

Week 4 Tutorial

This tutorial includes Exercise4+Lab4. This tutorial is part of your assessment task 1. Please submit your completed work in ZIP format onto Moodle.

Note: Submit your ZIP file in your respective lecturer's tutorial submission link for marking and feedback.

Exercise4: Styling a Webpage

Instructions: In this exercise, you will use your text editor to create external, embedded, and inline styles for the Durango Jewellery and Gem Shop home page. You will style the sections of the semantic wireframe (**header**, **nav**, **main**, and **footer**) and a **div** element that surrounds all of the content to center the content on the page. You will also float an image to the left so that some of the content can fill the empty space to the right of the image. Finally, you will clear the float and add margins and borders to give your page a professional touch. The completed home page is shown in Figure 4.1. You will also use professional web development practices to indent, space, comment, and validate your code.

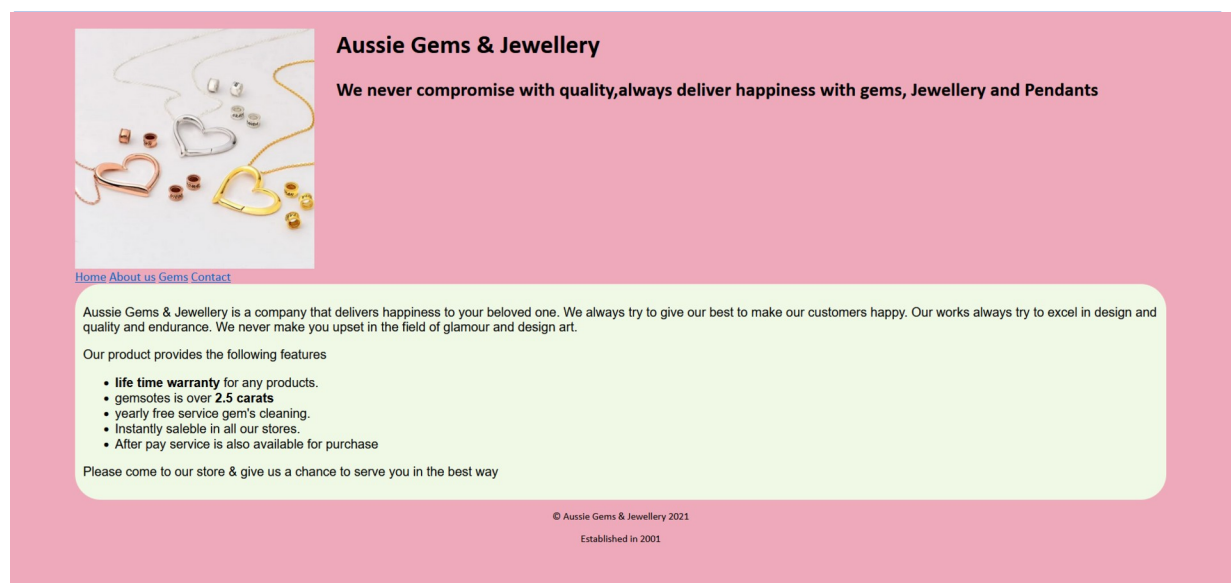


Figure 4.1

Perform the following tasks:

1. Open your text editor, and then download the week04_exercise.html file from your Week4 tutorial material in Moodle. Use the File Save As feature to save the webpage in the Week4 folder with the name **index04.html** to create the home page.
2. Modify the comment at the top of the index.html page to include your name and today's date.
3. Start a new file in your text editor and save it in the Week4 folder with the name **styles04.css** to create a style sheet.

4. Enter a CSS comment as the first line of the external style sheet with your name and today's date. Recall that CSS comments are entered within `/*` and `*/` characters.

5. Style the **body** element with a uniform black text color and #eab background color:

6. In the **head** section of the index04.html, enter an element to connect the page to the external style sheet:

```
<link rel="stylesheet" href="styles04.css">
```

Save your changes. Open or refresh index04.html in a browser to make sure that the style sheet is correctly connected to the HTML file.

