

COMP 1950

Assignment: 06 – Create a Web Page with CSS Grid

Course Value: 3%

Due Date: Before the start of next week's class (Day 08)

Assignment Description:

Style an HTML page to match the supplied mock-ups using CSS Grid to layout the page.

Instructions:

1. Open the folder "a-06-start" located in the "day-07" folder
2. Open the "a-06-start.html" file
3. A stylesheet has already been attached to the html file. Open the attached CSS file and add the appropriate styles to make the look of the web page match the supplied mock-ups for the desktop view, the tablet view and the phone view. Use native CSS Grid to do most of the layout code, do not use floats.
4. The CSS and JavaScript code for the responsive navigation system has already been completed
5. All the content sections can use the same grid layout. Try the following grid layout for the sections:
 - a. `grid-template-columns: 1fr repeat(2, minmax(auto, 540px)) 1fr;`
 - b. To give the sections different views (a centred single column, full-bleed column, two evenly split columns...etc...)...use the `grid-column` property on the grid item elements to span them across different parts of the grid
6. For Grid Monopoly do not change the HTML markup, use grid to change the placement of the numbered squares. The squares must go in the same order as is shown in the mock-up
7. For Grid Monopoly to make laying out the squares easier, try temporarily setting a property of `"display: none"` on squares 17, 18, 19...this will make it easier to layout the first 16 squares. Position squares 17, 18 and 19 at the end.
8. For Grid Monopoly try the following grid code on the game board:
 - a. `grid-template-columns: repeat(5, 10vw);`
 - b. `grid-template-rows: repeat(5, 10vw);`
9. To center the Grid Monopoly game board try using `"justify-content: center;"` and `"align-content: center;"` on the game board element
10. For the font-size for the numbers on the Grid Monopoly game board try the following code:
 - a. `font-size: calc(2vw + 8px);`
11. To center the monopoly box numbers, try `"display: flex;"`, `"justify-content: center"` and `"align-items: center"` on the `".box"` element
12. For the image gallery do the following:
 - a. Layout the gallery with CSS Grid
 - b. Each element should maintain a 3:2 aspect ratio (for every 3 units wide the item should be 2 units tall). Use the aspect ratio code we covered in class or refer to this article on how to create aspect ratio boxes:
 - i. <https://css-tricks.com/aspect-ratio-boxes/>

13. The gallery images should cover their respective entire gallery item container but should not warp or distort. Use the following CSS on the images to help with this:
 - a. display: block;
 - b. width: 100%;
 - c. height: 100%;
 - d. object-fit: cover;
14. View your completed web site in a browser
15. When the above steps are complete do the following:
 - a. Upload the completed file(s) to your personal COMP1950 web space via FTP
 - i. Remember individual assignments and projects should be stored in individual folders. For example, for "Assignment 06" I might make a folder called "a06". I would then upload that folder to my web space
 - b. Browse to your completed assignment by navigating to your completed assignment in a web browser
 - i. The address should be similar to:
 1. comp1950.michaelwhyte.ca/mwhyte13/a06/a-06-start.html
 2. replace "mwhyte13" with the first part of your my.bcit.ca email address
 - c. Once you have tested your assignment in a browser, make note of the URL and copy it.
 - d. Go to D2L and find the dropbox for Assignment 06.
 - i. Create a text file or a Word document or a PDF that contains a link to your completed assignment
 - ii. Upload the text file completed in the above step to the dropbox
 - iii. In the Comments section include a link to your assignment

Marking Criteria:

This project will be marked out of 3 and will be marked based on the following criteria:

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| 1) All Technical Specifications Met | 3 marks |
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Total: 3 marks