

# ICE: HTML, CSS, and Validation

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## *Formatting a Recipe*

### Overview

Today you will be given an existing HTML page that already has significant content, in this case, a recipe. Your tasks are to:

- mark it up with the appropriate HTML tags
- improve the presentation of the page by utilizing a variety of CSS properties as well as type, class, and id selectors.
- run it through the HTML validator to ensure your markup is well-written

### Part 1: Get the files

1. Download a copy of the startup files from the **content** area of our myCourses conference.
2. Rename the included HTML file to: **kadayif.html**.
3. Change the contents of the **<title>** tag so it includes your full name
4. Now, go ahead and preview the file in your browser. You should see something like this:

Ararat Home Kadayif Yield: 24 servings Ingredients 2 lb Kadayif dough(Shredded Filo) 1 1/2 c Butter, melted 1 qt Half and half cream 1 qt Heavy cream 3/4 c Cornstarch 3/4 c Milk 4 c Sugar 3 c Water Few drop fresh Lemon Juice Directions Cut and fluff 1 lb of Kadayif dough in bowl with hands. Add half melted butter and mix until strands are evenly coated. Spread evenly in lightly buttered 17x13-inch baking pan. Combine half and half and heavy cream in large saucepan. Bring to slow boil over low heat. Combine cornstarch and milk, stirring until cornstarch is dissolved. Slowly add to cream mixture, stirring constantly, until mixture returns to slow boil. Spread hot cream filling over kadayif in pan. Cut and fluff remaining 1 lb. of kadayif in bowl. Add remaining melted butter and mix with hands until strands are evenly coated. Spread over top of cream layer, pressing down firmly to form an even surface. Place on lowest oven rack and bake at 450 degrees F. until golden brown, about 20-25 minutes. If not golden, move pan to top rack and bake 5 to 10 minutes longer. Meanwhile, prepare syrup. Combine sugar and water in saucepan and boil 5 to 10 minutes. Add lemon juice. Cool. Pour cold syrup evenly over kadayif as soon as it is removed from the oven. Cut into squares to serve. source: <http://www.recipesource.com/ethnic/africa/middle-east/armenian/ararat-home-kadayif1.html>

5. Pretty ugly, huh? Let's continue to part 2

## Part 2: Adding Structure and Meaning to the Content

Let's add some structural and semantic tags to this mess!

1. Add `<h1>` tags to the name of the dish at the top of the page.
2. Put the text "Yield: 24 Servings" into a `<p>` element.
3. Make the text "Ingredients" and "Directions" level 2 headers.
4. Put the ingredients into an **unordered** list. Give this list a **class** attribute of "ingredients".
5. Put the directions into an **ordered** list.
6. Make the URL on the bottom of the page a hypertext link.
7. Wrap the updated URL in a `<footer>` element. It should look like this:

```
<footer>
    <a href = "http://...">source: http://...</a>
</footer>
```

Note: replace the "..." with the rest of the URL.

8. Right after the `<h1>` element, add an `<img>` tag that displays the image file provided. Set the **src**, **alt**, and **title** attributes to the appropriate values.
9. Add a link at the bottom of the page (after the source link) that goes to your home page (the index.html page you posted the last time). Wrap this link in a `<p>` tag.
10. Preview the page. It should look like the image at the top of the next page.

## Ararat Home Kadayif



Yield: 24 servings

### Ingredients

- 2 lb Kadayif dough(Shredded Filo)
- 1 1/2 c Butter, melted
- 1 qt Half and half cream
- 1 qt Heavy cream
- 3/4 c Cornstarch
- 3/4 c Milk
- 4 c Sugar
- 3 c Water
- Few drop fresh Lemon Juice

