

Basic Web 101

Coding a website



Course Introduction

Class overview, objectives and introduction.

The basic web development course is an introduction to front end web site development. In this 7-week course, the students will be exposed to HTML5, CSS and JavaScript. By the end of this course, the student will have developed a working set of web pages with various forms of functionality based upon CSS design standards and a working understanding of JavaScript programming.

Welcome Icebreaker

What is a website?

Website

A **website** or **web site** is a page or collection of pages on the World Wide Web that contains specific information which was all provided by one person or entity and traces back to a common **Uniform Resource Locator (URL)**

How do you call a website?

URL

URL is an acronym for Uniform Resource Locator and is a reference (an address) to a resource on the Internet.

For the URL **http://example.com** , the protocol identifier is **http** or **https**.

For the URL **http://example.com** , the resource name is **example.com**

What do you use to call a
website?

Cyber World

What is the internet?

a global computer network providing a variety of information and communication facilities, consisting of interconnected networks using standardized communication protocols.

What is browser?

A web browser (commonly referred to as a browser) is a software application for accessing information on the World Wide Web.



Most used web browser by country, as of June 2015. Google Chrome, Firefox, Safari, UC. Iron, Microsoft Edge, Opera and Android.



How is the website design?

Prototyping

Create engaging user experiences using Adobe XD to preview web and mobile layouts. Create smart canvas navigation for interactive prototypes on Mac and Windows used for developer handoff.

Be sure to install **Adobe XD**

<https://www.adobe.com/products/xd.html>

A browser speaks a language?

Tell me an acronym?

Lol means?

HTML

HTML stands for HyperText Markup Language. Developed by scientist Tim Berners-Lee in 1990, HTML is the "**hidden**" **code** that helps us communicate with others on the World Wide Web (**WWW**).

HTML elements are represented by tags; HTML tags label pieces of content such as "head", "body", "p" and so on.

HTML: Sample Code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Web Development 101</title>
</head>
<body>
  <header>
    <h1>Week One: HTML Sample Code</h1>
  </header>
  <main>
    <p>This class is awesome!</p>
  </main>
  <footer>
    <p>Author: First Name</p>
  </footer>
</body>
</html>
```

The DOCTYPE declaration for HTML5 is very simple: **<!DOCTYPE html>**

The character encoding (charset) declaration is also very simple: **<meta charset="UTF-8">**

UTF-8 is a variable width character encoding capable of encoding all 1,112,064 valid code points in Unicode using one to four 8-bit bytes.

CSS

CSS stands for Cascading Style Sheets and it represents the design conventions that are applied to the display of HTML elements on screen, paper and other media.

CSS syntax is expressed in the form of a rule-set consisting of a selector and a declaration box. Colors are specified using pre-defined color names. CSS can be added to HTML elements in three ways: inline, internal and external.

CSS: Sample Code

```
body {  
    background-color: powderblue;  
}  
  
h1 {  
    color: white;  
    text-align: center;  
}  
  
p {  
    font-family: Verdana;  
    font-size: 20px;  
}
```

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <title>Web Development 101</title>  
    <style>{Style Rules}</style>  
</head>  
<body>  
    <h1>Week One: HTML Sample Code</h1>  
    <p>This class is awesome!</p>  
</body>  
</html>
```

Slack: Course Workspace

Why we are using Slack?

Slack is an American cloud-based set of proprietary team collaboration tools and services

<https://slack.com>

St. Nick Coders

URL: stnickcoders.slack.com

Email: <**Your Email Address**>

Setup Inventory

Google - <https://myaccount.google.com>

Github - <https://github.com>

Github Page - <https://pages.github.com>

Slack - <https://slack.com/>

Adobe XD -
<https://www.adobe.com/products/xd.html>

Atom text editor - <https://atom.io/>

MAMP & MAMP -
<https://www.mamp.info/en/downloads/>

Cyberduck - <https://cyberduck.io/download/>

Javascript: Sample Code

JavaScript is the programming language of HTML and the Web.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Web Development 101</title>
</head>
<body>
    <button type="button" onclick="var name =
document.getElementById('demo').textContent;
alert(name)">Get Name</button>
    <p id="demo">Judi</p>
</body>
</html>
```

PROJECT

Website presentation

Weekday, Month Day, Year / Time

Resources

<https://www.w3schools.com/>

<https://www.photopea.com/>

<https://picsum.photos/>

<https://loremipsum.io/>

<https://wordpress.com/>



Questions & Feedback

Let's Talk!

Thanks!

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