

## CS 3744 Spring 2020 -- Assignment 2 - CSS Styling ( 150 points)

### Description

In this assignment, you will be given an HTML file with some content about the Echo Lab in it. The provided page has all the relevant information and is a self-contained working web page... except that it lacks style! This can discourage people from finding information easily and can prevent them from wanting to work with us. Your mission is to improve the layout so that people can easily navigate the page and find the information they are looking for.

The task is to write a CSS file to style this content (i.e., determine how this content will look on the page). This will require you to understand what widgets/containers are on the page, and how to correctly reference and style them.

The HTML file requires a CSS file called “**style.css**.” With the provided style.css file, the HTML page looks like the image on the left. Upon successful completion of the assignment, the HTML page should eventually look exactly like the image on the right (you can find this image in the assignment\_1 folder).

**Photo / Video Attached** -The photo and video attached are the main requirements. The following requirements are only for values that are difficult to get from the video. You will not get full credit if your submission only meets the textual requirements specified below. You will get full credit if the appearance and the behavior (scroll/resize) match with the video and the pictures below. (e.g. you cannot say “That was NOT in the spec.” for something that we find in your submission for being different from the video and pictures.)

Photos (These were captured in MacBook)

- <https://drive.google.com/open?id=1Y8ZsklfwHWLtOaDevcXxRLDnApjDiL6u>
- [https://drive.google.com/open?id=1Y8\\_aps0oz\\_bU1KO\\_7YDZVrLBey1DS46E](https://drive.google.com/open?id=1Y8_aps0oz_bU1KO_7YDZVrLBey1DS46E)

Demonstration Video:

- (Mac)  
[https://drive.google.com/file/d/1Y7bVpUtyspeVjS1-dCggue\\_dxAJiuXDP/view?usp=sharing](https://drive.google.com/file/d/1Y7bVpUtyspeVjS1-dCggue_dxAJiuXDP/view?usp=sharing)
- (Windows)  
[https://drive.google.com/file/d/1Lep4\\_-QxS2ty5pXW93\\_ZNP5ebC0HkO1Q/view?usp=sharing](https://drive.google.com/file/d/1Lep4_-QxS2ty5pXW93_ZNP5ebC0HkO1Q/view?usp=sharing)

### Notes

- You are going to submit ONLY one CSS file so do NOT revise the HTML file. We are going to grade with the HTML file of ours with the CSS file that you submit.
- Avoid using ID selector unless it is inevitable.
- We are going to grade in the most recent Chrome.
- Watch the video and learn how it reacts when a user resizes and scrolls.



## Welcome to Echolab homepage.

[Welcome](#) [News](#) [Members](#) [Projects](#)

We are recruiting students/researchers!

### Welcome!

Echolab is always interested in hearing from undergraduates and graduate students with strong technical skills who are interested in creating novel interactive systems that can enhance our ways to empathize with other people!

To pursue Ph.D. in Echolab, please apply to Computer Science at Virginia Tech. See the following link for more detail.

To apply for undergraduate research, please fill out this online survey: [CS@VT](#)

[Contact Us for More Info](#)

### News

Updated 01/31/2020

- 12/15/2019: Donghan Hu's thesis work got accepted as a full paper in CHI 2020. Echolab is going to Hawaii!
- 01/15/2020: Please welcome a new member of the lab, Carlos Bautista!
- 01/30/2020: Every Thursday evening, Echolab will hold a co-hacking time at TLOS I/O Studio (1140 Toergerson).

### Core Members

[Become a core member!](#)

#### • Director



Sang Won Lee

#### • Graduate Students (in alphabetical order)



Amber Aftab



Carlos Bautista



Donghan Hu



Viral Pasad



Shuyi Sun, Ph.D.



Md Tahsin Tausif

### Ongoing Projects

[See More Projects](#)

#### Codeon

Programming is a challenging, time-consuming task that requires people recall broad sets of information. While modern development heavily relies on web resources for assistance, it leaves the end user to search for information sources, recognize an answer, and integrate it. This research direction aims to create mixed-initiative intelligent assistants to help programmers create software faster and more efficiently than ever before.

#### Apparition

Prototyping systems allows designers and developers to quickly get their ideas in front of real users, get feedback, and iterate on their designs. However, this is often itself a time-consuming process. This research direction aims to develop systems that let designers and developers prototype functional systems as quickly as they can describe them, providing unparalleled ability to rapidly iterate on ideas, even in live trials.

#### Conversational Agents

Intelligent agents that converse with users in real-world spaces allow continuous, seamless task support beyond screen-based interactions, making these assistants easier to interact with and more available, reducing the cognitive overhead required to get support. This research direction explores situated interaction and conversation with intelligent assistants, intelligent sensing technology, and augmented collaboration between people.

