Tutorial 7

**WEBSITE CASE STUDY**

**JavaJam Coffee House**

In this case study, you will implement a new two-column CSS page layout for JavaJam. Fig. 1 below shows a wireframe for a two-column page layout with wrapper, header, navigation, main content, floating, and footer areas.

floatright

main

footer

nav

header

Figure 1 Wireframe for a two-column page layout for the JavaJam website

You will modify the external style sheet and the Home, Menu, and Music pages. Use the Chapter 4 JavaJam website as a starting point for this case study.

**Task 1**: **Configure the CSS**. Open javajam.css in a text editor. Edit the style rules as follows:

1. Modify the header element selector. In Task 3, 4, and 5 you will remove the javalogo.gif image from the HTML and code the website name, “JavaJam Coffee House” as h1 text. In this step you will configure the javalogo.gif as a background image with center background-position and no-repeats. Also remove the text-align style declaration and set the height to 100px, which corresponds to the background image height.
2. Configure the h1 element selector. Remove the line-height style declaration. Set the margin to zero. Apply a header text image replacement technique by setting text-indent to 100%, white-space to nowrap, and overflow to hidden.
3. Configure the left-column navigation area. Add style declarations to the nav element selector to configure an area that floats to the left, is 100 pixels wide, displays bold text, and has 10 pixels of padding on the top.
4. Configure the navigation hyperlinks. Use a descendant selector to add a new style rule for the anchor tags within the nav element. Configure this selector with 15 pixels of bottom padding and no underline on hyperlinks.
5. Configure the :link, :visited, and :hover pseudo-classes for the navigation hyperlinks. Use the following text colors: #996633 (unvisited hyperlinks), #ccaa66 (visited hyperlinks), and #330000 (hyperlinks with :hover).
6. Use descendant selector to configure unordered lists in the navigation area to display without list markers.
7. Modify the main element selector style rules for the right column. Change the padding to 10 pixels top, 30 pixels bottom, 20 pixels left, and 20 pixels right. Configure a 150 pixel left margin, background (#f2eab7) color, and text (#000000) color. Set overflow to auto.
8. Configure an area that floats to the right. Add 20 pixels of padding to the left side of this area.
9. Modify the footer style rules. Change the padding to 20 pixels top and bottom. Configure the footer to clear all floats.
10. Configure the :link, :visited, and :hover pseudo-classes for the footer hyperlinks. Use the following text colors: #ffffcc (unvisited hyperlink), #f2eab7 (visited hyperlink), and #330000 (hyperlink with :hover).
11. Modify the h2 element selector style rules with all uppercase text, background (#ffffcc), color (#663300), font size (1.2em), bottom border, padding (5px, 0, 0, 5px), and right margin (20px).
12. Configure a new class named floatleft that floats to the left with 20 pixels of right and bottom padding.

**Task 2: The Home page**. Open index.html in a text editor. Edit the code as follows:

1. Add the following HTML5 shim code in the head section of the web page after the link element (to assist Internet Explorer 8 and earlier versions).
2. Configure the h1 element. Replace the img tag that displays the javalogo.gif image with the text, “JavaJam Coffee House”.
3. Configure the left-column navigation area, which is contained within the nav element. Remove any &nbsp; characters that may be present. Code an unordered list to organize the navigation hyperlinks. Each hyperlink should be contained within<li> tags.
4. On a blank line below the opening main tag code a paragraph that contains the phrase “Follow the winding road to JavaJam…”.
5. Configure the image that floats to the right. Modify the winding road image element. Remove the align=”right” attribute and add class=”floatright” to the winding road image element.

**Task 3: The Menu Page**. Open the menu.html in a text editor. Configure the h1, left-column navigation area, navigation hyperlinks, and HTML5 shim in the same manner as the home page. Save the new menu.html page and test in a browser. Use the CSS and HTML validators to help you find syntax errors.

**Task 4**: the Music page. Open the music.html in a text editor. Configure the h1, left column navigation area, navigation hyperlinks, and HTML5 shim in the same manner as the home page. Configure the thumbnail images to float to the left. Add class=”floatleft” to the image tag for each thumbnail image. Save your new music.html page and test it in a browser. Use the CSS and HTML validators to help you find syntax errors.

**In this case study, you changed the page layout of the JavaJam website. Notice that with just a few changes in the CSS and HTML code, you configured a two-column page layout.**