ISTE 140 Midterm Practical – 2211

Due Thursday 10/14 at midnight in the MyCourses Assignment.

Overview

This practical exam is a checkup on the skills you are learning in the class. To complete it requires demonstrations of two technical skill sets. The first is a series of UNIX tasks, the second, editing a web page to match an existing layout that passes HTML and CSS validation. There is no need to change any existing server (Solace) course folders' contents to complete this practical.

Exam Policies

- Allowable resources include the course textbook, personalized handwritten notes and W3Schools web site.
- All of the HTML and CSS that is created for this practical must be done "by hand" in a code editor.
- There will be no hints during this practical. Only questions related to exam requirements clarification will be answered.

IMPORTANT: After the practical examination has been completed (10/14 after midnight), DO NOT ATTEMPT TO REVISE ANY MATERIAL AT A LATER TIME. If the date/time stamp of the files associated with this exam indicate modifications after the completion of the exam, a ZERO will be given for the entire midterm practical.

Troubleshooting

Don't forget your troubleshooting skills.

- Set the title first so you can see that you are actually making changes to your page in HTML.
- Make sure your css file is actually impacting your HTML. You can do this by setting a very obvious style in your css like background_color.
- body {
  - background-color: #F5F5DC
  - }
- If your styles.css is not actually impacting your page, it is usually a problem with the path.
- Be sure to check the extension on your images, not all images are .jpg…
- Make a small number of changes, then upload and test.
- Remember the difference between block and span elements.
- If you are not sure of the syntax, check w3schools, and use their try it examples.

Part 1: Unix

Use the Terminal/putty/filezilla to connect to Solace via a secure shell: ssh abc1234@solace.ist.rit.edu

Unix Requirements

1. Create a directory named entertainment in the login directory (abc1234).
2. Set the entertainment directory permissions to read, write, and execute for the owner and read and execute for group & read for public i.e. rwxr-xr--

3. Create a child directory inside the entertainment directory named movies with the same permissions as entertainment.
4. Create a file in the directory movies called favorites.txt. Using Nano, Pico, Vi, or an editor to list your three favorite movies to watch.
5. Set the permissions for favorites.txt so users and groups have read permission only and public has no permissions.

Part 2: Basic Web Page
- All styles created must be in an external style sheet named **styles.css**.
- If CSS fails to display properly, it usually means a bad path, missing a colon, semi-colon, or curly-brace somewhere. It could also mean a spelling error or the CSS file hasn't been linked to the HTML file.
- The file, finished_site.png, is what the final result should approximate.

Initial steps:
- Download to the desktop, the midterm2211_practical_start.zip file and extract the contents:
- index.html, styles.css, castle_geyser.jpg, devils_tower.jpg, seedskadee.jpg, tetons.jpg, state_seal.png, and finished_site.png (an approximation of the final site).

Use FileZilla to establish an SFTP connection to Solace.

Web Page Requirements
1. Create a new directory in 140 named midterm2211 with 755 permissions,
2. Upload all starter files except finished_site.jpg and verify index.html works with a browser
3. Add code to index.html linking to styles.css, upload and test again.

Write the necessary HTML markup and CSS so that the page meets the following requirements shown in the remaining steps. Continue to upload versions of index.html and styles.css to solace to verify results. Choose fonts to create a concordant pairing and analogous color combinations, including neutral tones.

1. The page title is: Your name's Midterm Practical (for example: Jane Doe's Midterm Practical)
2. Give the body content a background color from your chosen color palette, a margin of 2em, and set your font-family.
3. Inside the <body> element, create a <header> container.

Header
4. Inside the <header>, insert a <figure class="right"> block to **float** its contents to the right with 1.5em padding on the left. Inside the figure block, insert the image **state_seal.png** with width and height of 128 px.
5. Place the text "Wyoming " in an <h1> block inside the header.
6. With appropriate CSS, center the <h1> block contents, and give the text a color and size.
7. Give the header element a background color, and a border-left property with a contrasting color to balance the weight of the right floated image. Provide margin and padding to control alignments and spacing.

Main
8. After the header, create a <main> element to enclose the remaining content.

9. Use <h2> blocks for the paragraph headers: The State, The Land, Original Inhabitants, and Economy. Use CSS to provide a text size and color, and margins to create comfortable spacing.
10. Create a definition to control the paragraphs <p> font-size, weight and line-height. Use margins to control spacing and alignment.
11. Find the text: . . . Cheyenne is the state capital . . .
12. and enclose only those words in a <span> container. Use a CSS rule that gives these words a greenyellow (#ADFF2F) background color.
13. Just after The State heading, insert image **seedskadee.jpg** using appropriate markup. Set the attributes of width to 300 px and height to 150 px. If, for some reason, the image does not load, use "seedskadee" as alt attribute.
14. Use a class="left" for this image and the CSS to float it to the left with 1.5em padding on the right.
15. Just after The Land heading, insert two <figure class= "right"> blocks to float the inserted images **castle_geyser.jpg** and **devils_tower.jpg** respectively, each with width of 300 px, height of 200px, and image name for the alt attribute.
16. Just before Original Inhabitants heading, insert a <figure class="center"> block
17. Inside this figure, insert the image **tetons.jpg**, width of 100% and height of 198 px.
18. Below the tetons image but inside the figure tag, add a <figcaption> block with text Tetons Panorama View. (https://www.w3schools.com/tags/tag_figcaption.asp).
19. Center the figcaption block under the image, color the text and display at font-size 120%. Adjust the margin to control spacing.

Footer
20. Add a <footer> block to display at the bottom of the page
21. Insert <p class="copyright"> block inside the footer showing a copyright symbol, date and your name.
22. Style the copyright class to color the text, display at 85% of the normal font-size, and aligned to the right.

Validation
23. Error free HTML validation: https://validator.w3.org
24. Error free CSS validation: https://jigsaw.w3.org/css-validator/

25. Do a final upload of index.html, styles.css and images to Solace. Double check permissions again (755 for folders, 644 for files).

Submission
26. Post a compressed (.zip) copy of your files and a link to your project to MyCourses