**Assignment #4 RCC Fall 2017 CIS-72A HTML**

**HTML Tables**

**Due Saturday September 30 at 11:59**

**Late submissions are accepted with points deducted as indicated on syllabus**

**100 Points**

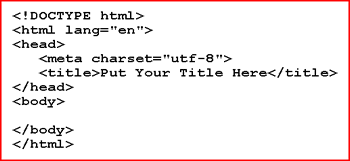
Before you begin this assignment, you should download the assignment’s starter file from Blackboard. This is the file you will be working on and eventually submitting into Blackboard. It is a Microsoft Word 2013 file, so you must have access to Word in order to edit that assignment file.

**Part 1: Creating and Styling a basic Data Table for Groceries**

For this part you will watch an introductory tables video and create the same Web page and style sheet as done in the video. Follow the directions below carefully so you understand what you need to do to maximize your score.

1. Watch the video “HTML Tables Tutorial” and perform the identical steps yourself. The video is available on YouTube and lasts for 9 minutes, 37 seconds. There are two files you will have to build from scratch, one an HTML 5 web page and the other a CSS style sheet. The links to this video is given below.  
     
   Link to the video: <http://www.youtube.com/watch?v=BczLWImAmBk>
2. Before you begin working with the video, do the following initial steps to ready yourself for the video:

a) Create a new folder named “a4p1”. You will work inside that folder for this part of the assignment. Next, create an HTML file from scratch and save it as “index.html” inside that a4p1 folder.

b) Inside this HTML file, begin by creating the usual recommended HTML 5 structure as shown in the figure, as we have done in previous assignments. (If you are using Brackets and the HTML Skeleton extension, this code is just a click away.)

c) For the “title”, write in your own full name and the word “Tables Video”. When that is all complete, save “index.html” and leave it open in your editor.

d) Next create a new file in your editor and save it as “main.css” in that same “a4p1” folder where your “index.html” page already exists. Leave this “main.css” file open in your editor too.

e) Then, within the “head” section of this html document, you need to write a “link” tag to connect “index.html” to its style sheet “main.css” (again, the HTML skeleton extension can help you to create this “external” style sheet link tag:  
  
**<link rel="stylesheet" href="main.css">**

f) Save your work but leave it open in the editor. Note that at this point you have a good starting point for the video. Your HTML file is a little different from the one in the video, but the differences are only in the top portion of the HTML file and don’t affect anything in the video. The rest of the HTML changes you will be making (by following the steps in the video) will be within the “body” section of the page and should be done exactly as shown in the video. Toward the end of the video, you will also be making changes to your “main.css” style sheet file as well.

1. Now watch and do what the video does. When you have completed all the steps shown in the video and have successfully created the same styles in your “main.css” file, you will be ready to return to the next step below for further instructions to complete this part of the assignment.
2. **After completing the video work**, you need to insert one more grocery item into the groceries table. Insert this row below the “Whole Wheat Bread” row and above the “Carrots” row:

|  |  |  |  |
| --- | --- | --- | --- |
| **Peanut Butter** | **$2.69** | **1** | **B4** |

1. Next, insert your own full name into the beginning of the “h1” heading above the table. As a result, the heading should read “Joe Student’s Groceries” where you put your own actual name in place of “Joe Student”.
2. Make sure that your table styles are working and look much like they do in the video. Note how the alternating table row background colors adjusted nicely to the addition of a new row of data. That is because of the flexibility built into the “odd” and “even” rows that were the basis of those styles. Even though your styles may appear to be working fine (and especially if they are not), you should validate those “main.css” styles using the [W3C's CSS Validation Service](http://jigsaw.w3.org/css-validator/#validate_by_input). If you receive validation errors, you should investigate them, fix them, and retest them before moving on. Once your code is well tested, you are ready to place the relevant items into your Word file as indicated in the steps below:
3. **Screenshot Needed**: When your “Groceries table” page is complete, capture a screen shot of your page displaying in the browser so that the entire page is showing up. Use 2 screenshots if you cannot capture it all with one. I need to see it all to give you full credit. To capture a screen shot in windows, you can use the “Snipping Tool” from the “Accessories Group” or the “PrintScreen” key. **Paste your screenshot(s) into your Word document in the indicated area.**
4. **HTML Code Needed**: With your completed groceries table page (index.html) open in your editor, copy **and paste all of the HTML code from your editor into the “part 1 HTML code” area of the Word document you will be submitting for this assignment.** Adjust the font of this code to “Courier New” or another monospace font and bold it if that helps to make it more readable.
5. **CSS Code Needed**: With your style sheet file “**main.css**” open in your editor, **copy and paste all of the CSS code from your main.css file in the editor into the “part 1 CSS code” area of the Word document you will be submitting for this assignment**. Make sure to get it all. Adjust the font of this code to “Courier New” or another monospace font and bold it if that helps to make it more readable. Do not include any HTML at all – this is just a CSS code check.

