

# CS 416

## Homework 1

### **1. Objectives**

The purpose of this assignment is to get you familiar with web page development and improve your skills in the areas below:

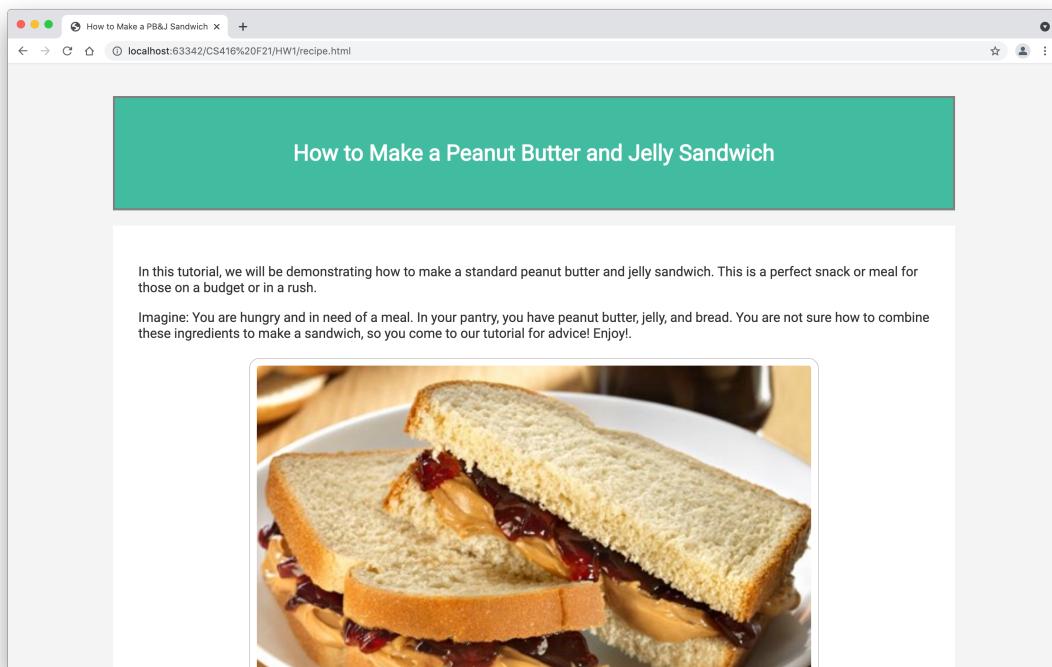
- Creating a web page using HTML
- Using CSS to style a web page

### **2. What to do?**

In this assignment, you are given several screenshots and a description of a particular web page to replicate. You will recreate this web page exactly as shown in the provided screenshots below. In particular, you will create an HTML file named `recipe.html` that describes how to make a peanut butter and jelly sandwich. You will also create a CSS file named `recipe-styles.css` that contains the styles for this page.

#### **2.1 Overall appearance**

The image below shows a miniature screenshot of the website you need to recreate in this homework. A full-size screenshot of the entire page is attached with this assignment on Blackboard. You can also see a video showing the look of this page.



### **2.1.1 Content of the page**

The content of the web page has been adapted from [this site](#) and you will also include a short description and link (see the acknowledgment section on the html page) in your page to indicate where this content was borrowed from. The text of the web page is in **recipe.txt**, which is attached with this assignment. Thus, you **do not need to type in all of the text** of this web page. You can copy and paste the text in **recipe.txt** into your text editor to create this page, and then add the HTML tags and necessary CSS styles. Links of images can be found in **image-links.txt**.

## **2.2 Appearance Details**

### **Overall page:**

- The overall page's **body** should have a background-color of **#f4f4f4**.
- Add a margin of 3% for top and bottom, and 10% for left and right sides, respectively.
- The background-color of each section is white.
- Set the font family to **Roboto** that you can get from Google Fonts by following the steps below:
  1. Go to <https://fonts.google.com/>
  2. Choose the font style **Roboto**, and then copy the given information under "Embed" section
  3. Add the given <link> tag into the <head> section of your page
  4. Add the given font name into your CSS so that this font style is applied to your overall web page.

### **Main Heading:**

- The page's main heading is aligned to the center of the page.
- This heading should have a background-color of **#44bca1**.
- The font color is white.
- It has a gray solid border that is 3px thick.

### **Images:**

- The width of the images should be set 70%.
- All the images should have a silver solid border that is 1px thick.
- The images should have 15px border-radius.
- The images should be aligned to the center of the page.
- See the "Section measurements Details" below for information about spacing.

### **Body Text:**

- Step Sections' headings
  - The step sections should have a heading that is not as large as the main heading (e.g., h2 can be used).
  - The font color of these headings is grey.
- Paragraphs
  - The font size is 1.2em.

- The font color is **#333333**.
- Optional items in Step-1 section
  - The phrase “Optional items” is underlined.
- Tip
  - The phrase “Tip” is underlined and bold.
  - The font color is gray.

