



East West University
Department of Computer Science and Engineering
Course: CSE479- Web Programming (Section 4)
Spring 2024

Lab Work -02

Objectives

You will build a simple website that uses

- Basic HTML
- Simple CSS

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Introduction

This assignment tests your understanding of basic HTML and CSS. You will write your solution in several files related to a recipe website for a fictional pie company named **Granny's Pies**. You will turn in the following files:

- **index.html**, the first of two web pages; appearance is up to you
- **pie.html**, the second of two web pages; must match a particular specified appearance
- **css/recipe.css**, the stylesheet for pie.html
- **css/index.css** the stylesheet for index.html

For full credit, upload your website to the web and have it match the guidelines in this document.

Index Page

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**. The file must also be at least 20 lines long and must contain at least 4 different HTML elements in its body. It also may not significantly borrow content from your **pie.html**. Otherwise, this front page can have any appearance you like. You should use the CSS file **css/index.css** with this page and submit it with your other files. Be creative!

Pie Recipe Page

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

You must match the pie web page shown on the next page of this document (perhaps that page will be clearer). The width of the screenshot below is based on a browser window width of 1024px; if your screen is a different size, the width of your page may not exactly match. ([Chrome Window Resizer extension](#) can help you resize your browser to any dimension; you could use 1024x768 to compare the images.) Any line breaks shown are added automatically by the browser, except lines that are clearly much narrower than the page width, such as the line "One 9-inch pie":

Provided Text

You do not need to type in all the text for the pie web page, only the HTML markup. We have provided a file containing the contents [specs/recipe-text.txt](#). You can copy and paste from this file into your **pie.html** page. The copyright character may not show up in the text file. Use the appropriate character entity to display that character.

Appearance and Behavior Details

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

All headings on the page should use a foreground color of **#A4A400** (*red=164, green=164, blue=0*) and a background color of **#F0F0F0** (*red=240, green=240, blue=240*). The font families for headings are *Lucida Sans Unicode*, *Helvetica*, *Arial*, or any *sans-serif* font available on the system (in that order). The page's main heading is aligned to the center of the page body and uses a **22pt bold font**. Other headings on the page are left-aligned and appear in an **18pt normal font**. All headings should be underlined.

The overall page's body should have a **white background**. Text in the body should have a foreground color of **#404040** (*red=64, green=64, blue=64*) and use an **11pt font**. The font families for page text are *Georgia*, *Garamond*, or any *serif* font available on the system. Any links on the page should use the color **#A4A400** (*red=164, green=164, blue=0*), matching the color of the page headings.

In the Ingredients list, the underlined words "tbsp" and "tsp" are abbreviations for "tablespoons" and "teaspoons" respectively. When the user hovers the mouse over these abbreviations, the full word should appear as a tooltip.

At the end of the Directions, the deleted word "~~cake~~" with a strikethrough line through it is replaced by the word "pie".

After the Links section there is a short copyright notice that appears as a section of pre-formatted text in a **monospace** font. The text is spaced such that the last letter lines up horizontally for each of the three lines.

Grandma's Lemon Meringue Pie



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

INGREDIENTS

- 1 cup white sugar
- 2 ¹/₂ cup all-purpose flour
- 3 ¹/₂ cup cornstarch
- 1/4 ¹/₂ cup salt
- 1 1/2 cups water
- 2 lemons, juiced and zested
- 2 ¹/₂ cup butter
- 4 egg yolks, beaten
- 1 (9 inch) pie crust, baked
- 4 egg whites
- 6 ¹/₂ cup 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 30 minutes, or until meringue is golden brown.

This is our favorite recipe here at Granny's Pies. It has been enjoyed by pie fans for many years. It's Granny's favorite! We hope you'll find that this recipe is delicious and also easy to follow; it's a piece of cake pie!

USER COMMENTS

This is a very fun recipe to follow, because Grandma makes it sweet and simple. This pie is thickened with cornstarch and flour in addition to egg yolks, and contains no milk.

- Esslie S.

Q: What do you call an ape who loves pie?
A: A meringue-utan.

- Vickie K.

This site can really engage my interest. Follow the recipe above and make it so! This pie is number one.

- Jean-Luc Picard

LINKS

[Search for other lemon meringue pie recipes](#)
[Home](#)

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More on Appearance and Behavior Details

The names of the four major steps of the recipe directions (such as "Preheat Oven") are **strongly emphasized**. The quotations from the users appear in an *italic font* as indented blocks with background color #FFFA8 (red=255, green=255, blue=168). Some words in the last quote are **bolded** for emphasis.

The picture of the pie and the W3C validator images at the bottom come from the following images, respectively:

- [images/pie.jpg](#) (use a relative URL to link this image)
- [w3c-html.png](#) (use an absolute URL to link to this and the next image; do not link to a relative URL on your hard drive)
- [w3c-css.png](#) (use an absolute URL)

The page bottom has four links. The "Home" link should go to your **index.html** page. Use a relative URL and assume it is located on the same site and directory as **pie.html**. The "Search for other lemon meringue pie recipes" text should go to

<http://www.google.com/search?q=lemon+meringue+pie+recipe&start=10>

The "W3C HTML5" button, and "W3C CSS" button should be used like this:

```
<a href="http://validator.w3.org/check/referer">  
    
</a>
```

You will not be able to get your code validated by just clicking on the button if your page is not hosted by a web server. To get your code validated, copy the text, and paste it in the textarea provided by the validator site when you select the **By Direct Input** option.

Use <http://jigsaw.w3.org/css-validator/> to validate your CSS.

Use <http://validator.w3.org> to validate your HTML.

All other decisions about styling on the page should be left to the web browser. Any styles mentioned previously that are the same as browser defaults do not have to be explicitly included in your CSS stylesheet.

More Features

In addition to the previous required features, you must also complete at least two (2) of the following additional requirements in your **pie.html** page. If you want to complete more than two of the extra features below, that is fine, but only two are required. Here is a page with all these features.

1. **Background:** Set the overall page to use a background image of: [silverware.jpg](#) The image should repeat in both directions across the page and should not move when the page is scrolled.
2. **Favicon:** Set the page to have a "favorites icon" ("favicon"). Use: [pie-icon.png](#) Favicons are explained in Chapter 3 of your text.
3. **Pie bullet:** Set all bulleted lists of items on the page to use an image for their bullet icon rather than the normal black circle. Use the following image: [pie_bullet.png](#)

4. **Wide headings:** Place **0.25em** horizontal spacing between neighboring letters in all headings on the page.
5. **Tight heading background:** Make it so that the **gray background** behind the headings on the page is only behind the text itself, not stretched across the entire width of the page.

As much as possible, you should implement these changes by modifying your CSS code rather than your HTML. Some of the CSS properties necessary will not have been covered in class, so you must learn them yourself. Try using the textbook or Google. There are some good HTML and CSS references such as the following sites:

<http://www.w3schools.com/tags/default.asp>
<http://www.w3schools.com/cssref/default.asp>

A screenshot of the expected output for all of the extra features is available [here](#).