

NEW WEBMASTER HTML & CSS FOR BEGINNERS COURSE SYNOPSIS

LESSON 1 – GETTING STARTED

- Before We Get Started;
 - Pre-requisites;
 - The Notepad++ Text Editor;
 - Download Chrome, Firefox, Opera, & Safari Browsers;
 - The HTML & CSS Quick Reference Guides;
 - Assignment Notes;
 - Technical Support;
 - The Open Awards Certificate.
- Introduction To The Internet;
 - A Short History Of The Internet;
 - Clients & Servers Explained;
 - The World Wide Web;
 - Accessing The Internet;
 - Web Browsers.
- Getting Started With HTML;
 - Tags & Attributes explained;
 - The HTML Document Structure;
 - Creating An HTML Document;
 - Frequently-Used HTML Tags;
 - A Sample Document;
 - Create Your First Web Page.
- Getting Started With CSS;
 - What Is A Cascading Style Sheet?
 - The Cascade In Simple Terms;
 - Introducing Style Rules;
 - Creating A Style Sheet;
 - Basic Styling Explained;
 - A Sample Style Sheet;
 - Create Your First Style Sheet.
- Getting Started With Graphic Design;
 - What Is Graphic Design?

- The Best Graphic Design Software;
- Free Graphic Design Software;
- Top Graphic Design Tips.
- Introduction To HTML Editors;
 - Text Editors;
 - “What You See Is What You Get” Editors;
 - “What You See Is What You Mean” Editors.
- Lesson Review & Quiz;
- Assignment 1 – HTML & CSS Exercises.

LESSON 2 – AN HTML PRIMER FOR BEGINNERS

- Headings, Paragraphs, & Sections;
 - <h1> To <h6> Heading Tags;
 - The <p> Paragraph Tag;
 - The
 Line Break Tag;
 - The <div> & Tags;
 - The <section> Tag;
 - A Working Example;
 - Now Try It Yourself.
- Introducing HTML Colours;
 - HTML Colour Names;
 - Hexadecimal Colour Coding;
 - Red Green Blue (RGB) Colour Coding;
 - Using A Colour Picker Tool;
 - Using The <style> Tag;
 - A Working Example;
 - Now Try It Yourself.
- Navigation With Hypertext Links;
 - What Is A Hypertext Link?
 - The <a> Anchor Tag;
 - The Target Attribute;
 - Inserting Text Links;
 - Inserting Image Links;
 - Inserting A Bookmark;
 - Local Links;
 - Link Colours;

- A Working Example;
- Now Try It Yourself.
- Graphics & Images;
 - The Image Tag;
 - Sizing An Image;
 - Sizing Units;
 - Inserting A Local Image;
 - Inserting A Remote Image;
 - Image Floating;
 - Creating Image Maps;
 - A Working Example;
 - Now Try It Yourself.
- Ordered & Unordered Lists;
 - Create An Ordered List With The Tag;
 - Create An Unordered List With The Tag;
 - Create A Description List With The <dl> Tag;
 - Styling A List;
 - Nested Lists;
 - A Working Example;
 - Now Try It Yourself.
- Introducing HTML Tables;
 - Defining An HTML Table With The <table> Tag;
 - Inserting Table Rows With The <tr> Tag;
 - Inserting Table Columns With The <th> and <td> Tags;
 - Spanning Rows & Columns;
 - Styling A Table;
 - A Working Example;
 - Now Try It Yourself.
- Simple HTML Forms;
 - Define An HTML Form With The <form> Tag;
 - Create Input Fields With The <input> Tag;
 - Text Boxes;
 - Radio Buttons;
 - Check Boxes;
 - Submit & Reset Buttons;
 - The Action & Method Attributes;
 - Submitting A Form;

- A Working Example;
- Now Try It Yourself.
- Lesson Review & Quiz;
- Assignment 2 – Create A “Contact” Web Page.

LESSON 3 - A CSS PRIMER FOR BEGINNERS

- Incorporating A Style Sheet;
 - Inline Styles;
 - Internal Styles;
 - External Styles;
 - A Working Example Of Each Method;
 - Now Try It Yourself.
- CSS Rules & Selectors;
 - CSS Rules Syntax;
 - Style Rules Precedence;
 - The Element Selector;
 - The Id Selector;
 - The Class Selector;
 - Grouping Selectors;
 - Selecting By Attribute;
 - Pseudo Elements & Classes;
 - Inserting CSS Comments;
 - A Working Example;
 - Now Try It Yourself.
- Incorporating Colour & Images;
 - Using CSS Colour Names;
 - CSS Hexadecimal Colour Coding;
 - CSS Red Green Blue (RGB) Colour Coding;
 - Text & Background Colours;
 - Background Images;
 - A Working Example;
 - Now Try It Yourself.
- Padding, Margins, & Borders;
 - Element “Boxes” Explained;
 - Padding Individual Sides;
 - Padding Shorthand;

- Margin Individual Sides;
- Margin Shorthand;
- Border Properties;
- Border Styles;
- Border Width & Colour;
- Border Individual Sides;
- Border Shorthand;
- Rounded Borders;
- A Working Example;
- Now Try It Yourself.
- Styling Text & Blocks;
 - Font Families, Size, & Colour;
 - Font Style, Weight, & Alignment;
 - Text Transformation;
 - Text Shadows;
 - Styling `<div>` & `` Blocks;
 - A Working Example;
 - Now Try It Yourself.
- Styling Lists & Tables;
 - Setting List Item Markers;
 - Using An Image As A List Marker;
 - Positioning The List Marker;
 - Styling Table Borders;
 - Setting Table Width & Height;
 - Vertical & Horizontal Alignment;
 - Using Table Padding & Colours;
 - A Working Example;
 - Now Try It Yourself.
- Styling Forms;
 - Styling Text Boxes;
 - Styling Textarea Boxes;
 - Styling Select Menus;
 - Styling Radio Buttons & Check Boxes;
 - Styling Buttons;
 - A Working Example;
 - Now Try It Yourself.
- Positioning Elements;

- Static Positioning;
- Relative Positioning;
- Fixed Positioning;
- Absolute Positioning;
- Overlapping Elements;
- Positioning Text In An Image;
- A Working Example;
- Now Try It Yourself.
- Lesson Review & Quiz;
- Assignment 3 – Add Styling To Your “Contact” Web Page.

