

## Web Essentials

The foundation of web content is static design for an end user to view. It's where the web began, and it's still a relevant step in learning web design. The client-side trio consists of HTML (for content), CSS (for style), and JavaScript (for interactivity/dynamic display). I'll post links to learn each in individual sections, and then refer you to an example (example.html in the GitHub folder) of putting it all together.

### HTML

This is where we define what to display. W3Schools has some good basic tutorials. The language is really simple, and you'll realistically only use a select few tags (form, br, table, div, span, h\$, etc.) most of the time.

Check it out here: <http://w3schools.com/html/default.asp>

One of the most important things to understand about HTML is the Document Object Model (DOM). All content in HTML tags are related to the client browser in a tree structure – this is how we are able to find things when working dynamically.

Learn about it here: <http://w3schools.com/html/dom/default.asp>

### CSS

CSS defines how to display our html. Again, this is a fairly limited language, with a few things you'll use often, and the rest you reference as needed. It works by specifying a type of content (html tags), and using key-value pairing to set attributes for that content.

Much of CSS is just playing around with it. I'd recommend getting familiar with Chrome's developer tools, as they allow you to do inline, real time CSS editing, so you can see what you are doing to the page.

Check it out here: <http://w3schools.com/css/default.asp>

### JavaScript

JavaScript is our tool for making things happen on the client-side. It is able to use the HTML DOM navigation, or parsing to find elements in the page and make changes to their content (HTML) or how they are displayed (CSS).

While the other concepts were small and easy to pick up, JavaScript is a fully functional programming language (though it is not a hard programming language), which you will have to work with extensively to learn to use effectively. Try some tutorials, and make extensive use of reference material throughout our project, and you should become proficient.

JavaScript tutorials: <http://w3schools.com/js/default.asp>

Interactive JavaScript trainer: <http://www.codecademy.com/#!/exercises/4>