

Lab 3: Web Programming - CSci130

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Class Lab (9/14/2018)

Keep the different documents that you are creating during the lab sessions as they can be asked later as a part of the “attendance and participation” mark.

Goals: To create documents with HTML5 and CSS3 using the selectors.

Exercise 1. More CSS with events and links

In this exercise, you have to create a web document (HTML page) with the following constraints:

It has a header, footer, and an article in the body. The article has five sections. The last section has a table with the different day of the week in the column, and different hours in the rows (8-10,10-12,12-2,2-4,4-6). The first word of the first section will have a font of 12pt while other words have a font of 10pt. The last section will be in italic.

When you move the mouse over the rows, the color will change. When your mouse is on a particular cell (td) the color will change and will be different.

The first letter of each day will be in uppercase while the rest will be in lowercase.

Links will be red when new and not visited, once the link has been visited it will be blue, if the link gets focus (like with the tab key) it will become yellow, then if the visitor hovers the link with a pointer it will be green, and finally, if the visitor activates the link it will be blue.

Exercise 2. More CSS for the menu

By considering the exercise that had 5 pages, with 5 sections,... that you have used and enriched with CSS. Update the pages so the sections are presented with:

- The links are in a horizontal menu on the top.
- Section 1 in the middle of the page; Section 2 and 3 are below section 1, on the left; Section 4 and 5 are below section 2, on the right.

Exercise 3: Animation with CSS3.

By using moving different elements at different speed, you have to create the illusion of motion and a 3D effect by moving several objects at different speed.

In a webpage, you have to create an animation with:

- The sky (blue background)
- Different clouds that move at different speeds (boxes with round edges)
- Image of a landscape under the sky and the clouds (a green box).
- A gray mountain represented as a triangle:
 - Start with a box (div) with borders
 - Set the size of the borders to 50.
 - Set the height and width to 0.
 - Update the parameters to have only a triangle.
- One or more trees (combination of boxes with different colors and round edges)
- When you move your mouse on a cloud, the cloud will expand and you will have a link becoming visible.

Exercise 4: Group work (if you have finished the previous parts)

Create a webpage that represents (you have the choice):

- The ocean with fish swimming and moving algae.
- A landscape with flying birds and clouds moving on in the sky, and fog in the background of the scene.
- A scene with a runner walking in the foreground – the runner has a static position (you can use a gif file) – and the background will use the parallax scrolling principle.
- A bottle with bubbles moving up, if you hover the mouse on the bottle, the drink and the bubbles will change color.