7. Your next task is to center the content on the webpage. To do this, add `<div>` tags to surround the content in the wireframe, and then apply a style to center the content within the `<div>` tags as follows:

a. In index04.html, insert the `<div id="wrapper">` opening tag just after the opening `<body>` tag.

b. In index04.html, insert the `</div>` `<!--close the wrapper-->` closing tag and comment just before the closing `</body>` tag.

c. In styles04.css, insert the following declarations to constrain the wrapper to 90% of the width of the screen and to center the content within the wrapper:

```
#wrapper { width: 90%; margin: 0 auto ;
}
```

d. Save your changes to both files, and then open or refresh index04.html in a browser to make sure that the content is centered within 90% of the browser window.

8. Apply common sans-serif fonts to the **header**, **nav**, and **footer** sections, and common serif fonts to the `div id="main"` section by adding the following style to the external stylesheet:

```
header, nav, footer { font-family: Calibri, Arial, sans-serif;
}
#main { font-family: Helvetica, "Times New Roman", serif; }
```

(Hint: After each step, save index04.html and styles04.css and then refresh index04.html in the browser to make sure that each style is applied successfully.)

9. Style the text in the **footer** section to be 0.8em and centered by adding the following styles to the external stylesheet:

```
footer { font-size: 0.8em;
text-align: center;
}
```

10. Style the content within the `div id="main"` section to have a lighter background and 10px of

padding on all four sides by adding the following declarations to the existing `#main` selector:

```
background-color: #F0F9E6;
padding: 10px;
```

11. Float the image to the left with the following style so that the existing **h1** and **h2** content moves

to the right of the image:

```
img { float: left;
}
```

12. Clear the float for the nav section with the following style:

```
nav {
```

```
clear: both;
```

```
}
```

13. Add a margin to the left of the **h1** and **h2** content in the **nav** section to insert white space between the headings and the image. Given you want to apply the same rule to two specific headings (but not other **h1** and **h2** content on the website), you will first give the tags the same class attribute value and then apply the style to that class as follows:

a. In index04.html, insert **class="rightmargin"** to the opening **** tag in the **header** section.

b. In styles04.css, insert the following style to increase the size of the right margin for content tagged with **class="rightmargin"**

```
.rightmargin { margin-right: 2%;
```

```
}
```

14. In index04.html, insert an embedded style sheet just below the link tag in the **head** section to apply a rounded border to the **div id="main"** section:

```
<style>
```

```
#main { border-radius: 2em; }
```

```
</style>
```

15. In index04.html, insert **** and **** tags around “lifetime warranty” and “2.5 carats” in the first list item in the unordered list in the **div id="main"** section. Use the **style** attribute to give each opening **** tag an inline style that bolds the font of the content within the **** tags as follows:

```
<span style="font-weight:bold;">" lifetime warranty "</span>
```

```
<span style="font-weight:bold;">" 2.5 carats "</span>
```

16. Validate your HTML document using the W3C validator at validator.w3.org and fix any errors that are identified. Validation is complete when the validator returns the message “This document was successfully checked as HTML5!” in a green bar near the top of the webpage.

18. Validate your CSS file using the W3C validator at <http://jigsaw.w3.org/css-validator/> and fix any errors that are identified. Validation is complete with the validator returns the message “Congratulations! No Error Found.”

19. Submit the index04.html and styles04.css and image files in a format specified by your lecturer.

Week4 Lab: Creating an External Style Sheet for Bega Farmer

Problem: Bega Farmer has hired you to help create the home page. The content for the home page is in place, but it needs to be styled. Style the webpage shown in Figure 4.2 with an external style sheet.



Bega Farmer Society

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Urban farming is a growing trend, especially those focused on growing food. Whether the purpose of your efforts is to grow healthy food, grow affordable food, increase your self sufficiency, or even just because it is a rewarding and relaxing hobby, the following tips support all successful city farming efforts.

1. Make bega farmer friends in your area. Every climate and growing season is different. Learning what specific herbs or vegetables work well in your area is essential to success.
2. Start small. Pick a couple of things that are easy and reliable as starters.
3. Use good soil. Healthy plants cannot grow without it. You may need to add compost, nitrogen, or phosphorus. Again, the veterans in your area can help you develop good soil.
4. Plants need sunlight. Generally vegetables can use as much sunlight as possible, but some leafy greens will do well in shaded areas too.
5. Plants need water. It's hard to overwater vegetables, but each plant tolerates variations in moisture differently. Generally, a little water often is your best bet.
6. Keep the weeds out. Weeds waste valuable space, moisture and nutrients. Weeding your garden also gives you the chance to study your crop and make adjustments.



