

Lab Practical Sheet No. 04 – Creating Page Layouts with CSS – Cycle Pathology Reviewed

Practice Objective

To practice the CSS skills you have learned so far.

Review Practice Using Lecture Example

Material Requirements

The data files that are needed for this Lab Practical are as follows:

- ❖ `alisha.png;`
- ❖ `ap_logo2.png;`
- ❖ `modernizr-1.5.js;`
- ❖ `racetxt.css;`
- ❖ `rosetxt.htm;` and
- ❖ `slide01.png – slide08.png.`

Download the **ZIP Archive** containing these files and unzip them to a location in your file system that you should remember and then import the files into a newly created Eclipse “static web project”.

The Problem Scenario

Dan wants your help in designing a layout for the Cycle Pathology Web page that describes one of the group’s upcoming tours. He would like to use a flexible layout with a list of navigation links displayed on the left 20% of the page, with the remaining 80% of the page width devoted to page content. He also wants the page to contain a slideshow of the images from the previous events displayed with horizontal scroll bar. Figure 1 shows a preview of the page you will create for Dan.

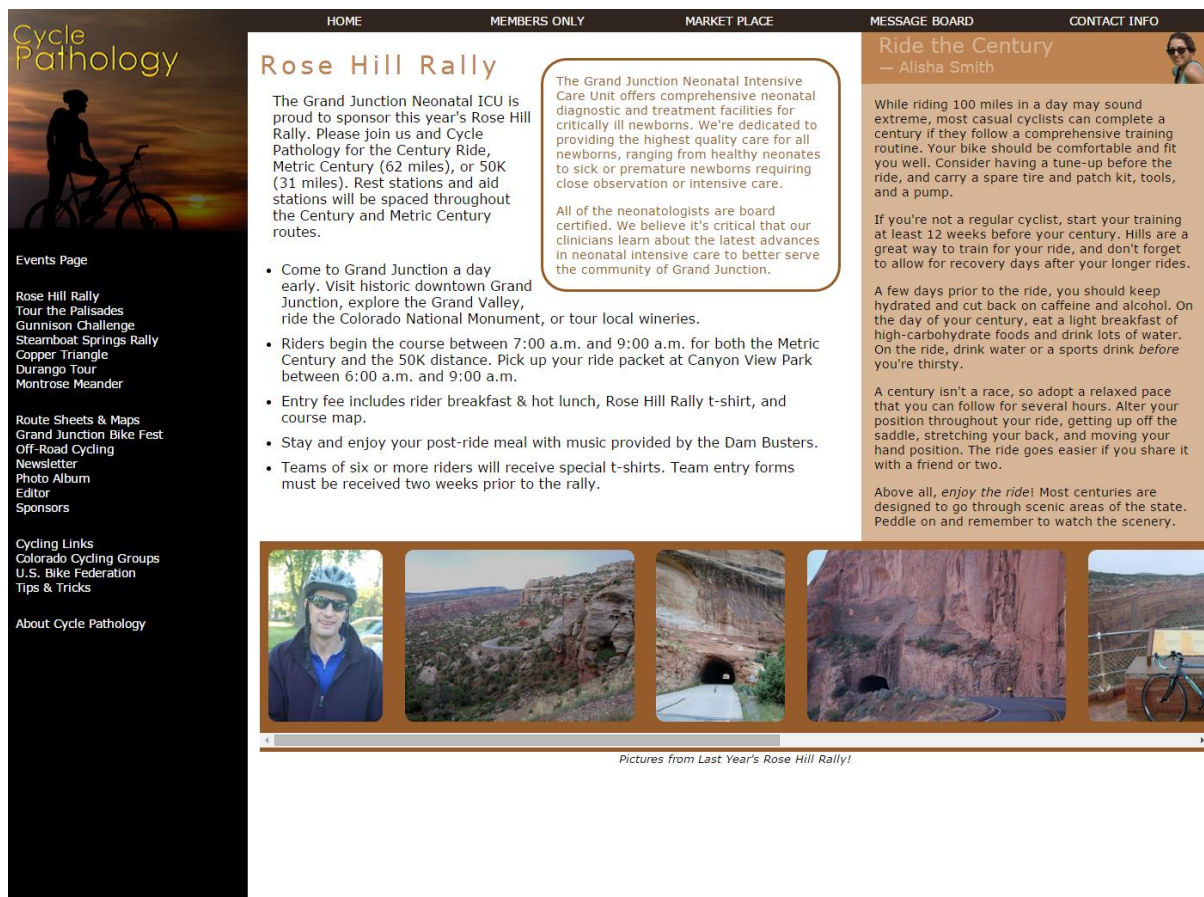


Figure 1. Cycle Pathology tour page

Method and Procedures

IMPORTANT NOTE/WARNING: For those of you who need the challenge of working by self-discovery under your own guidance, try to achieve the goal of creating the above web page without looking nor following these detailed instructions.

Note that it has been found that those who follow these instructions may end up feeling unchallenged and not getting an opportunity to think and learn to solve the problem. If you start feeling this way, simply stop looking at these instructions and try to reach the goal on your own by looking at the desired page only and figuring out what styles are required.

Complete the following:

1. Use your Eclipse IDE to add all the working files into a newly created "state web project". Enter your name and student ID in the comment section of each of the source files and save them as **rose.htm** and **race.css** (This is best done in the Eclipse

IDE by creating new files and then copying content from the corresponding given files.)

