HTML tags to match the structure of the content being displayed on the page. Do not express stylistic information in the HTML page itself, such as inline styles or presentational HTML tags such as `b` or `font`.

Express all stylistic information on the page using CSS defined in the file `recipe.css`. For full credit, your style sheet must successfully pass the W3C CSS validator. You should not use HTML or CSS constructs that have not been discussed in lecture or the slides.

Format your HTML and CSS nicely so that it is as readable as possible, similarly to the examples shown in class. Also place a comment in each file containing your name and section.

The majority of the points for this assignment will be for the `pie.html` and its `recipe.css` files. The `index.html` will also be graded, but it will be worth fewer points. The main stylistic constraint on your `index.html` file is that it should pass the W3C XHTML 1.0 and CSS validators. Beyond that it can contain any non-obscene content you like, even content that uses material we have not yet learned in lecture. Please do not link to external resources other than simple image files from your `index.html` page.

Submit your assignment online from the turnin area of the course web site. Make sure to turn in both `.html` files and your `.css` style sheet. You do not need to turn in the provided images. If your `index.html` page includes images that are linked using absolute URL paths, you do not need to turn in these images.

Please do not place a solution to this assignment online on a publicly accessible web site. If you are found to have done so, we will consider you as having violated the course academic integrity policy. Please see the course web site for directions on setting up password protection on your web space.