

HTML 214

HTML and CSS | Tutorial 3 Designing a Web Page with CSS

Apply your knowledge of CSS text and color styles to format a Web page for a cryptographic institution.

APPLY

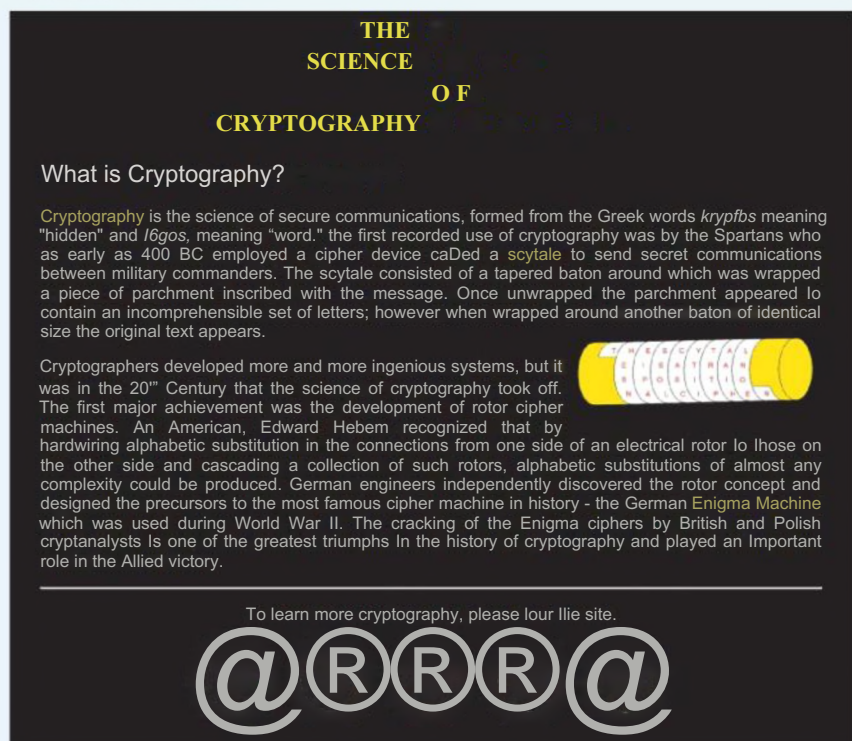
Case Problem 1

Data Files needed for this Case Problem: algo.htm, clayout.css, c.stylestxt.css, crypttxt.htm, enigma.htm, history.htm, locks.jpg, logo.gif, modernizr-1.5.js, public.htm, scytale.gif, single.htm

International Cryptographic Institute Sela Dawes is the media representative for the ICI, the International Cryptographic Institute. The ICI is an organization of cryptographers who study the science and mathematics of secret codes, encrypted messages, and code breaking. Part of the IQ's mission is to inform the public about cryptography and data security. Sela has asked you to work on a Web site containing information about cryptography for use by high school science and math teachers. She wants the design to be visually interesting in order to help draw students into the material. Figure 3-62 shows a preview of your design.

Figure 3-62

Cryptography home page



Complete the following:

1. In your text editor, open the **crypttxt.htm** and **c_stylestxt.css** files from the tutorial.03\case1 folder included with your Data Files. Enter *your name* and *the date* in the comment section of each file. Save the files as **crypt.htm** and **c_styles.css** respectively.
2. Go to the **crypt.htm** file in your text editor, and review the contents and structure of the document. Link the file to the **clayout.css** style sheet.