### Directions

1. Cut and fluff 1 lb of Kadayif dough in bowl with hands. Add half melted butter and mix until strands are evenly coated. Spread evenly in lightly buttered 17x13-inch baking pan.
2. Combine half and half and heavy cream in large saucepan. Bring to slow boil over low heat.
3. Combine cornstarch and milk, stirring until cornstarch is dissolved. Slowly add to cream mixture, stirring constantly, until mixture returns to slow boil. Spread hot cream filling over kadayif in pan.
4. Cut and fluff remaining 1 lb. of kadayif in bowl. Add remaining melted butter and mix with hands until strands are evenly coated. Spread over top of cream layer, pressing down firmly to form an even surface.
5. Place on lowest oven rack and bake at 450 degrees F. until golden brown, about 20-25 minutes. If not golden, move pan to top rack and bake 5 to 10 minutes longer.
6. Meanwhile, prepare syrup. Combine sugar and water in saucepan and boil 5 to 10 minutes. Add lemon juice. Cool. Pour cold syrup evenly over kadayif as soon as it is removed from the oven.
7. Cut into squares to serve. Enjoy!

source: <http://www.recipesource.com/ethnic/africa/middle-east/armenian/ararat-home-kadayif1.html>

[My Home Page](#)

11. Test this page with the validator. Do not continue until the page passes validation.

## Part 3: Improving the Presentation with CSS

Now, we'll apply CSS to improve the overall presentation of the recipe.

1. Now, let's add some *document-level styles* into our kadayif.html page. Inside the **<head>** tag of the page (below the **<meta>** tag) add the following **style** tag:

```
<style type="text/css">
```

```
</style>
```

2. Inside of the <style> tag you just created, we will add a rule that will change the font for all of the text in the document. Add the following style rule between the <style> tags:

```
body {  
    font-family: "trebuchet ms", tahoma, verdana;  
}
```

Reload the page to make sure a change happened.

3. Now, add the following declarations to the **body** selector you just created:

```
margin-left: 10%;  
margin-right: 10%;  
border: 1px solid gray;
```

Test this! You should now see a border around the text.

4. Did you notice that the text is too close to the border? Let's fix that. Add the following to the **body** selector:

```
padding-left: 1em;  
padding-right: 1em;
```

Test it! There should be more room now. Notice how the **margin** declarations affect the *outside* of the body tag while the **padding** declarations affect the *inside* of the body tag. These properties work the same way with any of the other container elements (i.e., <p>, <ol>, <em>, etc.)

5. For fun, see if you can change the <h1> tag's background to a light gray. If you don't know how to set background colors in CSS, check in your textbook or search for it on-line.
6. Now, adjust the padding properties (padding-bottom, padding-top, etc.) of your **h1** rule so the text fits into its "box" a little better.
7. Add the declarations necessary to center the <h1> tags text using the **text-align** property.
8. **Stop!** Validate your page. Do not continue until your page validates correctly.
9. Now, try validating the CSS you have used in your page. You can find the CSS validator at:

```
http://jigsaw.w3.org/css-validator
```

10. Preview your page. It should look like the image at the top of the next page.

## Ararat Home Kadayif



Yield: 24 servings

### Ingredients

- 2 lb Kadayif dough(Shredded Filo)
- 1 1/2 c Butter, melted
- 1 qt Half and half cream
- 1 qt Heavy cream
- 3/4 c Cornstarch
- 3/4 c Milk
- 4 c Sugar
- 3 c Water
- Few drop fresh Lemon Juice

### Directions

1. Cut and fluff 1 lb of Kadayif dough in bowl with hands. Add half melted butter and mix until strands are evenly coated. Spread evenly in lightly buttered 17x13-inch baking pan.
2. Combine half and half and heavy cream in large saucepan. Bring to slow boil over low heat.
3. Combine cornstarch and milk, stirring until cornstarch is dissolved. Slowly add to cream mixture, stirring constantly, until mixture returns to slow boil. Spread hot cream filling over kadayif in pan.
4. Cut and fluff remaining 1 lb. of kadayif in bowl. Add remaining melted butter and mix with hands until strands are evenly coated. Spread over top of cream layer, pressing down firmly to form an even surface.
5. Place on lowest oven rack and bake at 450 degrees F. until golden brown, about 20-25 minutes. If not golden, move pan to top rack and bake 5 to 10 minutes longer.
6. Meanwhile, prepare syrup. Combine sugar and water in saucepan and boil 5 to 10 minutes. Add lemon juice. Cool. Pour cold syrup evenly over kadayif as soon as it is removed from the oven.
7. Cut into squares to serve. Enjoy!

