

The Languages of the Web

In this lesson, we will go over some of the popular web languages that we use to build web page.

We'll cover the following

- HTML
- CSS
- JavaScript

There are three main technologies for creating web pages: HTML, CSS and JavaScript.

HTML

HTML, short for [HyperText Markup Language](#), is the document format of web pages. An HTML document is made of text and structural elements called *tags*. Tags are used to describe the page content: paragraphs, headings, hyperlinks, images, etc.

Here is an example of a simple web page, usually stored as an `.html` file.

Output

HTML

```
1 <!doctype html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <title>My web page</title>
6   </head>
7   <body>
8     <h1>My web page</h1>
9     <p>Hello! My name's Baptist
10    <p>I live in the great city
```

```
13 </body>
14
15 </html>
```



Here are a few references for learning more about HTML:

- [Interneting is Hard](#) - A friendly web development tutorial for complete beginners
- [Khan Academy](#) - Intro to HTML
- [Mozilla Developer Network](#) - HTML reference

CSS

CSS, or [Cascading Style Sheets](#), is a language used to alter the presentation of web pages.

CSS uses *selectors* to declare which HTML elements a style applies to. Many selecting strategies are possible, most notably:

- All elements of a given tag name.
- Elements matching a given class (selector syntax: `.myClass`).
- The element matching a given and unique identifier (selector syntax: `#MyId`).

Here is an example of a simple CSS style sheet, usually stored as a `.css` file.

Output

HTML

CSS (SCSS)

```
1 /* All h1 elements are pink */
2 h1 {
3   color: pink;
4 }
5
6 /* All elements with the class "done" are strike through */
7 .done {
```

```
8   text-decoration: line-through;
9 }
10
11 /* The element having id "rude" is shown uppercase with a particular font */
12 #rude {
13     font-family: monospace;
14     text-transform: uppercase;
15 }
```



A style sheet is associated with an HTML document using a link tag in the head part of the page.

HTML

```
<!-- Link to a CSS stylesheet -->
<link href="path/to/file.css" rel="stylesheet" type="text/css">
```



To learn more about CSS, visit the following links:

- Khan Academy - [Intro to CSS](#)
- Mozilla Developer Network - [CSS reference](#) [JavaScript](#)

JavaScript

JavaScript can interact with an HTML document to provide dynamic interactivity: responses to user actions on the page, dynamic styling, animations, etc. It is the only programming language understood by all web browsers.

A JavaScript file, usually stored in a `.js` file, is loaded by a web page with a `<script>` tag.

HTML

```
<!-- Load a JavaScript file -->  
<script src="path/to/file.js"></script>
```

