

HTML5 and CSS3 Course Content

Introduction to WEB

- W3C and W3C Members
- Why WHATWG?
- What is Web?

HTML Basics

- Introduction
- Parts in HTML Document
- Editors
- Basic
- Elements
- Attributes
- Headings
- Basics
- Paragraphs
- Formatting
- Links
- Head
- CSS
- Images
- Tables
- JavaScript
- HTML XHTML
- HTML4 Drawbacks

HTML5 Introduction

- HTML5 HISTORY
- New Features and groups
- Backward Compatibility
- Why HTML5?
- Power of HTML5:
- m or mobi or touch domains
- Common Terms in HTML5

HTML5 Syntax

- The DOCTYPE:
- Character Encoding:

Obsolete Elements/Deprecated Elements

- <acronym>
- <applet>
- <basefont>
- <big>
- <center>
- <dir>
-
- <frame>
- <frameset>
- <isindex>
- <noframes>
- <s>
- <strike>
- <tt>
- <u>
- <xmp>

HTML5 New Elements

- New Semantic/Structural Elements
- <article>
- <aside>
- <bdi>
- <command>
- <details>
- <dialog>
- <summary>
- <figure>
- <figcaption>
- <footer>
- <header>
- <mark>
- <meter>
- <nav>
- <progress>
- <ruby>
- <rt>
- <rp>
- <section>

- <time>
- <wbr>

HTML5 Canvas

- What is Canvas?
- Create a Canvas
- Canvas Coordinates
- Canvas – Paths
- Canvas – Text
- Canvas – Gradients
- Canvas – Images

HTML5 SVG

- What is SVG?
- SVG Advantages
- Differences Between SVG and Canvas
- Comparison of Canvas and SVG

HTML5 Drag/Drop

- Introduction
- Make an Element Draggable
- What to Drag?Where to Drop?

HTML5 Geo location

- Introduction
- Locate the User's Position+
- Handling Errors and Rejections
- The getCurrentPosition()
- Geolocation object

HTML5 Video

- Introduction
- Video on the Web
- How It Works?
- Video Formats and Browser Support
- HTML5 Video Tags

HTML5 Audio

- Introduction
- Audio on the Web
- How It Works?
- Audio Formats and Browser Support
- HTML5 Audio Tags

HTML5 Input Types

- Introduction
- color
- date
- datetime
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week

HTML5 Form Elements

- <datalist>
- <keygen>
- <output>

HTML5 Form Attributes

- New attributes for <form> and <input>New attributes for <form>:
- autocomplete
- novalidate

New attributes for <input>

- autocomplete
- autofocus
- form, formaction

- formenctype,formmethod
- formnovalidate
- formtarget
- height and width
- list, min and max
- multiple
- pattern (regexp)
- placeholder
- required, step

HTML5 Semantic

- Introduction
- What are Semantic Elements?
- non-semantic elements: <div> and
- semantic elements: <form>, <table>, and
- New Semantic Elements in HTML5
- <header>
- <nav>
- <section>
- <article>
- <aside>
- <figcaption>
- <figure>
- <footer>

HTML5 Web Storage

- What is HTML5 Web Storage?
- Browser Support
- The localStorage Object
- The sessionStorage Object

HTML5 App Cache

- What is Application Cache?
- Cache Manifest Basics
- HTML5 Cache Manifest

HTML5 Web Workers

- What is a Web Worker?

- Check Web Worker Support
- Create a Web Worker File
- Terminate a Web Worker

HTML5 SSE

- One Way Messaging
- Browser Support
- The EventSource Object

HTML Media

- New Media Elements
- <audio>
- <video>
- <source>
- <embed>
- <track>

HTML Multimedia

- What is Multimedia?
- Browser Support
- Multimedia Formats
- Video Formats
- Sound Formats

HTML5 – MathML

- Introduction
- Using MathML Characters
- Matrix Presentation
- Math Formulas

CSS 1.0 and 2.0

- CSS Basics
- CSS Introduction
- CSS Syntax, CSS Id, Class and CSS Styling, Styling Backgrounds
- Styling Text, Styling Fonts, Links, Styling Lists and Styling Tables
- CSS Border

CSS3

- Introduction
- CSS3 Modules
- Selectors
- Box Model
- Backgrounds and Borders
- Text Effects
- 2D/3D Transformations
- Animations
- Multiple Column Layout
- User Interface

Borders

- border-radius
- box-shadow
- border-image

CSS3 Backgrounds

- background-size
- background-origin

CSS3 Text Effects

- text-shadow
- word-wrap

CSS3 Fonts

- @font-face Rule
- font-stretch
- font-weight

CSS3 2D Transforms

- How Does it Work?
- Browser Support
- 2D Transforms
- translate()

- rotate()
- scale()
- skew()
- matrix()

CSS3 3D Transforms

- rotateX()
- rotateY()

CSS3 Transitions

- How does it work?
- transition-property, duration and delay

CSS3 Animations

- CSS3 @keyframes Rule
- Browser Support
- Animation, animation-duration

CSS3 Multiple Columns

- column-count
- column-gap
- column-rule

CSS3 User Interface

- resize
- box-sizing
- outline-offset