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## Part 4: Adding Even More Rules

Now, make the following changes:

1. The items in your lists are tightly “scrunched” together. In the <style> tag, add a rule for the <li> tags that will put more space between each item. Use the following reference and look under the headings **padding** or **margin** for more ideas:

[http://www.w3schools.com/css/css\\_reference.asp](http://www.w3schools.com/css/css_reference.asp)

2. Add a gray (or any color other than white) background color to the list of ingredients. You can use the **ingredients** class selector to accomplish this. Check today’s slides if you don’t remember how to do this.
3. What happened? The background of the <ul class=“ingredients”> entity now stretches to fill most of the page. Fix this by using the **width** property in your style rule. Set the width to about 250 pixels. Then, set the **list-style-type** property to **circle**. Finally, adjust the padding so the list looks a little better.

4. This page would look a lot better if we put the image over on the right side of the page opposite the ingredients list. We can do this using the **float** property. We'll discuss **float** in our next lecture. For now, just add the following style rule to your page:

```
img { float: right; clear: both;}
```

5. Now, let's change the "Yield: 24 servings" paragraph so it uses an *in-line* style (as opposed to the *embedded* styles we have been working with). Move the HTML for this so that it is *before* the **img** tag, not after. Then change the tag as follows:

```
<p style="float: right; font-weight: bold">Yield: 24 servings</p>
```


6. Add a *class selector* rule named: **.important**. Set this rule so that text will be rendered in *red*, *10% larger* than the default font size, and with a *yellow* background.
7. Use the **<span>** tag to apply this class to the text "Place on lowest oven rack."
8. Now, use another **<span>** tag to apply the same class rule to the text "Cool" near the bottom of the instruction list.
9. Validate your HTML!
10. Your page should now look something like the image on the next page.

## Ararat Home Kadayif

### Ingredients

- 2 lb Kadayif dough(Shredded Filo)
- 1 1/2 c Butter, melted
- 1 qt Half and half cream
- 1 qt Heavy cream
- 3/4 c Cornstarch
- 3/4 c Milk
- 4 c Sugar
- 3 c Water
- Few drop fresh Lemon Juice

Yield: 24 servings



### Directions

1. Cut and fluff 1 lb of Kadayif dough in bowl with hands. Add half melted butter and mix until strands are evenly coated. Spread evenly in lightly buttered 17x13-inch baking pan.
2. Combine half and half and heavy cream in large saucepan. Bring to slow boil over low heat.
3. Combine cornstarch and milk, stirring until cornstarch is dissolved. Slowly add to cream mixture, stirring constantly, until mixture returns to slow boil. Spread hot cream filling over kadayif in pan.
4. Cut and fluff remaining 1 lb. of kadayif in bowl. Add remaining melted butter and mix with hands until strands are evenly coated. Spread over top of cream layer, pressing down firmly to form an even surface.
5. **Place on lowest oven rack** and bake at 450 degrees F. until golden brown, about 20-25 minutes. If not golden, move pan to top rack and bake 5 to 10 minutes longer.
6. Meanwhile, prepare syrup. Combine sugar and water in saucepan and boil 5 to 10 minutes. Add lemon juice. **Cool**. Pour cold syrup evenly over kadayif as soon as it is removed from the oven.
7. Cut into squares to serve. Enjoy!

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Now, while this page probably won't win any design awards, the "look" and accessibility of the content has radically improved!

## Part 5: Put Your Stamp On It

1. Change the background color of the footer text at the bottom of the page to a light gray color using the **footer** selector.
2. Add **three additional** CSS properties to the page that we have not yet used.

## Part 6: Validate Your Page

Use the online tools to make sure that your page is well-formed and passes HTML5 validation at <http://validator.w3.org>

Also validate the CSS! The CSS validator is extremely helpful in debugging wonky CSS:

<http://jigsaw.w3.org/css-validator/>

**\*\*\* ONCE YOU ARE DONE, UPLOAD THIS TO YOUR 230 EXERCISES FOLDER ON BANJO, AND LINK TO IT FROM YOUR MAIN PAGE. \*\*\***