

W1 Lab 1: “Hello World (Wide Web)” and Version Control with Github

In the first half, create a basic website in HTML5, including a stylesheet (two files). The website should feature at least 5 different elements presented in a logical fashion. Put it through the W3C Validator and correct any errors. In the second half, learn how to create a use a Github repository. Commit and push your initial work.

This tutorial is conducted in pairs.



Instructions: “Hello World (Wide Web)”

- 1) Download a text editor if you don't have one already. Notepad++ and Komodo Edit are good choices that provide colour-coding and auto-completion.
- 2) Set up your website folder. If you've already installed a web server (such as Apache), create a new folder (e.g. “W1”) to store your work, and also set up the following folder structure:
 - a. assets
 - i. css
 - ii. images
- 3) In your text editor, create a basic HTML document structure using HTML5 standards and save as a .html file in the tutorial folder (top level). See the W3 Schools website (<http://www.w3schools.com/>) if you need assistance.
- 4) Add at least **five** different elements. Place them in a logical order. For instance, you may wish to create a “nav” element with an unordered list of nav items that have anchors to currently nonexistent pages. If you need some quick text content, try generating some lorem ipsum (<http://lipsum.lipsum.com/>).
- 5) Copy-and-paste your code into the HTML Validator (<https://validator.w3.org/> → “Direct Input” tab). What happens? Are there any errors? If so, correct them. Are there any warnings? If so, what do they mean? Should you change anything, now or be prepared to in the future?

- 6) Create a new document that will be a CSS style sheet and save it to the assets > css folder as a .css file named "style.css."
- 7) Style the following:
 - a. The body font
 - b. "a" and its states (what are they?)
 - c. Special styles for the "a" elements used in your nav
 - d. Headings up to the third level
- 8) Apply some IDs and classes to your elements. Then, apply styles that only affect those IDs and classes.



Advanced

Try some advanced CSS3 effects. Can you create CSS3 animations? How about a menu that flies out from the left or right side?

Can you insert content using the :after and :before selectors? Try adding a scalable SVG icon to your menu items.

Can you create a two-column layout? Three-column? Can you style the last column so that the background colour is different, but without giving it a special class? (Hint: Look up selectors.) How about the middle column?



Instructions: Version Control with Github

- 1) Log into your Github account.
- 2) Follow along with the presentation.



Deliverable:

All of your website files submitted to a GitHub repository. Be sure to include a README.md file with your first names. Send the link to your TA.



Due:

Tutorial day by 11:59pm; ~~pass/fail, 1%~~; waived due to technical glitch.