

## HTML Basics

- Introduction
- Overview and Prerequisites
- What Is HTML and Basic of HTML
- Parts in HTML Document
- Editors
- Basic tags
- Elements
- Attributes
- Headings
- Paragraphs
- Formatting
- Links
- Head
- CSS
- Images
- List
- Tables
- Block and Inline Elements
- Layout

## HTML5 Introduction

- Introduction to HTML5 HISTORY
- New Features and API
- Why HTML5?
- What Is HTML5?
- HTML5 Platform

- What: Structural Elements
- Structural Elements

## HTML5 Syntax and Semantics

- Specifying the DOCTYPE
- Specifying the Character Set
- Specifying the Language
- Optimizing <script>s and <link>s

## 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 Geolocation
- 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

## **CSS Content**

### Introduction to CSS

- Why CSS?
- Adding Some Styles
- CSS Levels
- Rules
- Simple Selectors
- Other Selectors
- Specifying Property Values Cascading and Inheritance in CSS
- Introduction
- The Cascade
- Using the Cascade

- Ordering Rules
- Developer Tools and CSS
- CSS Reset
- Specificity
- Specificity in Action
- Inheritance
- Inheritance in Action

## CSS and the Box Model

- Introduction
- The Big Three
- Border, Margin, Padding
- Top, Right, Bottom, Left
- Vertical Margins Collapse
- Width
- Display and Visibility
- Styling a menu

## Styling Text with CSS

- Introduction
- Font Collections
- Using font-family
- Font Selection
- Font Styling
- Text Properties Layout with CSS
- Introduction
- Position
- Relative Positioning

- Absolute and Fixed Positioning
  - Float and Clear
  - 2 Column Layout
  - 3 Column Layout
- Introduction to javascript
- Introduction of javascript
  - Work Engines
  - What javascript can do at browser side
  - Developer Console
  - IDE and Lightweight editors
  - Declaration syntax of javascript
  - Statements
  - Comments
  - Popup Boxes
  - Alert
  - Confirm
  - Prompt
  - Variables, Arrays and Operators
  - Variables, Const, let
  - Operators
  - Arithmetic, Assignment
  - Comparison
  - Logical

## Data Type

- Number
- String

- Boolean
- Null, Undefined
- Typeof Operator Document object model DOM
- DOM manipulation Functions
- Conversion functions Functions
- Function and Callback function
- Return statement
- Function declaration vs expression
- Arrow Function

## Conditional statements

- if
- if...else
- if...else if...else
- Switch

## Loops

- while
- do...while
- for
- for...in Statement
- Break
- Continue Object
- Introduction to Object
- Introduction to JSON
- Copy by reference
- Compare by reference
- Const Object

- Garbage Collector

Window object Document object Arrays

- Associative Arrays
- Array Properties and Methods Advanced JavaScript
- Date object
- This object
- Event object
- State management
- Cookie
- Form validation
- Expressions
- Email validation
- Dynamic functionalities of html controls Code Quality and debugging
- Google Developer Tool
- The source
- Console
- Developer console
- Breakpoints
- logging

Git

- What is git
- How to use git
- Installation of git
- Different types of Configuration in git
- Git Working areas
- Git Local and Remote Branch
- Introduction to git CLI

- Basic git Commands
- Creating git Repositories
- Git History Management
- Git Config
- Git Status
- Git add
- Git Commit
- Git Log

## GitHub

- Introduction to GitHub
- Creating repositories in GitHub
- Git Clone
- Syncing the Git Repositories
- Git Pull
- Git Push

## Git Branching

- Introduction to branching
- Creating Branches
- Git Merge
- Git

## Git Deletion Operations

- Git clean
- Git revert
- Git checkout
- Git Stash