#### Liveness in Writing

Live Writing is a research project that suggests an expressive form of written communication that transforms writing into a real-time experience. While written communication is indeed an essential way of communicating in various domains, from creative writing to social media, to writing program code. In this project, we investigate the benefits of presenting the live process of writing by means of real-time playback of a writing session to the readers in collaborative setup for context recovery and text comprehension. Live Writing draws upon ideas from the tradition of live coding in which the process of programming is revealed to the audience in real-time. For more info, visit [here](#)

Thank you for reading! If you do the homework correctly, you should not see this message! (meaning you don't have to style this particular div)

## Additional requirements

### 1. Main Container (5pts)

- a. The width should be 60% of its container (body), not exceeding 1600 pixels and not less than 950 pixels.
- b. The main container should be always positioned in the horizontal center of the web browser.

### 2. Banner (15pts)

- a. This banner is **anchored** to the top right corner of the browser window. It stays the same when a user scrolls vertically or horizontally.
- b. The banner is 10 pixels away from the corner (both vertically and horizontally. )
- c. Any children (inner content) of this banner should have 10 pixels of extra space from the border of this banner.
- d. Just in case you didn't realize, it has a border with solid-style black and orange background color.

### 3. Header (25pts)

- a. The header should be 20 pixels away from any siblings and the parent element.
- b. Any children of this container should be 20 pixels away from the edge of this header.
- c. The header should have a black bottom border of width 4 pixels.
- d. The height of the Echolab logo image is 100 pixels and the logo should stay on the left side of the following sibling elements.
- e. The header-title and the navigation bar should both be on the right side of the page and the text alignment should also be right.
- f. The font size in a clickable menu bar item is 1.2em.
- g. The menu bar item should be 15 pixels away from any siblings and the parent.
- h. The menu bar item must turn orange when the mouse cursor hovers, otherwise, it should be black.

### 4. Main Content (10pts)

- a. Any children of this container should be 20 pixels away from the edge of this container.
- b. The container should be 30 pixels away from any siblings and parent on the right, on the bottom, and on the left.

### 5. Section Container (10pts)

- a. Any children of this container should be 10 pixels away from the edge of this container.
- b. The container should be 10 pixels away from any siblings and the parent.
- c. The container should have a black border (3px).

- d. The container corners are rounded, the radius of the corner is 10 pixels.
- e. The text of the title in the section container should be a size of 24 pixels and bolded.
- f. The container has background color (#ffffee)

**6. Banner inside a section container. (15pts)**

- a. It is anchored to the top right corner of its parent.
- b. The banner is 5 pixels away from the the corner (both vertically and horizontally. )
- c. Any children of this container should be 10 pixels away from the edge of this banner.
- d. The width of the banner is 30% of its parent.
- e. The text should be aligned to the center of the banner.
- f. The color of the text inside the banner should be white.
- g. The background color should be a Chicago Maroon - one of the Virginia Tech colors.

**7. Members Container (25 pts)**

- a. The roles list items should have a text size of 20 pixels and should be bolded.
- b. The members and graduate members list items should not be bulleted or in any list format.
- c. The members and graduate members list items should have text aligned to the center of their element, and should float to the left side of the page.
- d. Each member container should occupy 25% of the parent container and one row should have exactly four members. Any children of the container should be 15px away from its edge.

**8. Project Container (15pts)**

- a. Any children of this container should be 10 pixels away from the left, right and the bottom edge of this container.
- b. The project container should be 20 pixels away from any nearby sibling and the parent.
- c. The corner of this container is rounded. The radius of the corner is 20 pixels.
- d. It should have black border (2px) and white background.
- e. The project sub-titles should have text that is 20 pixels in size, bolded and 10 pixels away from the parent container.

**9. Footer (10pts)**

- a. This footer is **anchored** to the left, the right and the bottom sides of the browser window.
- b. Any children of this container should be 20 pixels away from the edge of this banner.
- c. The text should be aligned to the right.
- d. The footer contains a orange border of size 3px.

- e. The font color is white.

#### 10. Misc.(20pts)

- a. Unless specified, the font size of content should be 16px.
- b. It should use the font-family of "Helvetica Neue" and Arial if "Helvetica Neue" is not available.
- c. Unless specified, the font weight of the content should be 300.
- d. Make sure the code is readable. We will grade the code style.
- e. We will check the behaviors when a user scrolls or resizes the page like in the video.
- f. **AGAIN, remember that the textual description here is only to help you. The video and the image attached are the main requirements.**

#### 11. Hints:

- a. Drawing a solid border for all elements may help for debugging
- b. Review CSS selectors. ([http://www.w3schools.com/cssref/css\\_selectors.asp](http://www.w3schools.com/cssref/css_selectors.asp))
- c. Make sure you understand the "[position](#)" property thoroughly.
- d. Watch the video, not just once, but frequently as you write new styles for a new component. Pay special attention to what happens when the browser window is resized.
- e. Use Piazza for Q&A.
- f. Leave questions in this document as comments and I will answer.