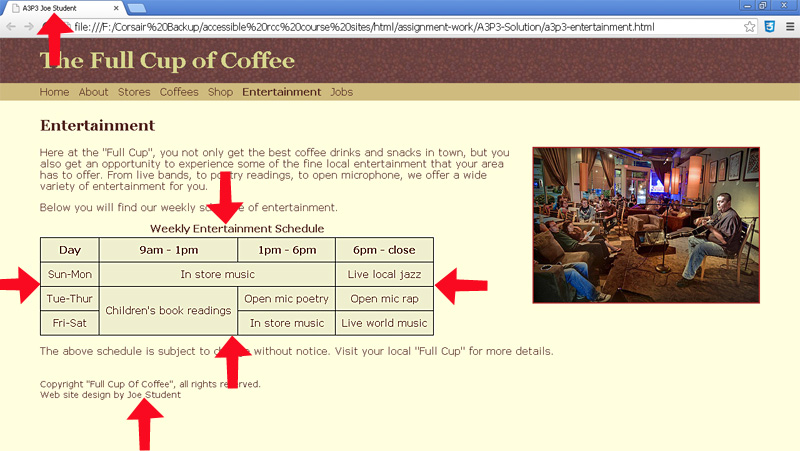
**Part 2: Chapter 4 -- Creating Tables in a Web Site**

Read and follow along the steps and instructions given within chapter 4 (pages HTML 155 - 208). In completing this chapter, you will work with the "Oceanside Hotel and Sports Club" Web site that makes use of tables and an external style sheet. Work your way through this tutorial with following notes in mind.

1. Do not follow any of the instructions within the chapter that ask you to print your pages. You will not be printing anything.
2. You will need to have the textbook files downloaded onto a local drive (such as your flash drive) to be able to complete this part of the assignment. You can obtain them from the link below as needed:  
     
   <http://www.faculty.rcc.edu/mcleod/html/handouts/ch4-files.zip>
3. After you download the given zip file, you should extract the folder and files within it and use them as you work through the tutorial in your textbook.
4. The actions you need to take (from the book) will be indicated by the red circled and numbered steps.
5. When you reach step 1 on page 170, make the following change. When entering the HTML code for line 6 (the "title" tag appearing at the bottom of page 169), insert your own first and last name into the title text right before the word "Oceanside" so that the title will display as follows: if your name is Joe Smith, the title would read "Joe Smith's Oceanside Hotel and Sports Club" That way your name will appear in your eventual completed "oceanside.html" page.
6. When you reach step 1 on page 183, make the following change. When entering the CSS code for the external style sheet, enter the assignment and part numbers and your own full name (including the slashes and asterisks) as shown below at the very top of the style sheet file:  
      
   **/\* Assignment 4 Part 2 Joe Student \*/**  
     
   This is known as a CSS comment and will be ignored by the browser but allow you to include information that is helpful to humans that view your CSS file and is used here for grading purposes. Comments in CSS always begin with /\* and always end with \*/.
7. When you reach step 1 on page 204, and are entering the "caption" for the table, instead of entering the caption "Additional menu items available upon request", enter this caption shown below, where you use your own actual name instead of "Joe Student":  
     
   **Menu created by our head chef, Joe Student.**
8. When you complete the main chapter on page 208, continue on to do the "Special Feature 1 -- Attracting Visitors to your Web Site" on pages 219 - 225. By doing so you will be making a few last modifications to your oceanside.html file that you saved in the chapter. You will be adding "meta" tags to make the page more useful for search engines.
9. When you have completed the main chapter and the Special Feature discussed above, you are ready to make your screenshot(s) and code copying to your assignment’s Word file for later submitting into Blackboard.
10. **Screenshot needed:** When your “Oceanside.html” is complete and displaying in the browser, capture a screenshot of it so that the entire page is showing up. Use 2 screenshots if you cannot capture it all with one. I need to see it all to give you full credit. To capture a screen shot in windows, you can use the “Snipping Tool” from the “Accessories Group” or the “PrintScreen” key. **Paste your screenshot(s) into your Word document in the indicated area.** After pasting, you can use Word’s features to crop or resize the screenshot as needed to make sure it is easy to see for grading purposes.
11. **Code needed:** With your completed “oceanside.html” page open in your editor, **copy and paste its HTML code into the “part 2 code” area of the Word file you will be submitting later for this assignment.**  After pasting, with your code selected, use Word’s features to change the font of this code to “Courier New” or another monospace font and bold it if that helps to make it more readable. (You should also fix any strange tabbing that might cause some of your code lines to be aligned to the right hand side of the page in Word. Deleting the tab is usually all that is needed.)

