ISTE 645 Midterm Practical - 2211

Name: _____

Overview

The practical requires the development of a web page with images that passes HTML and CSS validation.

Exam Policies

- Print name at the top of this page.

- **Allowable resources** include the course textbook, personalized handwritten notes and W3Schools web site. Textbook sharing will not be allowed.

- Viewing the contents of any web pages, including Google or any HTML or UNIX tutorial sites is **strictly prohibited**. The only exception is the use of W3Schools.

- All of the HTML that is created for this practical must be done "by hand" in one of the text editors used in class. That means no Dreamweaver or any other WYSIWYG tool.

- There will be no hints during this practical. Only questions related to clarification of the exam's requirements will be answered.

- When finished, hand this exam to the instructor and leave quietly.

- Failure to hand in this exam is an automatic zero regardless of work accomplished.

IMPORTANT

Once the practical examination has been completed, <u>DO NOT ATTEMPT</u> <u>TO REVISE ANY</u> <u>MATERIAL AT A LATER TIME</u>. 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 exam and practical, and an "F" will be given for the course

Build a 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 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. The image should be used as a reference, but use the steps below to actually construct the site.

Initial steps:

- Download to the desktop, the midterm2211_practical_start.zip file and extract the contents:
  - index.html
  - styles.css
  - jazzfest.png
  - map.gif
  - historic.jpg
  - city_seal.png
  - finished site.png (an approximation of the final site)

- Use FileZilla to establish an SFTP connection to Solace

Student Checkbox*	After completing each step you can check the left box. the right box will be used for grading	Professor Checkbox
☐	1. Create a new directory on Solace in your 645 folder named midterm2211 with 755 permissions.	☐
☐	2. Upload all starter files except finished site.png 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 as needed to verify the results.

☐ 4. Set the page title (what appears in the tab) to: Your name's Midterm Practical (for example: Jane Doe's Midterm Practical) ☐

☐ 5. Use CSS to apply a background a color of #e4fcf8 and a margin of 2em to the body element. ☐

☐ 6. Set the font-family of the body to a san-serif style font (use your judgement). be sure to specify at least two alternate fonts in case the person viewing your website is missing one of the fonts ☐

☐ 7. Create a <header> element inside the <body> element, ☐

☐ 8. Use the appropriate CSS selectors and properties to give the <header> element a background color of #6ac4d4 and a padding of 10px. ☐

☐ 9. Use the appropriate CSS selectors and properties to give the <header> element a border on the bottom side ONLY with the color of #23408f - try your best to emulate the border as you see it in finished site.png. ☐

☐ 10. Inside the <header>, insert a <figure class="right"> container block. ☐

☐ 11. In your CSS create the appropriate CSS selector for the newly created class "right" (the class is called right, and we will be reusing it later on) and float the content to the right using the appropriate declarations. ☐

☐ 12. Additionally, let's add more CSS to this newly created "right" selector. Ensure that there is a 1.5em padding on the LEFT side ONLY. ☐

☐ 13. Now back to our html; inside the figure block, insert the image city_seal.png using the appropriate html and a relative path to the image. ☐

☐ 14. Give the city_seal image the alternate text "City of Rochester Seal" using the appropriate html. This is important for screen readers, or in case the image fails to load. ☐

15. Give the city_seal.png image a width of 52 px and a height of 53 px using html attributes.

16. Below the figure element, but still inside the header, Place the text "Rochester NY" in an <h1> element.

17. Create the appropriate CSS for your h1 that does the following: center the text (Rochester NY) and give the text a color of white. Also give it a margin of 10px (on all sides).

18. After the header element (outside / below it) insert the image rochesterskyline.jpg with an alt attribute of "Rochester Skyline", and a class attribute of pano-skyline

19. Create a new style rule in your CSS for the class pano-skyline which you added in the previous step, and set the width of the image to stretch the entire width of the browser (hint a relative unit). This may cause some distortion on really wide monitors if it is stretched too much, but don't worry about that.

20. After the panorama image, create a <main> element to enclose the remaining content.

21. Create the appropriate CSS for the <main> element that controls the length (or width) of our main content. Prevent the content in <main> from getting larger than 800px, while still allowing it to shrink to less than that size (hint this can be done with one property, and without media queries).

22. Place <h2> blocks around the following text to create the following paragraph headers: The City, The State, A Great Place to Live, and a Great Place to Work.

23. Style the newly created h2's with CSS to provide a text size and color, and margins to create comfortable spacing. Use your knowledge of design principles to achieve this, you do not need to copy the finished_site.ong exactly.

24. Add another rule to the <h2> we have been working on that stops both the left and right float properties from being applied. We will be floating images shortly, so even if this doesn't have an immediate impact I will be looking for this declaration while grading.

25. Create a definition to control the main paragraphs (the <p>): font-size, weight and line-height. Use margins to control spacing and alignment.

26. Find the text: . . . The city was one of the United States' first boomtowns . . . and enclose only those words in a <span> container. Use a CSS rule that gives these words a greenyellow (#ADFF2F) background color.

27. Just after The City heading, insert image historic.jpg using appropriate markup. Set the attributes of width to 250 px and height to 166 px. If, for some reason, the image does not load, use "historic photo of rochester" as alt attribute.

28. Use a class="left" for this image and create new CSS rules that will float it to the left with 1.5em padding on the right. (similar to what we did above with the class="right" rules).

29. Just after The State heading, insert two <figure class= "right"> blocks to float the inserted images map.gif and jazzfest.jpg respectively, each with width of 300 px, height of 200px, and image name for the alt attribute.

30. Add a <footer> block to display at the bottom of the page

31. Insert <p class="copyright"> block inside the footer showing a copyright symbol, date and your name.

32. Error free HTML validation: https://validator.w3.org

33. Error free CSS validation: https://jigsaw.w3.org/css-validator/

Please hand in your copy of the instructions with your name at the top to the Professor at the end of class. As noted above, failure to do so will result in a zero.