



# Web Development

## Introduction to Web Technologies

- » Careers in Web Technologies and Job Roles
- » How the Website Works?
- » Client and Server Scripting Languages
- » Difference between a Web Designer and Web Developer
- » Types of Websites (Static and Dynamic Websites)
- » Responsive design and layout

## Photoshop

- » Introduction to Adobe Photoshop
- » Color mode & resolution
- » Types of Graphics
- » Export image
- » Animated Image
- » Tools
- » Ruler and scaling
- » Create Logos
- » Photos masking
- » Smart Objects
- » Merge Layers
- » Group Layers
- » Layer Styles
- » Blending Options
- » View Menu / Window Menu
- » Filter Effects
- » Image Adjustments
- » Realtime Website Layout Design

## HTML 4.0

### What is Markup Language

### Basic Structure of HTML

### Document Overview

- The Structure Tags
- Getting Started With HTML
- Writing the Code
- Head Section
- Meta Tags
- External Link Tags
- HTML Tags
- HEAD Tags
- Title Tags
- Body Tags
- Displaying a web page in a web Browser

## HTML Elements

- Block level elements
- Inline elements
- Empty elements

## Working with Forms

- Creating a Form
- Form Tag
- POST and GET Method
- Text Input, Text Area, Checkbox, Image Input and Radio
- Select Option
- Option Group
- File Upload and Hidden Fields
- Submit Button, Reset Button
- Relation between HTML Form and PHP

## Adding Special Characters

### Block Oriented Elements

- Defining Paragraphs and new Lines
- Inserting Spaces
- Perforating the Text
- Changing Background Color

### List

- Ordered List
- Unordered List
- Definition List

### Attributes of List

- Using Type attribute with Unordered list
- Using Stat attribute with Ordered List
- Some other elements
- Visual Markup

### Uniform Resource Locators

- Types of URLs
- Absolute URLs
- Relative URLs
- Document-Relative URLs
- Server-relative URLs

### Hypertext Links

- Why links fail?

### Images

- Adding Images
- Adding Border to an image

### Tables

- How to create table
- Adding Border to a Table
- Apply Formatting Features to Table
- Merge row and columns

### Introduction to style Sheets

- How style sheets work
- Style Sheet Structure

### Changing the Background

- Changing the color of the text
- Changing the front
- Changing the Indent of the text
- Changing the Line Spacing
- Hide a Style Sheet

## Creating Style Classes

- Div
- Span
- Frame
- Layer
- Meta
- HTML Frames
- Frame
- iframe

## HTML5

- Introduction to HTML5
- Introduction to HTML5
- What's new in HTML5

### HTML5 Syntax

- The DOCTYPE
- The <script> tag
- The <link> tag
- HTML5 Document

### New input Elements

- Color
- Date
- Datetime
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week

### New Input attributes

- autofocus
- formaction
- formmethod
- formnovalidate
- height and width
- list
- min and max
- multiple
- pattern (regexp)
- placeholder
- required
- step

### Audio and Video

- <audio>
- <video>
- <source>

### New Structural Elements

- <details>
- <dialog>
- <summary>
- <meter>
- <main>
- <header>&<footer>
- <section>
- <aside>
- <figure>

## SVG

- What is SVG?
- SVG Advantages
- SVG in HTML
- SVG Shapes
- SVG Text
- SVG Stroke properties
- SVG Animation

## Canvas

- What is canvas?
- Lines
- Curves
- Paths
- Shapes
- Color, gradients
- Image
- Arc
- Text
- Shadow

## HTML5 APIs

- Google Map
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## CSS Drag & Drop

- CSS Introduction
- CSS Syntax
- CSS Id & Class
- Types of CSS links

## Colors and Backgrounds

- color
- background-color
- background-image
- background-repeat
- background-position
- background-attachment
- background

## Text and Fonts

- font
- font-family
- font-size
- font-weight
- font-style
- line-height
- letter-spacing
- word-spacing
- text-align
- text-decoration
- text-transform
- white-space

## Lists

- list-style
- list-style-type
- list-style-image
- list-style-position

## Tables

- table-layout
- border-collapse
- border-spacing

## CSS Selectors

- Universal Selector
- Type Selector
- Class Selector
- ID Selector
- Child Selector
- Descendant Selector
- Attribute Selector
- Adjacent Sibling Selector
- General Sibling Selector
- Query Selector

## CSS Box Model

- CSS Border
- CSS Outline
- CSS Margin
- CSS Padding

## CSS Advanced

- CSS Grouping/Nesting
- CSS Dimension
- CSS Display
- CSS Positioning
- CSS Floating
- CSS Align
- CSS Pseudo-class
- CSS Pseudo-element
- CSS Navigation Bar
- CSS Image Gallery
- CSS Image Opacity
- CSS Attribute Selectors
- Styling Links

## CSS 3.0

### Introduction to CSS3.0

### What's new in CSS 3.0

#### Border

- border-image
- border-radius

#### CSS Shadows

- Text-shadow
- Box-shadow

#### Background

- background-clip
- background-size
- background-origin
- background-image

#### Outline

#### Transitions

- transition
- transition-delay
- transition-duration
- transition-property

#### Transform

##### 2D Transforms

- transform
- matrix()
- translate(x,y)
- scale(x,y)
- rotate(angle)
- skew(x-angle,y-angle)