**Part 3: Entertainment Table for the Coffee House Site**

1. For this part of the assignment, you are given a partially completed Web page and are asked to write the HTML code to create a table to complete the page. Your starting point is an entertainment page for a coffee house Web site and the completed page you are trying to achieve is shown in the screen shot below:



1. Note that in the above screen shot, the arrows indicate something you need to create or change from the starter files in order to get credit for that feature. In this case, the table (surrounded by 4 red arrows) is worth most all of the points and placing your full name in the title and footer areas instead of "Joe Student" is worth another few points (one arrow points to each of these at the top and bottom of the screen shot.) Follow the steps below to complete the required work.
2. First of all, you need to download the files for this coffee house web site. You can do so from the link provided below.  
     
   <http://www.faculty.rcc.edu/mcleod/html/handouts/a4p3.zip>  
     
   Once it downloads, extract the folder and files it contains and familiarize yourself with them. There should be a partially completed web page file, a completed style sheet file, and 2 image files. Double check that this is the case before proceeding to the next step.
3. Open the "a4p3-start.html" and "a4p3.css" files in your editor and familiarize yourself with their code. In particular, notice the area in the html file where you need to add the code for the table. This will be the primary focus of your work.
4. As you work through the steps below, test your page in the browser to confirm the proper results, validate your code to avoid any errors, and take care to format your code in a manner that is easy to read (indent and space your code appropriately). This is an HTML 5 document, so your code must conform to HTML 5 rules.
5. Locate the "title" tag and replace "Joe Student" with your own full name.
6. Add appropriate keywords and description "meta" tags into this page's "head" section (as you did toward the end of part 2 above.) Use specific description and keywords that match the content of this coffee site as if you were really trying to improve search rankings and attract users to this web site.
7. Save your page as "a4p3.html" in the same a4p3 folder. Continue your work in this new copy of the file. This way you will leave the original starter file "a4p3-start.html" intact while using the new "a4p3.html" file as your final version of the page.
8. Locate the "footer" tag and replace "Joe Student" with your own full name.
9. Locate the blank area under the "comment" that indicates where the table needs to be placed.
10. Create the open and close "table" tags needed to surround the table's data. To trigger the given CSS formatting already coded into the style sheet, give the table an "id" of "datatable" (this will help you achieve the formatting shown in the screen shot.)
11. Create a "caption" using the words "Weekly Entertainment Schedule", which should then appear above the first row of the table (as shown in the screen shot.). If you are unsure of how to use "caption" tags, review some sample table code. Note that the CSS is already in place to format the caption as needed.
12. Next, create the first row of the table, which should contain headings ("th" tags) for "Day", "9am - 1pm", "1pm - 6pm", and "6pm - close", as shown in the screen shot.
13. Create the appropriate table related code for the last 3 rows of the table. Note: to get the "In store music" and "Children's book readings" entries to extend through multiple columns or rows as shown in the screen shot, you will need to make appropriate use of "colspan" or "rowspan" attributes.
14. Double check that your code is complete, valid, easy to read, and producing the desired result in the browser. (You will lose points for anything that is not easy to read valid HTML 5 code and for anything that is not looking correct in the browser.)
15. **Screenshot Needed**: When your “Entertainment table” page is complete, capture a screen shot of your page displaying in the browser so that the entire page is showing up. Use 2 screenshots if you cannot capture it all with one. I need to see it all to give you full credit. To capture a screen shot in windows, you can use the “Snipping Tool” from the “Accessories Group” or the “PrintScreen” key. **Paste your screenshot(s) into your Word document in the indicated area.** After pasting, you can use Word’s features to crop or resize the screenshot as needed to make sure it is easy to see for grading purposes.
16. **HTML Code Needed**: With your completed entertainment table page (html file) open in your editor, copy **and paste all of the HTML code from your editor into the “part 3 HTML code” area of the Word document you will be submitting for this assignment.**  After pasting, with your code selected, use Word’s features to change the font of this code to “Courier New” or another monospace font and bold it if that helps to make it more readable. (You should also fix any strange tabbing that might cause some of your code lines to be aligned to the right hand side of the page in Word. Deleting the tab is usually all that is needed.)