### Links:

- The first two items of the ingredient list are links. You can find the URL for each of them in **recipe.txt**.
- The link color is **#42b4e6**.
- The link is not bold, and the link is not underlined unless you hover over the link.
- Hints:
  - When you hover over the link, the link becomes underlined. You can follow the steps below to achieve this,
    - To remove an underline for an anchor tag, you can use CSS property `text-decoration: none;`
    - To add an underline, you can use CSS property `text-decoration: underline;` with an appropriate selector `:hover`

### Lists

- The items in the ingredient list are list items with numbers. You should use appropriate html tag to produce these, rather than manually typing the numbers.
- The option list items are bullet points without numbers. You should use appropriate html tag to produce these.

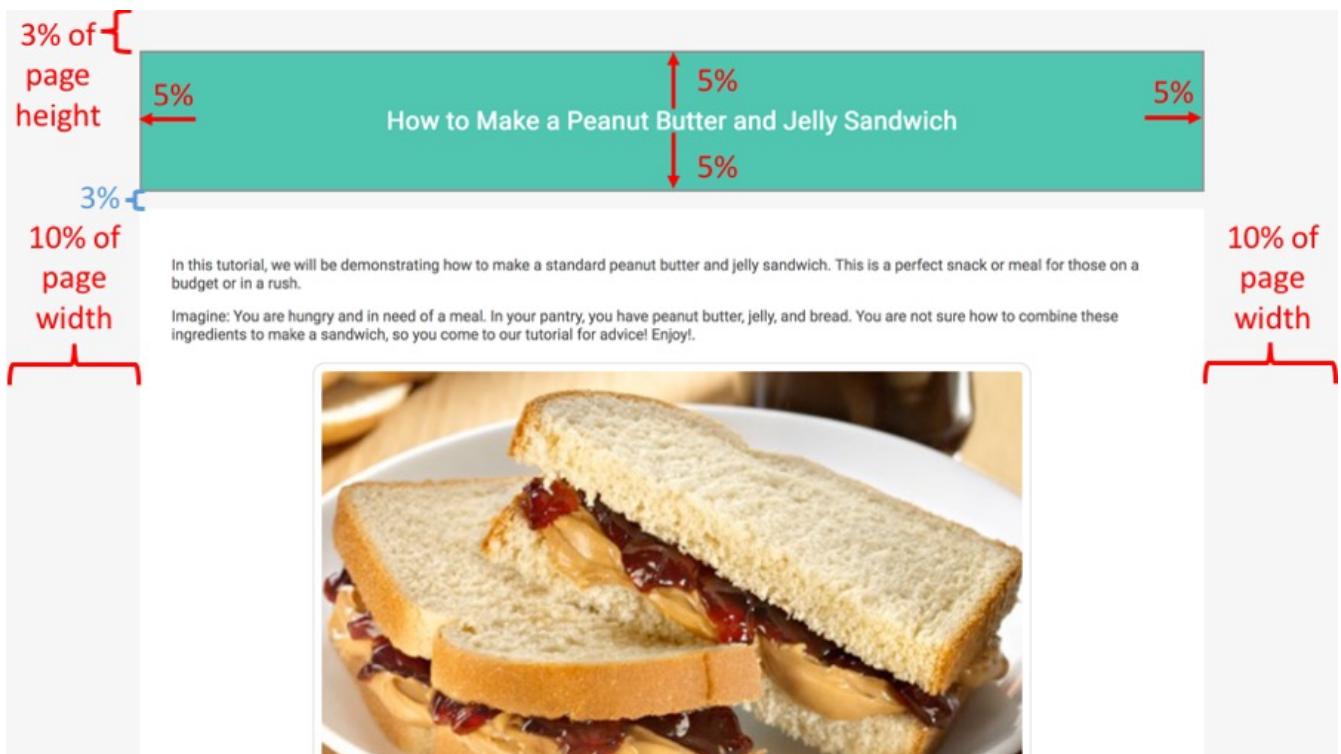
### User Comments:

- User Names:
  - Each user name is a middle size heading (e.g., h3)
- Comments:
  - The font size is 0.9em.
  - The font color is gray.
  - There is a horizontal rule separating each comment.
    - The horizontal rules may appear darker in the screenshot provided (i.e., horizontal rules may look slightly different in different browsers). However, there is no expectation that you should match the darkness of those horizontal rules (i.e., no further styling is needed).

