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HTML – 5

➢ HTML5 Introduction

- What is New in HTML5?
- New HTML Elements
- New HTML5 API's
- Elements Removed in HTML5
- HTML History
- HTML5 Browser Support
- Define HTML5 Elements as Block Elements
- Adding New Elements to HTML
- Problem with Internet Explorer

➢ HTML5 Skeleton

- New HTML5 Elements
- HTML5 Semantic Elements?
- What are Semantic Elements?

➢ New Semantic Elements in HTML5

- HTML5<article> Element
- Nesting Semantic Elements
- HTML5<header> Elements
- HTML5<footer> Elements
- HTML5<nav> Elements
- HTML5<aside> Elements
- HTML5<figurer> Elements
- HTML5<figcaption> Elements

➢ New Form Elements

- New Input types
- Color
- Date
- Date time
- Date time – local
- Email
- Month
- Number
- Range
- Search
- Tel
- Time
- Url
- week

➢ HTML5 – New Attribute Syntax

- HTML5 Graphics
- New Media Elements

➢ HTML5 Migration

- Migration from HTML4 to HTML5
- HTML Coding Conventions
- Use Correct Document Type
- Use lower case Element Names
- Close All HTML Elements

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- Close Empty HTML Elements

➢ HTML5 Canvas

- What is HTML Canvas?
- Drawing with JavaScript
- Draw a Line
- Draw a Circle
- Draw a text
- Stroke text
- Draw linear gradient
- Draw Circular Gradient
- Draw image

➢ HTML5 SVG

- What is SVG?
- SVG Shape
- SVG Circle
- SVG Rectangle
- SVG Rounded Rectangle
- SVG Star
- SVG Logo
- Differences Between SVG and Canvas
- Comparison of Canvas and SVG

➢ HTML Multimedia

- What is Multimedia?
- Multimedia Formats
- Common Video Formats
- Sound Formats

➢ HTML5 Video

- Paying videos in HTML
- The HTML <video> Element
- How it works
- HTML <video> Auto Play
- HTML Video – Browser Support
- HTML Video – Media types
- HTML Video – Methods, Properties, and Events Attributes

➢ HTML5 Audio

- Audio on the Web
- HTML Audio – How it Works?
- HTML Audio – Browser Support
- HTML Audio – Media Types
- HTML Audio - Methods, Properties, and Events Attributes

➢ HTML Plug-ins

- HTML Helpers (plug-ins)
- The <object> Element
- The <embed> Element
- HTML YouTube Videos
- HTML APIs

➢ HTML5 Geo location

- Locate the User's Position

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- Using HTML Geo location
- Handing Errors and Rejections
- Displaying the result in a Map
- Location-specific information
- Geo location object - other interesting Methods

➢ HTML5 Drag and Drop

- Drag and Drop
- Make an Element Draggable
- What to Drag – ondragstar
- And setData()
- Where to Drop - ondragover
- Do the Drop – ondrop

➢ HTML5 Local Storage

- What is HTML Local Storage?
- HTML Local Storage Objects
- The Session Storage Objects
- The local storage Object

➢ HTML5 Application Cache

- What is Application Cache?
- HTML Cache manifest Example
- Cache Manifest Basics
- The Manifest File
- Cache manifest File
- Networking
- Fallback
- Updating the cache

➢ HTML5 Web Workers

- What is a Web Worker?
- Check Web Worker Support
- Create a Web Worker File
- Create a web Worker Objects
- Terminate a Web Worker
- Reuse the web Worker
- Full Web Worker Example
- Web Workers and the DOM

➢ HTML5 Server-sent Events

- Server-sent Events- one Way Messaging
- Receive server-sent events notifications
- Check server- sent event support
- Server- side code example

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- The event source Object

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