Lab 01 - Build a Website

CS 1301 - Intro to Computing - Spring 2020

Important

- Due Date: **Tuesday, February 11th, 11:59 PM**.
- This is an individual assignment. High-level collaboration is encouraged, **but your submission must be uniquely yours.**
- Resources:
    - TA Helpdesk
    - Email TA's or use class Piazza
- **Read the entire document before starting this assignment.**

Getting Started with HTML/CSS

In this lab, you will be building your own web page! You will be using a third-party text editor of your choice to write the HTML and CSS yourself (Python will not be necessary for this assignment). Before you get started, you may want to review some of these links that cover the basics of HTML and CSS:

- w3schools
- HTML Guide
- CSS Guide

HTML is a language that specifies the content of a web page. A CSS file specifies how that content is styled and presented to the viewer (the colors, fonts, positioning, etc). HTML files end with the `.html` file extension, and CSS files end with the `.css` extension. A CSS file is "linked" to an HTML file by means of a special HTML tag in the header. You will need at least two `.html` files and one `.css` file by the time you are finished.

In order to write your code for this lab, we recommend using a third-party text editor. Here are some text editors that you might want to use:

- Atom
- Sublime

At any time, you can test your progress by opening the `.html` file in a web browser such as Safari or Chrome.

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Requirements

Your website will need to meet the following criteria in order to receive full credit:

- `lab01.html`:

  - Must contain at least 2 (or more) images. Additional images can be spread out across your pages however you wish
  - Must contain a list(`<ol>` or `<ul>`, either is fine)
  - Must contain an HTML table containing some type of information, that is at least 3 x 3 in size
  - Must contain at least **3 links:**
    - One must be linked via the usual clickable text
    - One must be linked to your other `.html` file
    - One must be a clickable image link (i.e. nesting an image tag inside an `<a>` hyperlink tag)

- **other html files:**

  - For a later lab assignment, you will be assigned a data analysis project, so for now, your other `.html` page will be about data
    - This `.html` file can be named anything
    - Needs to be linked from `lab01.html`
    - Include any image or infographic related to data/topic that you find interesting
    - Include a paragraph describing this infographic/image and why you think it's interesting. This paragraph should be inside a `<p>` tag

- `style.css`:
  - Formatting of the page background and default text (colors, fonts, background images, anything)
  - Formatting of at least 2 text elements such as `<p>`, `<h1>`, `<ol>`, or `<ul>`
  - Formatting of links (`<a>` tags)
    - Format **visited, active, and hovered** links
  - Formatting of at least two elements using both an **ID** and a **class**
  - It is important to note that all HTML files you make can use the same `.css` file for styling

You can, of course, add anything else you want. **Be creative!** Your site can be about anything: yourself, your pets, your hobbies, an organization you participate in, or something entirely fictional.

Extra Credit

You may receive up to **25 bonus points** on this lab for going above and beyond what is required. These bonus points will be awarded at the discretion of the TAs. Some possible ways to earn these points include, but are not limited to:

- Include non-trivial JavaScript functionalities and interactive elements to your website. Some ideas include **alert boxes**, **dropdown lists**, **menus**, and **buttons**.
- Go above and beyond on your page design with more advanced CSS topics like css-grid, flexbox, or your own effects.
- **Overall creativity!**

Rules

You may **not** use any kind of HTML generators or website builders such as Wix, Weebly, or Squarespace to make your site. You need to do it the old-fashioned way, using a text editor (such as VSCode, Sublime Text, Atom, etc).

This assignment is meant to be a self-guided exploration of web development. TAs will not be providing in-depth support when making your site.

Grading Rubric

lab01.html	Points
`lab01.html` exists	5
your name	5
first image	5
second image	5
link (text)	5
link (image)	5
link (other.html)	5
list `<ol>` or `<ul>`	5
table (at least 3x3)	5
Total	**45**

style.css	Points
`style.css` exists	5
background formatting	5
default text formatting	4
text element 1 formatting	5
text element 2 formatting	5
link formatting (visited, active, hover)	6
element 1 formatting w/ ID	5
element 2 formatting w/ class	5
Total	**40**

other.html (name doesn't matter)	Points
other html exists	5
linked from `lab01.html`	2
infographic/data `<img>` tag	4
data paragraph `<p>` tag	4
Total	**15**

Total (with extra credit): 125/100 points

Provided

We have provided a sample `.zip` folder containing files for you to get started with. Use these files as a reference when building your own site.

Submission Process

Lab01 will be **submitted through Canvas, not Gradescope**. You will need to submit all files used in Lab01 (all images, HTML and CSS files). To do this, zip/compress the entire Lab01 folder that you are coding in, and upload that `.zip` file to Canvas. To double check that you did this correctly, please download your submission, unzip/uncompress it, and open your `lab01.html` in Chrome or Safari to see if everything works and looks correct.

Please put all images that you used in your website in this Lab01 folder. Otherwise, your grader will not be able to see images that you included.