

# Basic Web 101

Coding a website



# Course Introduction

The basic web development course is an introduction to front end web site development. In this 6-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

# Course Dates

**Days:** Tuesday, Wednesday and Thursday

**Time:** 6PM - 8PM

**No Class:** Thursday, October 31 (Halloween), Tuesday, November 5 (Election Day), Thursday, November 28 (Thanksgiving Day)

**Last Class:** Thursday, December 12

# Classroom Rules

1. Be on time (**6PM**)
2. Be respectful of classmates, teachers, and property.
  - a. No talking when teacher is speaking to class.
  - b. No accessing social media platforms or video content during class time
- 3. No use of cell phones allowed**
  - a. No wifi access for portable devices
4. No playing music during class time
5. Work hard, and always do your best.

What is the internet?

# Internet

The **Internet** is a network, or system, that connects millions of computers worldwide.

The Internet: HTTP & HTML

[youtube.com/watch?v=kBXQZMmiA4s](https://www.youtube.com/watch?v=kBXQZMmiA4s)

# What is a **web**\_\_\_?

*web***site**, web*page*, web *application* & web *host*



# Web\_

A **webpage** is a single page shown in a web browser. A single video page on YouTube.com is a *webpage*.

A **website** is a collection of webpages under a single URL (Uniform Resource Locator). Youtube (youtube.com) is a *website*.

A **web application** is a website which offers advanced functionality like a computer program would. An example of a *web application* would be a web based calendar, or web based email. Youtube.com is also a *web application*

# Web Host

A **web host** is the computer which holds the web server and database.

[godaddy.com](https://godaddy.com)

[mamp.info/en](https://mamp.info/en)

[wordpress.org](https://wordpress.org)

[localbyflywheel.com](https://localbyflywheel.com)

# 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)**

What is the world wide web? - Twila Camp  
[youtube.com/watch?v=J8hzJxb0rpc](https://www.youtube.com/watch?v=J8hzJxb0rpc)

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**

Real Talk about HTTPS: <https://www.youtube.com/watch?v=iP75a1Y9saY>

What tool is used to access 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 to design a website?



# 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.

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**).

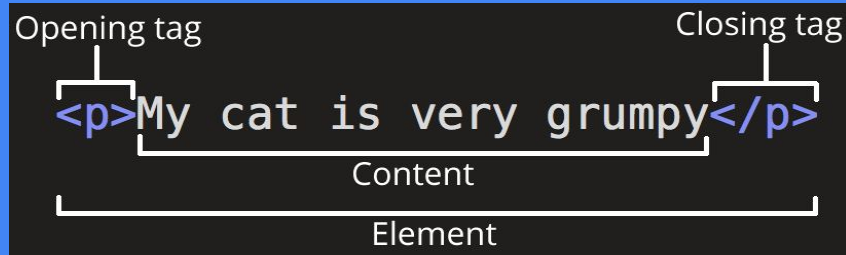
HTML elements are represented by tags; HTML tags label pieces of content such as "head", "body", "p" and so on.

[w3schools.com/tags](https://www.w3schools.com/tags)

[htmlgoodies.com](https://htmlgoodies.com)

[developer.mozilla.org/en-US/docs/Learn/HTML](https://developer.mozilla.org/en-US/docs/Learn/HTML)

# 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">**

A `<meta>` viewport element gives the browser instructions on how to control the page's dimensions and scaling.

**<meta name="viewport"**  
**content="width=device-width, initial-scale=1,**  
**shrink-to-fit=no">**

# 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>
```

# 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>
```



# 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](https://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/>

# 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!

Contact me:

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