

HTML Programming Level 1

Course HTML-01B 2 Days Instructor-led, Hands on

Introduction

HTML, Hypertext Markup Language. is the main markup language for displaying web pages and other information that can be displayed in a web browser

As you surf the Internet, you undoubtedly have an idea of what Web pages are and have seen some of their capabilities and limitations. However, merely using the World Wide Web will not give you an understanding of how these pages are created. This two-day, instructor-led course is the first of two courses on the topic of creating Web pages with Hypertext Markup Language (HTML). This course presents the basics of this foundational Web technology and enables you to create your own functional pages. You will create, modify, and test Web pages.

This course is a hands-on instructional tool that lays the foundation for mastering this Web publishing language. It is a course intended for students who are interested in learning about how to create Web documents. Students who want to learn HTML for their own personal use or for business related purposes will all benefit equally.

At Course Completion

Upon successful completion of this course, students will be able to:

- Build your own web page and get it online in an instant
- Format text for maximum clarity and readability
- Create links to other pages and to other sites
- Add graphics, color, and visual pizzazz to your web pages
- Work with transparent images and background graphics
- Design your site's layout and typography using CSS
- Make elements move on your page with CSS transformations and transitions.

Prerequisites

To ensure your success, we recommend you possess the following: experience with Windows or Mac OS operating systems, mouse and word processing skills, and previous use of the Internet.

Course Outline

Module 1: How to code, test, and validate a web page

- The HTML syntax
- The basic structure of an HTML document

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- How to code elements and tags
- How to code attributes
- How to code comments and whitespace
- The CSS syntax
- How to code CSS style rules and comments
- How to code basic selectors
- How to use Brackets to work with HTML and CSS files
- How to open and close the folder for a website
- How to open, close, and display files
- How to start a new HTML file
- How to edit an HTML file
- How to start and edit a CSS file
- How to use split view and the Quick Edit feature
- How to preview an HTML file
- How to test, debug, and validate HTML and CSS files
- How to test and debug a web page
- How to validate an HTML file
- How to validate a CSS file

Module 2: How to use HTML to structure a web page

- How to code the head section
- How to code the title element
- How to link to a favicon
- How to include metadata
- How to code text elements
- How to code headings and paragraphs
- How to code special blocks of text
- How to code inline elements for formatting and identifying text
- How to code character entities
- How to code the core attributes
- How to structure the content of a page
- How to use the primary HTML5 semantic elements
- How to use some of the other HTML5 semantic elements
- When and how to code div and span elements
- How to code links, lists, and images
- How to code absolute and relative URLs
- How to code links
- How to code lists
- How to include images
- A structured web page
- The page layout
- The HTML file

Module 3: How to use CSS to format the elements of a web page

- An introduction to CSS
- Three ways to provide CSS styles for a web page
- Two ways to provide for browser compatibility
- How to specify measurements and colors
- How to specify measurements
- How to specify colors
- How to use the CSS3 color specifications
- How to code selectors
- How to code selectors for all elements, element types, ids, and classes
- How to code relational selectors
- How to code combinations of selectors
- How to code attribute selectors
- How to code pseudo-class and pseudo-element selectors
- How to work with Cascading Style Sheets
- How the cascade rules work
- How to use the developer tools to inspect the styles that have been applied
- How to work with text
- How to set the font family and font size
- How to set the other properties for styling fonts
- How to set properties for formatting text
- How to use CSS3 to add shadows to text
- How to float an image so text flows around it
- A web page that uses external style sheets
- The page layout
- The HTML file
- The CSS file

Module 4: How to use the CSS box model for spacing, borders, and backgrounds

- An introduction to the box model
- How the box model works
- A web page that illustrates the box model
- How to size and space elements
- How to set heights and widths
- How to set margins
- How to set padding
- A web page that illustrates sizing and spacing
- The HTML for the web page
- The CSS for the web page
- A version of the CSS that uses a reset selector

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- How to set borders and backgrounds
- How to set borders
- How to use CSS3 to add rounded corners and shadows to borders
- How to set background colors and images
- How to use CSS3 to set background gradients
- A web page that uses borders and backgrounds
- The HTML for the web page
- The CSS for the web page

Module 5: How to use CSS for page layout

- How to float elements in 2- and 3-column layouts
- How to float and clear elements
- How to use floating in a 2-column, fixed-width layout
- How to use floating in a 2-column, fluid layout
- How to use floating in a 3-column, fixed-width layout
- Two web pages that use a 2-column, fixed-width layout
- The home page
- The HTML for the home page
- The CSS for the home page
- The speaker page
- The HTML for the speaker page
- The CSS for the speaker page
- How to use CSS3 to create text columns
- The CSS3 properties for creating text columns
- A 2-column web page with a 2-column article
- How to position elements
- Four ways to position an element
- How to use absolute positioning
- How to use fixed positioning
- A sidebar that uses positioning

Module 6: How to work with lists, links, and navigation menus

- How to code lists
- How to code unordered lists
- How to code ordered lists
- How to code nested lists
- How to code description lists
- How to format lists
- How to change the bullets for an unordered list
- How to change the numbering system for an ordered list
- How to change the alignment of list items
- How to code links
- How to link to another page

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- How to format links
- How to use a link to open a new browser window or tab
- How to create and link to placeholders
- How to link to a media file
- How to create email, phone, and Skype links
- How to create navigation menus
- How to create a vertical navigation menu
- How to create a horizontal navigation menu
- How to create a 2-tier navigation menu
- How to create a 3-tier navigation menu
- The CSS for a 3-tier navigation menu