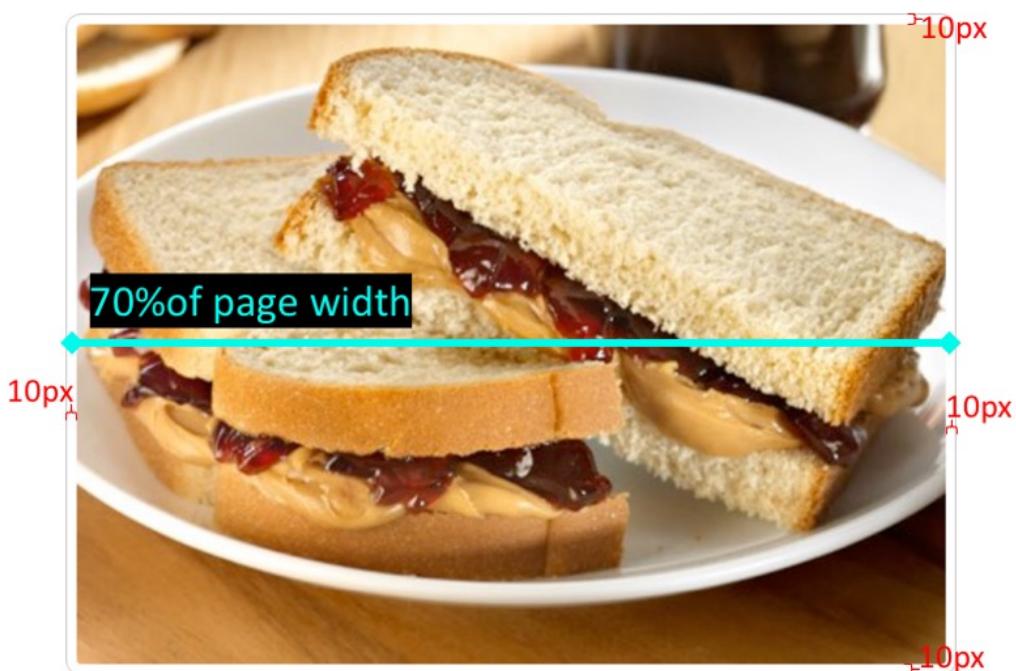
### Acknowledgment:

- Similar to the user comments section and the heading should be a little bit smaller (e.g., h4).

## 2.2 Section measurements Details

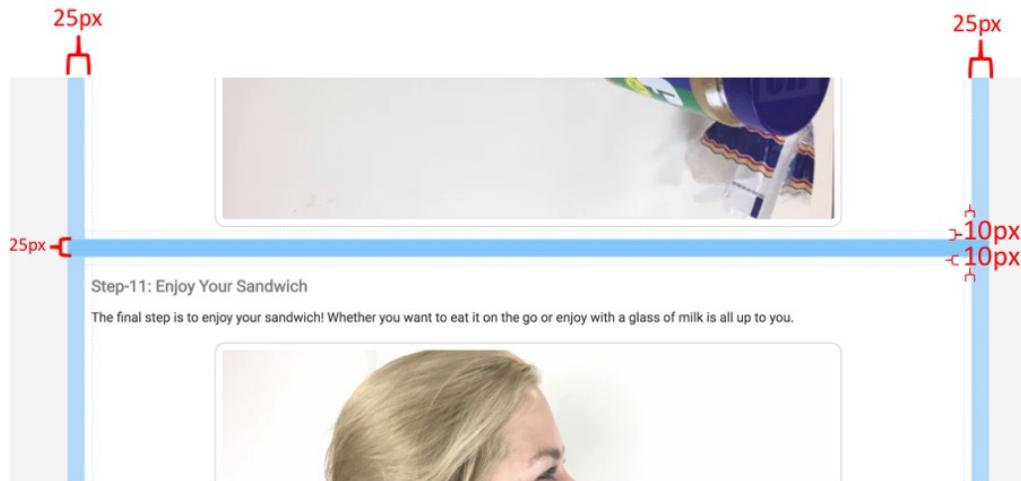


### Space between the image and its borders



## Space between step sections

Please note that blue rectangles used in below screenshot are used to help you understand the space between sections. Your page does not need to show those blue rectangles around the sections.



## Assignment Checklist:

The following is a checklist that you should refer to before submitting your assignment. This will prevent you making mistakes that you would otherwise lose points.

- Make sure that the web page you submit includes the html, head, title, body, and **doctype** tags.
- Make sure that your HTML file is well formed, meaning all the html, head, title and body tags are opened must be closed. For example, if you have `<body>` tag, you must have `</body>`.
  - You should check your HTML code using [“Nu Html Checker”](#)
    - [https://validator.w3.org/#validate\\_by\\_input](https://validator.w3.org/#validate_by_input)
- Try to avoid redundancy in your CSS as much as possible. You should not have too many redundant styles, if there are ways to use inheritance or special selectors to concisely define style rules. Points will be deducted if styles used for this page are too redundant.
- File names (e.g., html file, images, ccs file) should be all lower-case with no space to separate words, instead use `-` to separate words (e.g., `recipe-styles.css`).
- All the hyperlinks are working as expected.
- Make sure you follow the best HTML practices, which you can find under Lecture-2 on Blackboard.

## **What to submit?**

Submit a zip file containing the following on Blackboard:

- Archive of the entire project (please include your first and last name in the file name)
  - This should contain the HTML file (**recipe.html**) and CSS file (**recipe-styles.css**)
- A screenshot (in PNG, JPG or JPEG format) showing your web page in your web browser -- (just like the image attached to this assignment. You can use **Firefox** or **Chrome** to take a screenshot of full page (see the tutorial under “Tutorial” section on Blackboard)).
- Fill out the attached self-evaluation form and submit it along with the rest of the files

If for some reason you are still not able to submit your files, email your files to me before the deadline. Please attach your files to this email.

## **Getting help**

Start your assignment early. If you need help, send an email to me or make an online appointment with me during my office hours.