3. Locate the three strong elements in the two paragraphs and add the class attribute to each element with the class value set to **keyword**.
 4. Locate the *locks.jpg* inline image, and below the image create an image map with the name **locks**. Add the following hotspots to the image map:
 - a. A circular hotspot linked to the *history.htm* file, centered at the coordinates (52, 52) with a radius of 43 pixels; the alternate text should be **History**.
 - b. A circular hotspot with a radius of 43 pixels located at the coordinates (155, 52); link the hotspot to the *enigma.htm* file, and with the alternate text set to **Enigma**.
 - c. A circular hotspot with a radius of 43 pixels located at the coordinates (255, 52); link the hotspot to the *algo.htm* file and set the alternate text to **Algorithms**.
 - d. A circular hotspot with a radius of 43 pixels located at the coordinates (355, 52); link the hotspot to the *single.htm* file and set the alternate text to **Single Key**.
 - e. A circular hotspot with a radius of 43 pixels located at the coordinates (455, 52); link the hotspot to the *public.htm* file and set the alternate text to **Public Key**.
 5. Apply the locks image map to the *locks.jpg* inline image.
 6. Save your changes to the *crypt.htm* file.
 7. Go to the *c_styles.css* style sheet file in your text editor. Set the color of the page body background and text to **black** and **white**, respectively. Set the default font to a list consisting of **Century Gothic** followed by a generic **sans-serif** font.
 8. Add a style rule for **h1** headings nested within a header element to: a) display the text in **yellow**; b) use **Courier New**, **Courier**, or another **monospace** font; c) set the font size to 28 pixels with a **ker**ning of 20 pixels; and d) **center** the text.
 9. Add a style rule for **h2** headings nested within an article element to: a) set the font size to 24 pixels; b) display the text without **boldface**; and c) set the **ker**ning to 5 pixels.
 10. Align paragraph text within the article element using **full justification**.
 11. For strong elements belonging to the **keyword** class, create a style rule that displays the text in a **yellow**, non-**bold** font.
 12. Center the contents of paragraphs nested within the footer element.
- EXPLORE** 3 If you don't want image maps to appear with a colored border. To remove the border, create a style rule for inline images that contain the **usemap** attribute and set the border width to 0 pixels.
14. Document your work with style comments and then save your changes to the file.
 15. Return to the *crypt.htm* file in your text editor and link the file to the *c_styles.css* style sheet.
 16. Open *crypt.htm* in your Web browser and confirm that it matches the design shown in Figure 3-62.
 17. Submit your completed files to your instructor, in either printed or electronic form, as requested.

Apply your knowledge of CSS to design a Web page for a bike touring company.

APPLY

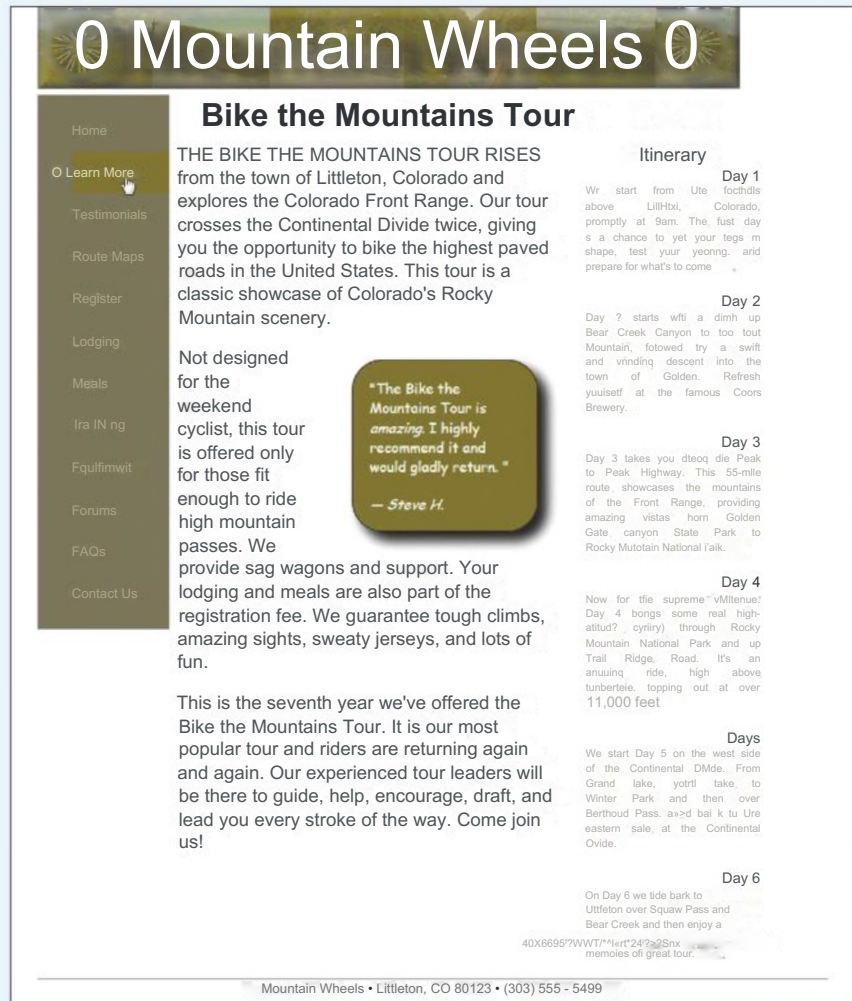
Case Problem 2

Data Files needed for this Case Problem: bmtourtxt.htm, modernizr-1.5.js, mwlayout.css, mw_stylestxt.css, mwlogo.png, wheelmarker.png

