

## HTML 5 & CSS 3

### HTML 5

#### **1. Overview of HTML5**

- The Story Behind
- The HTML5 Advantages
- HTML vs. HTML5
- What's new in HTML5
- Semantic Markup
- New HTML5 Semantic Tags

#### **2. Semantic Markup and Selector APIs**

- Semantic Markup
- Selector APIs

#### **3. The Canvas API**

- Introduction
- Understanding
- Browser Support & Alternate Content
- Working with Canvas

#### **4. Scalable Vector Graphics in HTML5**

- Overview
- Working with SVG in HTML5

#### **5. Multimedia in HTML5**

- Introduction to Multimedia
- Codecs and Containers
- Browser support for Audio/ Video
- Working with Audio/ Video Elements

#### **6. Working with Forms API**

- Overview of Forms
- Functional Forms
- The Input Catalog
- Common Input Types
- HTML5 Input Types
- HTML5 Form Attributes and Functions
- Validating Form Elements in HTML5

### CSS 3

#### **1. Introduction to CSS3**

- Brief Description
- Writing CSS
- Browser-specific Prefixes
- Adding Comments to a CSS

## **2. Basic Selectors**

- Understanding Selectors
- The Document Object Model (DOM)
- Using DOCTYPE
- Types of Selectors
- Grouping Selectors
- Styling Links
- Playing with Cursor

## **3. Working with Sizes, Colors and Files**

- Sizes and Measuring Units
- Exploring Colors
- Background Images

## **4. Styling Text**

- Working with Fonts
- Dealing with Line Spacing
- Changing the Text Color
- Text Formatting
- Adding Text Shadows

## **5. Web Fonts**

- Desktop Fonts vs. Web Fonts
- Adding Web Fonts to Sites
- Font Formats and the Supporting Browsers
- Embedding Web Fonts

## **6. Background, Borders and Shadows**

- CSS Background
- Adding Multiple Images to the Background
- Defining Borders
- Additional Border Properties
- Using Border Images
- Adding Drop Shadows
- Outline Styling

## **7. Gradients without Images**

- Understanding Gradients

- Creating Linear Gradients
- Creating Radial Gradients
- Repeating Gradients
- Using Multiple Gradients

## **8. Advanced Selectors**

- Why Advanced Selectors
- First, Last and Only Child Instances
- Styling Selectors Based on Positions
- Styling Selectors Based on Relationships
- Styling Selectors Based on States
- Negative Selectors
- Other Pseudo Classes

## **9. Lists and Navigation Menus**

- Working with Lists
- Navigation Menus

## **10. Exploring Generated Content**

- What is Generated Content
- Inserting the Generated Content
- Working with Counters
- Using before and after as Pseudo Classes

## **11. Transforms and Transitions**

- Transforms in CSS3
- CSS3 Transitions
- Adding Transformation to the Transition

## **12. Animating Elements with Keyframes**

- Animation vs. Transitions
- Creating Animations Using Keyframes
- Setting the Animation Direction
- Setting the Speed Curve of Animation

## **13. Styling Tables**

- Table Structure
- Grouping Table Rows
- Table Layout Interpretation by Browsers
- Styling Tables in CSS

## **14. Elements Positioning**

- Understanding the Elements Positioning
- Positioning Types
- Positioning Elements
- Creating Tooltips
- Drop Down Menus
- Masking an Absolutely Positioned Element

## **15. Working with Layouts**

- Introduction to CSS Box Model
- Setting Element Dimensions
- Paddings and Margins
- Changing Layout with display
- Controlling Visibility
- Floating Elements
- Using Multiple Classes

## **16. Multi-Column Layouts with CSS3**

- The Multi-Column Layout
- Multi-Column Properties
- Dealing with Column Breaks

## **17. Dealing with Cross Browser Layouts**

- Creating Columnar Layouts using float
- Introducing Flexbox

## **18. Media Queries**

- Understanding Media Queries
- Specifying Media Queries
- Setting Viewport
- Handling Images with Media Queries

## **19. Print CSS3**

- Introduction
- Media Types
- The media Rules
- Defining Page Margins
- Specifying Page Breaks