

# Web Design & Dev. Combo

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## Day 1

### HTML PART 1

#### Intro to the web

- The web
- Clients
- Servers
- Browsers
- Browser Usage
- Client/Server
- FTP Clients: CoreFTP

#### HTML

- Anatomy of a website
- HTML: What is HTML
- HTML: Editors
- Anatomy of HTML tag
- HTML Basics
- Head and Body
- Headline
- Paragraphs
- Line breaks
- Lists
- Ordered list
- Formatted text
- Images
- Links
- Commenting in HTML
- Grouping elements
- HTML validators

## Day 2

### HTML PART 2

#### HTML Advanced

##### Tables

- Table element
- The table caption

##### Grouping sections of a table

- Rowspan
- Colspan
- Head
- Body
- Foot

##### Forms



- Form element
- Input element
- Label element
- Checkboxes
- Radio Button
- The select element
- Textarea
- Button element
- Form processing

#### **Iframes**

- Iframe element
- Iframe embeds: Maps
- Iframe embeds: Calender

#### **Multimedia**

- The Object element
- The Embed element
- Embeds: Youtube

#### **Multimedia in HTML5**

- Video file format
- The Video element
- Multiple video sources
- The audio element
- Multiple audio sources

## Day 3

### **CSS PART 1**

#### **CSS**

- Anatomy of a website
- What is CSS
- Anatomy of CSS

#### **Where to put CSS**

- Internal (embedded)
- External (link)
- Inline

#### **Selectors**

- Types of selector
- Type selector
- Class selector
- Id selector
- Position in document
- Element plus class selector
- Pseudo classes
- Grouping selectors

#### **Cascade rules**

#### **CSS styles**

#### **Coding convention**



### **Naming convention**

Comments  
Property value pairs  
Property color  
Property background color  
Finding colors  
Font-family  
Finding fonts  
CSS3 fonts  
Property font size  
Property font-size em  
Font-size px  
Font-size (%)  
Font-style  
Font-weight  
Short hand properties

## Day 4

### **CSS PART 2**

#### **CSS Layout**

- Height and width
- Box model
- Margin
- Auto margin
- Border
- Border thickness
- Border style
- Border color
- Padding
- Exercise

#### **Position**

- Normal
- Relative
- Absolute
- Z-index
- Float
- Clear

#### **Page layout**

#### **HTML 5 layout**



## Day 5

### JavaScript Part 1

Intro to programming

- What is programming

- Types of programming

- Machine code

- Assembly language

- High level language

- Compiled vs. Interpreted

Language of the web

History of JS

What JS can do

Statements

Variables

Primitive Data types

Variables

Primitive Data types

Variable Names

Expressions

Loose Type

Exercise Time!

Comments

Functions

Beware: Circular Dependencies

Arguments

Return Values

Variable Scope

Coding Conventions: Spacing

Getting help

## Day 6

### Photoshop Part 1

#### Getting started with Photoshop

- What is Photoshop?
- Photoshop interface
- Photoshop tools
- Pan and Zoom
- Opening an image
- Opening multiple images
- Viewing multiple images in full screen mode
- Creating an image
- Placing an image
- Different ways of applying color to an image
- Using Photoshop color picker



- Applying a gradient to an image
- Different file formats
- Saving an image

#### **Basic photo manipulation**

- Cropping images
- Straighten images
- Perspective cropping
- Transforming images
  - Distorting images
  - Skew image
  - Image perspective
- Smart objects

#### **Text**

- Text option bar tool
- Character panel
- Warping text
- Creating simple text effect

#### **Putting everything together**

## Day 7

### **JavaScript Part 2**

Control flow + More Data Types  
Review: Terminology  
The if statement  
Comparison Operators  
TruthyvsFalsey  
Short-Circuit Evaluation  
The if/else statement  
The if/else if/else statement  
The while loop  
The for loop  
The break statement  
JS Objects and DOM  
Objects  
Objects Access

## Day 8

### **Photoshop Part 2**

#### **Layers**

- Layer basics
- Duplicate layer and Opacity
- Layer style effect



- Saving a layer style

- Creating a clipping mask

#### **Image retouching**

- Using a content aware
- Patch tool
- Content-aware move
- Clone stamp tool
- Healing tool
- Spot healing tool

**End**

## Day 9

### **JavaScript Part 3**

JS Objects and DOM  
Objects  
Objects Access  
Changing Objects  
Array of Objects  
Objects as Arguments  
Object methods  
Built in Objects  
HTML Editors  
HTML and CSS: Review  
JS in HTML  
Changing Objects  
Array of Objects  
Objects as Arguments  
Object methods  
Built in Objects  
HTML Editors

## Day 10

### **Bootstrap**

#### **Getting started with bootstrap**

- Why bootstrap
- Overview of responsive web design
- Adjusting a layout
- Getting bootstrap ready

#### **Bootstrap grid system**

- What is a Grid system
- Building a basic grid
- Creating a dynamic layout



- Designing for desktop
- Designing for tablets
- Designing for mobile
- Nesting column
- Offsetting column
- Reordering grids

**Project**

## Day 11

### JavaScript Part 4

The DOM Tree

DOM Inspecting

DOM Access

DOM Access: Easier

DOM Access: HTML 5

DOM Nodes: Attributes

DOM Nodes: Styles

DOM innerHTML

DOM Modifying

Animation

- The window object

- Animation in JS

- Animating styles

- Stopping an animation

Events

Why we need events

Adding Events Listeners

Event Types

Event Properties

Processing form input

Waiting for window "load"

JS Best Practices

Further Study

## Day 12

### Project





## Day 13

**Web Design project for student**

## Day 14

**Web Design project for student**

## Day 15

**JavaScript Project**

## Day 16

**Free Day**

## Day 17

**Jquery**

## Day 18

### **PHP Part 1**

Introduction and basic syntax

Basic syntax

Variables

Operators

Strings

Conditional statement

    If/else

    Switch

While loop

Do-while loop

For-loop

## Day 19

### **PHP Part 2**

Functions and Global variables

    Defining a function

    Return values



Making functions calls  
Variable scope  
Global variable scope

## Day 20

### PHP Part 3

Arrays  
Array as a list of elements  
Array as a key value mapping  
Associative array  
Array functions  
For-each loop  
HTTP Requests and Forms  
Superglobals  
Passing information to the server  
When to use `$_GET` vs. `$_POST`

## Day 21

### MYSQL Part 1

Connecting to MySQL  
Making SQL queries  
SQL injection  
Retrieving information from a query

## Day 22

### MYSQL Part 2

A registration-login example  
Register page  
MySQL recap  
Conclusion



## Day 23

**PHP/MySQL**

## Day 24

**Wordpress/CMS**

## Day 25

**Wordpress/eCommerce**

## Day 26

**Oline Library System**

## Day 27

**Result Checking Portal**

## Day 28

**Project**