##### 3D Transforms

- transform
- transform-style

- perspective
- transform-origin

## Animations

- @keyframes
- animation
- animation-direction
- animation-duration
- animation-name

## Selectors

- CSS combinations
- Pseudo Elements

## Gradients

- Linear Gradients
- Radial Gradients

## Multiple Columns

- column-count
- column-fill
- column-gap
- column-width
- columns
- column-rule
- column-rule-color
- column-rule-style
- column-rule-width

## User Interface

- resize
- box-sizing
- outline-offset

## CSS Filters

- Blur
- Brightness
- Contrast
- Grayscale
- Hue-rotate
- Invert
- Opacity
- Saturate
- Sepia
- Drop-shadow

## Media Query

- What is Responsive Web Design
- Intro to the Viewport
- The Viewport Tag
- Media Queries
- Fluid Layouts
- Tablet Styles
- Mobile Styles
- Making a Mobile Drop-down Menu
- Responsive Images & Polyfills

## Web Fonts

- @font-face
- font-family
- src
- font-stretch
- font-style
- font-weight

## Flexbox

- flex-grow
- flex-shrink
- flex-basis
- flex
- flex-wrap
- flex-direction
- flex-flow
- justify-content
- align-items
- order

## Dreamweaver cc

### Interface

- choosing a workspace
- document window & toolbars
- the document window
- the launcher
- the insert panel & tool sets
- the document toolbar
- the property inspector
- dockable floating panels
- using contextual menus

### Site Control

- defining a site
- file and folder management
- creating site maps
- using the file browser

### Basics

- defining the site
- creating and saving documents
- inserting images with assets panel
- adding text
- aligning page elements
- modifying page properties
- creating links with text and images
- preview in browser

### Linking

- link with point to file
- linking to new source files
- browse for file and link history
- anchor links
- email links
- file links
- image maps

### Typography

- About Typography
- Web Typography

### Tables

- insert and modify a table
- fixed width tables
- relative width tables
- hybrid table
- insert tabular data
- sort table data

## **Rollovers**

- simple rollovers - insert rollover
- simple rollover - swap image behavior
- multiple-event rollovers
- flash buttons

## **Cascading Style Sheets**

- redefining HTML tags
- defining a custom class
- CSS selectors
- CSS selectors to group tags
- linking to external CSS
- CSS reference panel

## **Forms**

- form objects
- creating a form
- creating a jump menu

## **Behaviors**

- set text of status bar
- open browser window behavior

## **Inserting Media Objects**

- linking to sounds
- embedding sounds
- inserting flash
- content inserting director content

# **JAVASCRIPT**

## **Introduction to JavaScript**

- Syntax
- Statements
- Comments

## **Enabling in various browsers**

### **Popup Boxes**

- Alert
- Confirm
- Prompt

## **Variables**

### **Operators**

- Arithmetic
- Assignment
- Comparison
- Logical
- Conditional

### **Conditional Statements**

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

### **Loops**

- while
- do...while
- for
- for...in Statement
- Break
- Continue

### **Functions**

- User-defined Functions
  - Function Syntax
  - Function with Arguments
  - Returning Values from Functions
- Built-in Functions
- parseInt and parseFloat



## Events

- Introduction
- Mouse Events
- Keyboard Events
- Form Events
- Document/Window Events

## Cookies

### Page redirection

### Built-in Objects

- Introduction
- Number
- Strings
- Math
- Arrays
- Associative Array
- Array Properties and Methods
- Date
- Boolean
- Regexp

### Advanced javascript

- Form Validations
  - Basics of Form Validation
  - Validating Radio Buttons
  - Validating Checkboxes
  - Validating Select Menus
  - Validating Textareas

### JS Document Object Model (DOM)

- Introduction
- DOM HTML
- DOM CSS
- DOM Events

### JS Browser Object Model (BOM)

- JS Cookies
- JS Window
- JS Location
- JS Popups
- JS Time

### Introduction to OOP concept

## Jquery

### What is JQuery?

### Overview of JQuery features

### Using JQuery links

### JQuery Selectors

### JQuery Events

### JQuery Effects

- Hide() & show()
- Fade()
- Slide()
- Animate()
- Callback function
- Chaining

### JQuery HTML

- Get() & Set()
- Add() & Remove()
- CSS()
- Dimensions()

### JQuery Traversing

- Parent() & children()
- Next() & Prev()
- Find()

**Jquery AJAX**

**Image slider using JQuery plugins**

**Form Validation**

**Bootstrap Framework**

**Getting started with Bootstrap**

**Grid system in Bootstrap**

**Adding Header & Navigation**

**Adding Logo in Navigation Bar & Adding Banner**

**Adding Jumbotron**

**Adding Rows, Columns & Containers**

**Adding Column Width using offset**

**Ordering Columns using push or pull**

**Nesting Columns in Bootstrap**

**Adding Footer top Website**

**Typography in Bootstrap**

**Adding glyphicons**

**Styling Tables**

**Adding Responsive or Utilities in Bootstrap**

**Styling Button using between classes**

**Styling Images and making images Responsive**

**Adding description list in bootstrap**

**Adding Panels**

**Live Website Design Project (100% Realtime Project)**

- **Designing a Professional Photoshop Template**
- **Conversion of PSD to HTML**
- **Adding the Contact Form**
- **Form validations using JS**