2. Go to the **rose.htm** file in Eclipse and take some time to review the content and structure of the file. Link the file to the **race.css** style sheet and then save your changes to the file.
3. Return to the **race.css** file in Eclipse. Add a style rule to display the `header`, `article`, `aside`, `figure`, `figcaption`, `hgroup`, `sections` and `nav` elements as *blocks*.
4. Create a style rule to set the default style for every element so that every element:
 - a) is displayed in a Verdana, Geneva, or sans-serif font;
 - b) has a font size of 100%; and
 - c) has a padding and margin space of 0 pixels.
5. Remove the underlining from every hypertext link within a `nav` element.
6. Create a style rule for the page body that:
 - a) positions the page using relative positioning; and
 - b) sets the page width to 98% of the width of the browser window in a range from 1000 pixels up to 1400 pixels.
7. Create a style rule for the header element that:
 - a) places the header at the coordinates (0, 0) using absolute positioning;
 - b) sets the width to 20% of the page body;
 - c) changes the background color to black; and
 - d) adds a 500-pixel padding space to the bottom of the element.
8. For inline images within a header element, set the width to 100% of the width of the header.
9. Set the width of the horizontal navigation list to 80% with a left margin of 20%. For list items within the horizontal navigation list, add styles to:
 - a) display each list item as a block floated on the left;
 - b) set the width of each list item to 20%;
 - c) set the background color to the value (49, 38, 31);
 - d) set the upper and lower padding space to 5 pixels;

- e) horizontally center the list item text; and f) transform the text to uppercase letters, setting the font size to 85%.
10. Set the color of hypertext links in the horizontal navigation list to white. If the user hovers the mouse pointer over the link, change the color to the value (215, 181, 151).
 11. For every list item in the vertical navigation list, set the font size to 85% and remove the list style marker. If the list item belongs to the *newgroup* class, add a top padding space of 25 pixels to add a bigger gap between that list item and the previous list item.
 12. For every hypertext link within the vertical navigation list, set the font color to white, set the display property to block, and indent the text 10 pixels. If the user hovers the mouse pointer over the hypertext link, change the background color to the value (51, 51, 51) and add a 2-pixel solid outline with the color value (215, 181, 151).
 13. Add the following styles to the main section of the page:
 - a) float the main section on the left margin once the left margin has been clear of previously floated objects;
 - b) set the size of the left margin to 21 %;
 - c) set the size of the top margin to 20 pixels; and
 - d) set the width of the main section to 49% of the page body.
 14. For h1 headings that are direct children of the main section, add styles to:
 - a) set the text color to the value (189, 131, 82);
 - b) set the font size to 180% with normal weight; and
 - c) set the letter spacing to 5 pixels.
 15. Set the margins of paragraphs within the main section to 15 pixels. For the unordered list within the main section:
 - a) display a disc marker;
 - b) set the margin around the entire unordered list to 25 pixels; and
 - c) set the bottom margin of each list item to 10 pixels.
 16. For the aside element, create a style rule to:

- a) add a 3-pixel solid border with the color value (149, 91, 42) and set the text color to the value (149, 91, 42);
- b) float the aside element on the right with a margin of 10 pixels;
- c) set the width to 50% of the width of the main section; and
- d) add a rounded border with a radius of 30 pixels. For paragraphs within the aside element, set the font size to 90% and the margin to 20 pixels.

17. For the article element, create a style rule to:

- a) float the element on the left with a width of 29% and a left margin of 1%; and
- b) set the background color to the . value (215, 181, 151).

18. For the header group within the article element, create a style rule to:

- a) display a background color with the value (189, 131, 82) with the background image *a/sha.png* displayed in the bottom-right corner with no tiling;
- b) set the text color to the value (215, 181, 151);
- c) set the bottom margin to 10 pixels;
- d) set the height to 60 pixels; and
- e) indent the text 20 pixels.

Set the size of h1 headings within the header group to 150% with normal weight.

Set the size of h2 headings to 110% with normal weight.

19. For paragraphs within the article element, add styles to:

- a) set the font size to 90%; and
- b) set the margin to 15 pixels.

20. For the figure box, create a style rule to:

- a) float the figure box on the left once the left margin is clear;
- b) add a 21 % left margin;
- c) set the width of the figure box to 79%; and
- d) set the background color to the value (149, 91, 42).

21. For the div element within the figure box, set the browser to display scroll bars automatically if the content overflows the assigned space, and use the white-space property to prevent the content from wrapping to a new line.
22. For inline images within the figure box:
 - a) set the margin to 10 pixels; and
 - b) add rounded corners with a radius of 10 pixels.
23. For the figure caption within the figure box, create a style rule to:
 - a) set the back-ground to white;
 - b) set the font size to 80%, displayed in italic and centered; and
 - c) set the top margin to 5 pixels.
24. Add descriptive comments to the style sheet to identify the style rules for the different sections of the Web page.
25. Save your changes to the file and then open **rose.htm** in your Web browser. Verify that the layout and design of the page resemble that shown in Figure 1. View your Web page under several different browser window widths to verify that the fluid lay-out correctly changes in response.
26. Submit your completed files to your instructor, as follows:
 - a. **Create an Eclipse exported project as a ZIP archive and submit through Stream.**