Web Dev for Beginners

BEACHHACKS 2021
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Resources

www.w3schools.com

www.Codecademy.com

www.freecodecamp.com

Linked In Learning

Free accounts while you are a student at CSULB.

Tools

FileZIlla (Client) – FTP (file transfer protocol)

Sublime Text (MAC or PC)
https://www.sublimetext.com/3

Any txt editor can be used to write html, css or js.

TextEdit for MAC
https://support.apple.com/guide/textedit/work-with-html-documents-txted0b6cd61/mac

Notepad for PC

Basic Page Structure

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Page Title</title>
</head>


<body>



</body>
</html>
```
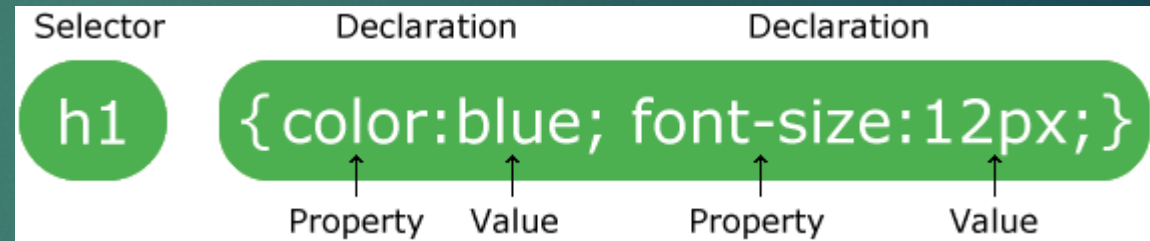
CSS Example

```
body {
  background-color: lightblue;
}

h1 {
  color: white;
  text-align: center;
}

p {
  font-family: verdana;
  font-size: 20px;
}
```

3 ways to insert styles

External style sheet

<link rel="stylesheet" type="text/css" href="mystyle.css">

Internal style sheet- Use html style tags <style></style>

Inline style

 <h1 style="color:blue;margin-left:30px;">This is a heading</h1>

Did You Know?

JavaScript and Java are completely different languages, both in concept and design.

JavaScript was invented by Brendan Eich in 1995, and became an ECMA standard in 1997. ECMA-262 is the official name of the standard. ECMAScript is the official name of the language.

The full form of **ECMA** is European Computer Manufacturer's Association. **ECMAScript** is a Standard for scripting languages such as **JavaScript**, JScript, etc. ... **JavaScript** is a language based on **ECMAScript**

JavaScript Example

Ref: w3schools.com JS WhereTo

```html
<!DOCTYPE html>
<html>
<head>
<script>
function myFunction() {
  document.getElementById("demo").innerHTML = "Paragraph changed.";
}
</script>
</head>
<body>

<h2>JavaScript in Head</h2>

<p id="demo">A Paragraph.</p>

<button type="button" onclick="myFunction()">Try it</button>

</body>
</html>
```

JQuery

jQuery is a JavaScript Library.
jQuery greatly simplifies JavaScript programming.
jQuery is easy to learn.

You can download JQuery or link to it using a CDN (Content Delivery Network)

See W3schools.com

Bootstrap

Bootstrap 4 is the newest version of Bootstrap, which is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites.
Bootstrap 4 is completely free to download and use!

Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.

http://www.getbootstrap.com

Front End vs Back End vs Full Stack Developer

A front-end web developer is mainly in charge of the user interface and the style of the website. HTML, CSS & JS.

Commonly used back-end web technologies are: Python, Ruby and PHP. PHP is a scripting language that works alongside SQL (Structured Query Language, MySQL is a common example), to pull the information from the database and insert it into the HTML file. We can even change the data that's being displayed or update it in the database. EX. Facebook.

A full-stack web developer's role in a website's development lies in both the front-end and Back-End categories. "Stack," means layer in this case. A full-stack web developer has expertise in all layers of a website's development. This includes, but not limited to: the server, client and hosting, a form of data structuring or modeling, user interface and experience, as well as the needs of the actual business.

REF - https://www.codingdojo.com/blog/frontend-vs-backend-vs-full-stack

Wordpress

Wordpress.org – This is where you can learn about self hosting and many other factors of this free open source software.

Wordpress.com – You can create a website that will be hosted on this domain. There is free and paid hosting.

Wordcamp OC – You can Google it to see dates and location.

AMP Stack

In order to run PHP code on our computer, we need a **stack** of technology called **AMP**. That stands for A, Apache; M, MySQL; and P, PHP, the application. Apache is a web server that's responsible for serving web pages or other data across the internet.

WAMP – for windows

MAMP – For MAC

LAMP – For Linux

https://buildamodule.com/video/php-programming-basics-series-introduction-and-your-first-php-script-overview-of-the-amp-stack-apache-mysql-and-php

Desktop Server (serverpress.com) For Local WP Development Environment

Going Live

- GitHub Pages
  https://pages.github.com/

- Campus Server – All students have space on the campus server to post files. The htdocs folder is used to post web pages. FTP account will need to be activated before you can use it.
  https://csulb.teamdynamix.com/TDClient/1993/Portal/KB/ArticleDet ?ID=58936

- My Contact – r.allen@csulb.edu
  Feel free to contact me with any questions.