

Course duration

- 4 days

Course Benefits

- Learn the basics of web development.
- Learn to create links in HTML documents.
- Learn to add images to HTML documents.
- Learn the benefits of CSS.
- Learn to avoid using deprecated HTML tags and attributes.
- Learn CSS syntax.
- Learn to use <div> and tags appropriately.
- Learn some common CSS properties and their values.
- Learn to use CSS resets and normalizers.
- Learn best practices for choosing units of measurement.
- Learn how to select CSS fonts and to download and use new fonts.
- Learn about color and opacity.
- Learn how JavaScript is used.
- Learn JavaScript syntax.
- Learn about objects, methods, and properties.
- Learn to work with JavaScript variables.
- Learn to create your own functions in JavaScript.
- Learn to write flow control logic in JavaScript.
- Learn to listen for and handle events, such as mouse clicks and page loads, with JavaScript.

Available Delivery Methods

Public Class

Public expert-led online training from the convenience of your home, office or anywhere with an internet connection. Guaranteed to run .

Private Class

Private classes are delivered for groups at your offices or a location of your choice.

Course Outline

1. A Quick Overview of Web Development

1. Client-side Programming
 1. HTML
 2. Cascading Style Sheets
 3. JavaScript 1
 4. Ajax
 5. JavaScript Frameworks
2. Server-side Programming
 1. Java EE
 2. ASP.NET
 3. Python
 4. PHP
 5. ColdFusion
 6. Node.js
2. Introduction to HTML
 1. Getting Started
 2. A Simple HTML Document
 3. The HTML Skeleton
 1. The <head> Element
 2. The <body> Element
 3. Whitespace
 4. HTML Elements
 1. Attributes
 2. Empty vs. Container Tags
 3. Blocks and Inline Elements
 4. Comments
 5. Special Characters
 6. History of HTML
 7. lang Attribute
3. Paragraphs, Headings, and Text
 1. Paragraphs
 2. Breaks and Horizontal Rules
 3. Creating an HTML Page
 4. Quoted Text
 5. Preformatted Text
 6. Text-Level Semantic Elements
4. HTML Links
 1. Text Links
 2. Absolute vs. Relative Paths
 1. Absolute Paths
 2. Relative Paths
 3. Default Pages
 3. Targeting New Windows
 4. Email Links
 5. Adding Links
 6. Targeting a Specific Location on the Page
 7. The title Attribute
5. HTML Images

1. Inserting Images
 1. Making Images Accessible
 2. Alternative Text
 3. Long Descriptions
 4. Height and Width Attributes
2. Image Links
3. Adding Images to the Page
6. HTML Lists
 1. Unordered Lists
 1. Nesting Unordered Lists
 2. Ordered Lists
 1. Nesting Ordered Lists
 2. The type Attribute
 3. The start Attribute
 3. Definition Lists
 4. Creating Lists
7. Crash Course in CSS
 1. Benefits of Cascading Style Sheets
 2. CSS Rules
 1. CSS Comments
 3. Selectors
 1. Type Selectors
 2. Class Selectors
 3. ID Selectors
 4. Attribute Selectors
 5. The Universal Selector
 6. Grouping
 4. Combinators
 1. Descendant Combinators
 2. Child Combinators
 3. General Sibling Combinators
 4. Adjacent Sibling Combinators
 5. Precedence of Selectors
 6. How Browsers Style Pages
 7. CSS Resets
 8. CSS Normalizers
 9. External Stylesheets, Embedded Stylesheets, and Inline Styles
 1. External Stylesheets
 2. Embedded Stylesheets
 3. Inline Styles
 10. Exercise: Creating an External Stylesheet
 11. Exercise: Creating an Embedded Stylesheet
 12. Exercise: Adding Inline Styles
 13. <div> and
 14. Exercise: Divs and Spans
 15. Media Types
 16. Units of Measurement

- 1. Absolute vs. Relative Units
 - 2. Pixels
 - 3. Ems and Rems
 - 4. Percentages
 - 5. Other Units
- 17. Inheritance
 - 1. The inherit Value
- 8. CSS Fonts
 - 1. font-family
 - 1. Specifying by Font Name
 - 2. Specifying Font by Category
 - 2. @font-face
 - 1. Getting Fonts
 - 3. font-size
 - 1. Relative font-size Terms
 - 2. Best Practices
 - 4. font-style
 - 5. font-variant
 - 6. font-weight
 - 7. line-height
 - 8. font
 - 9. Exercise: Styling Fonts
- 9. Color and Opacity
 - 1. About Color and Opacity
 - 2. Color and Opacity Values
 - 1. Color Keywords
 - 2. RGB Hexadecimal Notation
 - 3. RGB Functional Notation
 - 4. HSL Functional Notation
 - 3. color
 - 4. opacity
 - 5. Exercise: Adding Color and Opacity to Text
- 10. CSS Text
 - 1. letter-spacing
 - 2. text-align
 - 3. text-decoration
 - 4. text-indent
 - 5. text-shadow
 - 6. text-transform
 - 7. white-space
 - 8. word-break
 - 9. word-spacing
 - 10. Exercise: Text Properties
- 11. JavaScript Basics
 - 1. The Name "JavaScript"
 - 2. What is ECMAScript?
 - 3. The HTML DOM

- 4. JavaScript Syntax
- 5. Accessing Elements
 - 1. Dot Notation
 - 2. Square Bracket Notation
- 6. Where Is JavaScript Code Written?
- 7. JavaScript Objects, Methods and Properties
- 12. Variables, Arrays, and Operators
 - 1. JavaScript Variables
 - 1. A Loosely-Typed Language
 - 2. Google Chrome DevTools
 - 3. Variable Naming
 - 4. Storing User-Entered Data
 - 2. Constants
 - 3. Arrays
 - 1. Associative Arrays
 - 2. Array Properties and Methods
 - 4. Playing with Array Methods
 - 5. JavaScript Operators
 - 6. The Modulus Operator
 - 7. The Default Operator
- 13. JavaScript Functions
 - 1. Global Objects and Functions
 - 1. parseFloat(object)
 - 2. parseInt(object)
 - 3. isNaN(object)
 - 2. User-defined Functions
 - 1. Function Syntax
 - 2. Passing Values to Functions
 - 3. Returning Values from Functions
- 14. Built-In JavaScript Objects
 - 1. String
 - 2. Math
 - 3. Date
 - 4. Helper Functions
- 15. Conditionals and Loops
 - 1. Conditionals
 - 2. if - else if - else Conditions
 - 3. Short-circuiting
 - 4. Switch / Case
 - 5. Ternary Operator
 - 6. Truthy and Falsy
 - 7. Loops
 - 1. while Loop Syntax
 - 2. do while Loop Syntax
 - 3. for Loop Syntax
 - 4. for of Loop Syntax
 - 5. for in Loop Syntax

8. break and continue
9. Array: forEach()
16. Event Handlers and Listeners
 1. On-Event Handlers
 1. The getElementById() Method
 2. The addEventListener() Method
 3. Capturing Key Events
 4. Benefits of Event Listeners
 5. Timers

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this HTML class:

- Working with computers regularly

Experience in the following *would be useful* for this HTML class:

- Programming Experience
- A basic understanding of how the web works