Mountain Wheels Adriana and Ivan Turchenko are the co-owners of Mountain Wheels, a bike shop and touring agency in Littleton, Colorado. One of their most popular tours is the Bike the Mountains Tour, a six-day excursion over some of the highest roads in Colorado. Adriana wants to update the company's Web site to provide more information about the Bike the Mountains Tour. She already has had a colleague design a three-column layout with a list of links in the first column and descriptive text in the second and third columns. She has asked for your help in completing the design by formatting the text and colors in the page. Figure 3-63 shows a preview of the Web page you'll create.


Figure 3-63

Bike the Mountains page




Complete the following:

1. Open the **bmtour.txt.htm** and **mw_style.txt.css** files from the tutorial.03\case2 folder. Enter *your name* and *the date* in the comment section of each file. Save the files as **bmtour.htm** and **mw_styles.css** in the same folder.
2. Return to the **bmtour.htm** file in your text editor. Link the file to the **mwlayout.css** style sheet. Take some time to review the contents and structure of the document.
3. You need to name different elements within the document using the id attribute. Add the following ids to the document: a) name the first header element **pageheader** and the second header element **articleheader**; and b) name the first section element **leftsection** and the second section element **rightsection**.
4. Save your changes to the file and then go to the **mw_styles.css** style sheet in your text editor.
5. Set the default font for the page body to a font list containing **Tahoma, Geneva, and sans-serif**.
6. For the **articleheader** id, apply a style rule that: a) sets the font size to 18 pixels and removes boldface; b) sets the kerning to 7 pixels; and c) centers the text.
7. Set the background color of the navigation list to the value (**12S, 120, 89**) and set the line height to 3em. Remove the bullet markers from the navigation list.
8. For hypertext links within the navigation list, create a style rule that: a) sets the font color to **white** for older browsers, and to **white** with 50% opacity for newer browsers; and b) removes the underlining from the link text.

 **EXPLORE 9** when a user hovers the mouse pointer over list items in the navigation list, change the background color to the value (**131,121,36**) and display the image file *wheelmarker.png* as the bullet image. When a user hovers the mouse pointer over a hypertext link in the navigation list, change the font color to **yellow** for older browsers, and to **white** with 100% opacity for newer browsers.

10. For paragraphs that are direct children of the **leftsection** id, set the font size to **22** pixels. Also, for the first paragraph that is also a direct child of the **leftsection** id, display the first line of the paragraph in uppercase.
11. For the **blockquote** element, create a style rule to set: a) the background color to (**131,121, 36**); b) the font color to **white**; c) the font size to **16** pixels; and d) the font family to **Comic Sans MS, Times**, and cursive.

 **EXPLORE 12.** For paragraphs within the **blockquote** element, create styles to insert a **double quotation mark** directly before and after the text of the paragraph.

13. For **h1** headings within the **rightsection** id, create a style rule to: a) set the font size to 22 pixels and the kerning to 3 pixels; b) remove the boldface from the text; and c) **center** the text. For **h2** headings within the **rightsection** id, create a style rule to: a) set the font size to 18 pixels; b) right-align the text; and c) remove the boldface from the text. Finally, for paragraphs within the **rightsection** id, create a style rule to: a) set the font color to **gray**; b) set the font size to 14 pixels; and c) **justify** the text.
14. For address elements within the page footer, create a style rule to: a) set the font size to **16** pixels; b) remove the italic style from the address; and c) **center** the text.
15. Add style comments to document your work and then save your changes to the file.
16. Return to the **bmtour.htm** file in your text editor and link that file to the **mw_styles.css** style sheet.
17. Open the **bmtour.htm** file in your Web browser and confirm that it matches the design and layout shown in Figure 3-63.
18. Submit your completed files to your instructor, in either printed or electronic form, as requested.