

Introduction to CSS (3 Days)

Overview

Modern browsers have terrific support for all commonly used CSS features, which means that it is no longer necessary to teach the types of CSS tricks and hacks that had to be used in the past to make pages look the same across browsers. This CSS course provides a thorough introduction to CSS as it is used in web design today.

Prerequisites

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

- HTML

Course Benefits

- 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 all the 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 and to create backgrounds.
- Learn to work with borders, margin, and padding (the box model).
- Learn to style tables with CSS.
- Learn to use positioning.
- Learn to use transforms and transitions rotate, scale, and skew elements and create animations.
- Learn about flex, grid, and multi-column layouts.
- Learn to style lists and create drop-down and fly-out navigation menus.
- Learn to use media queries to style pages for different device sizes and media.

COURSE OUTLINE

Crash Course in CSS

- Benefits of Cascading Style Sheets
- CSS Rules
 - CSS Comments
- Selectors
 - Type Selectors
 - Class Selectors
 - ID Selectors
 - Attribute Selectors
 - The Universal Selector
 - Grouping
- Combinators
 - Descendant Combinators
 - Child Combinators
 - General Sibling Combinators
 - Adjacent Sibling Combinators
- Precedence of Selectors
- How Browsers Style Pages
- CSS Resets
- CSS Normalizers
- External Stylesheets, Embedded Stylesheets, and Inline Styles
 - External Stylesheets
 - Embedded Stylesheets
 - Inline Styles
- Exercise: Creating an External Stylesheet
- Exercise: Creating an Embedded Stylesheet
- Exercise: Adding Inline Styles
- <div> and
- Exercise: Divs and Spans
- Media Types
- Units of Measurement
 - Absolute vs. Relative Units
 - Pixels
 - Ems and Rems
 - Percentages
 - Other Units
- Inheritance
 - The inherit Value

CSS Fonts

- font-family
 - Specifying by Font Name
 - Specifying Font by Category
- @font-face
 - Getting Fonts

- font-size
 - Relative font-size Terms
 - Best Practices
- font-style
- font-variant
- font-weight
- line-height
- font
 - Exercise: Styling Fonts

Color and Opacity

- About Color and Opacity
- Color and Opacity Values
 - Color Keywords
 - RGB Hexadecimal Notation
 - RGB Functional Notation
 - HSL Functional Notation
- color
- opacity
 - Exercise: Adding Color and Opacity to Text

CSS Text

- letter-spacing
- text-align
- text-decoration
- text-indent
- text-shadow
- text-transform
- white-space
- word-break
- word-spacing
 - Exercise: Text Properties

Borders, Margins, and Padding

- The CSS Basic Box Model
- Introduction to using Google Chrome DevTools with CSS
- Padding
- Margin
- Border
 - border-width
 - border-style
 - border-color
 - border-radius
- box-sizing
- box-shadow
 - Exercise: Borders, Margin, and Padding

Backgrounds

- background-color
- background-image
- background-repeat
- overflow
- background-attachment
- background-position
 - Keywords
 - Coordinates
- Creating a "hint" Class
- background-size
- background-origin
- background-clip
- Modifying the "hint" Class
- background
- Exercise: Backgrounds

Display and Visibility

- display
- visibility

Pseudo-classes and Pseudo-elements

- Pseudo-classes
- Styling Links with Pseudo-classes
- Styling Tables and Articles with Pseudo-classes
 - :nth-child()
- Pseudo-elements
 - content
- Using Pseudo-elements

Styling Tables with CSS

- A Review of HTML table Elements and Attributes
 - Spanning Columns and Rows
- CSS Properties and Styling Tables
 - table-layout
 - border-collapse
- Exercise: Styling a Table Exercise

Positioning

- Normal Flow
- position
 - Positioning with top, bottom, left, and right
- z-index

- float and clear
 - float
 - clear
 - float, clear, and ::after
- Exercise: Positioning

Transforms and Transitions

- transition
 - transition-property
 - transition-duration
 - transition-timing-function
 - transition-delay
- transition
- transform
 - Rotation
 - Scale
 - Skew
 - Translate
- Exercise: Transforms and Transitions

Layouts

- Introduction to Flexible Box Layout Module
 - Some Flexbox Properties
- Introduction to Grid Layout
 - Some Grid Properties
 - Multi-column Layout
- Exercise: Layouts

CSS Lists as Hierarchical Navigation

- Exercise: Basic Vertical Navigation Bars
- Dynamic Drop-down and Fly-out Navigation Bars
 - Exercise: Basic Drop-down Menu
 - Exercise: Basic Fly-out Menu
- Exercise: CSS List Menus

Media Queries

- What Are Media Queries?
 - Breakpoints
 - Media Types
 - Syntax
- Font Awesome
 - Finding and Using Icons
- Exercise: Breakpoints
- Exercise: Targeting Print