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Instructions: Perform the following tasks:

1. Open **week04_lab.html** in your HTML editor from your Week4 tutorial folder in moodle and then modify the comment at the top of the page to include your name and today's date. Make sure the `<title>...</title>` tags contain the text **Bega Farmer Home Page**.

2. Start a new file in your text editor, and save it in the week4 css folder with the name **farmerstyles04.css**

3. Enter a CSS comment as the first line of the external style sheet with your name and today's date. Recall that CSS comments are entered within `/*` and `*/` characters.

4. Enter a style to apply a uniform black text color, a uniform serif font, and light-blue background color to the body:

```
body { color: #000000;  
background-color: #eab;  
font-family: "Times New Roman", serif;  
}
```

5. In the **head** section of the week04_lab.html file, enter an element to connect the page to the external style sheet:

```
<link rel="stylesheet" href="styles/farmerstyles04.css">
```

Save your changes, and then open or refresh week04_lab.html in a browser to make sure that the style sheet is correctly connected to the HTML file. Note that in this exercise, the style sheet is saved in the styles folder, so that path needs to be included in the href value.

6. Center the content by adding `<div>` and `</div>` tags to surround the content in the wireframe, and then applying styles to center the content within the `<div>` and `</div>` tags as follows:

a. In week04_lab.html, insert the `<div id="wrapper">` opening tag just after the opening `<body>` tag.

b. In begafarmer04.html, insert the `</div> <!-- close the wrapper-->` closing tag and comment just before the closing `</body>` tag. Save your changes to week04_lab.html.

c. In farmerstyles04.css, insert the following style to constrain the wrapper to 70% of the width of the screen and to center the content within the wrapper:

```
#wrapper { width: 70%;  
margin: 0 auto 0 auto;  
}
```

Save your changes to farmerstyles04.css, and then open or refresh week04_lab.html in a browser to make sure that the content is centered within 70% of the browser window.

7. Style the text in the footer section to have a font size of 0.75em and appear centered by adding the following styles to the external stylesheet:

```
footer { font-size: 0.75em;
text-align: center;
}
```

(Hint: Save and refresh the week04_lab.html in your browser after every step to observe and study the impact of each style.)

8. Style the content within the **div id="main"** section to have a light-brown background and 10px of padding on the top by adding the following style:

```
#main { background-color: #C5A98B;
padding: 10px;
}
```

9. Float the image in the header to the left with the following style so that the <h1>, <h2>, and <nav> content moves to the right of the image:

```
img { float: left;
}
```

10. Remove the bullets from the list items in the nav section by adding the following style:

```
ul { list-style-type: none;
}
```

11. Push the content away from the image by adding a right margin to the img selector with the following declaration:

```
margin-right: 3%;
```

12. Clear the float so that the content for the div id="main" section starts on its own line by adding a second style rule with a #main selector:

```
#main { clear: both;
}
```

13. You decide to float the second image right instead of left. Right now, your float rule is written using the img selector so all img content is affected. To change the float value for the second image, complete the following:

a. Add a **class="floatleft"** attribute value pair to the first tag (the logo) in the week04_lab.html file. (Hint: The order of attribute value pairs in the opening html tag do not affect how the code works in the browser, but typically the most important attributes are listed first so the class="floatleft" attribute would often be listed second or third.)

b. Add a **class="floatright"** attribute value pair to the second tag (tomatoes in pots) in the week04_lab.html file.

c. In the farmerstyles04.css file, change the img selector to **.floatleft**

d. Just below the .floatleft style in the CSS file, add the following style to float the second image to the right:

```
.floatright { float: right;
margin-left: 3%;
}
```

Save both files and then refresh week04_lab.html in your browser.

14. To make sure the footer also starts on its own line, modify the selector for the rule that clears all float to include both the #main and footer areas as follows:

```
#main, footer { clear: both;
}
```

15. Validate your HTML code and fix any errors.

16. Validate your CSS code and fix any errors.

17. Save and open the week04_lab.html page within a browser as shown in Figure earlier.

18. Submit your tutorial in the format specified by your lecturer.