LESSON 4 – CODE VALIDATION & DEBUGGING

- Common HTML & CSS Errors;
 - Unclosed Elements;
 - Badly Nested Elements;
 - Unclosed Attributes;
 - CSS Debugging Tips.
- HTML & CSS Document Validation;
 - Producing Well-Formed HTML & CSS;
 - W3C HTML Validation Website;
 - W3C CSS Validation Website.
 - The CSS Lint Code Quality Tool;
 - The Firebug Code Inspection & Debugging Tool.
- Avoid Cross-Browser Issues;
 - Include Normalize.css In Your Code;
 - What Normalize Achieves;
- Outline Your Elements;
 - The Web Developer Browser Extension;
 - What This Extension Achieves;
- Using Browser Development Tools;
 - The Console Log;
 - Internet Explorer & Edge Tools;
 - Chrome Tools;
 - Firefox Tools;
 - Opera Tools;
 - Safari Tools;

- Lesson Review & Quiz;
- Assignment 4 – Debugging Exercises.

LESSON 5 – INTRODUCTION TO WEB DESIGN

- Web Page Structure;
 - Why This Is Important?
 - Using A Grid Layout;
 - Using Templates;
 - Incorporate Quality Images;
 - The Importance Of Colour & White Space;
 - Using Headers & Footers;
- Include A Maximum Impact Landing Page;
 - First Impressions Count;
 - Know Your Audience;
 - Include Concise Content:
 - Describe what you offer;
 - The benefits of what you offer;
 - What differentiates you from your competitors;
 - Use strong bullet points;
 - Each section should have a distinctive title;
 - Include a “Call To Action”;
 - Make it short & sweet (E.g. “Register NOW!”);
 - Put it in a prominent position;
 - Make the link stand out;
 - Consider Including A Blog Or Newsletter;
 - Include Links to Social Media & Trade Associations;
 - Research Your Competitors’ Websites;
- Include Intuitive Site Navigation On Every Page;
- Choose Easy-To-Read Fonts;
 - What is your target audience?
 - Serif Or Sans Serif?
 - Carefully select your text font for readability;
 - Use a more distinctive font for headings;
 - Don’t use more than two fonts per page;
- Consider Including A Photo Gallery Or Slide Show;
- Incorporate Responsive Design Techniques;

- Use scalable sizing units such as %, em, and vw;
- Scaling Typography;
- Scaling Images & Backgrounds;
- Search Engine Optimisation;
 - Carefully Choose Your Keywords;
 - Include Important Keywords In Main Content;
 - The Importance Of Meta Data;
 - Always Use Alt Text For Images;
 - Foster Links To Your Site;
- Lesson Review & Quiz;
- Assignment 5 – Build Your Own Landing Page.

LESSON 6 – INCORPORATING MULTIMEDIA

- Introduction To Multimedia;
 - What Is Multimedia?
 - Guidelines For Use;
 - Native Multimedia Or Plug-Ins?
 - Advantages And Disadvantages;
 - Browser Support.
- Common Audio Formats;
 - Musical Instrument Digital Interface (.midi);
 - RealAudio (.ram);
 - Moving Pictures Expert Group MPEG-3 (.mpeg);
 - WAV (.wav);
 - Theora Ogg (.ogg);
 - Windows Media Audio (.wma);
 - Advance Audio Coding (.aac)
- Common Video Formats;
 - Moving Pictures Expert Group (.mpeg);
 - Moving Pictures Expert Group MPEG-4 (.mp4);
 - WebM (.webm);
 - Theora Ogg (.ogg);
 - Audio Video Interleave (.avi);
 - Windows Media Video (.wmv);
 - QuickTime (.mov);

- Flash (.swf);
- RealVideo (.ram)
- Inserting Audio With The <audio> Tag;
 - <audio> Tag Methods, Properties, & Events;
 - The <source> Tag;
 - A Working Example;
 - The Audio Player;
 - Now Try It Yourself;
- Inserting Video With The <video> Tag;
 - <video> Tag Methods, Properties, & Events;
 - The <source> Tag;
 - The <track> Tag;
 - A Working Example;
 - The Video Player Controls;
 - The Video Content;
 - Resizing The Player;
 - Now Try It Yourself.
- Animation;
 - When To Use Animation;
 - A Good Example;
 - A Bad Example;
 - Now Try It Yourself.
- Interactive Content;
 - What Is Interactive Content?
 - Advantages Of Interactive Web Pages;
 - Interactive Website Examples;
 - A Working Example;
 - Now Try It Yourself.
- Lesson Review & Quiz;
- Assignment 6 – Create An Audio/Video “Jukebox”.

LESSON 7 – INTRODUCING SPECIAL EFFECTS

- Text Effects;
 - Implementing Text Shadows;
 - Implementing Text Gradients;
 - Create A “Neon” Text Effect;

- Create A 3-D Text Effect;
- Create Embossed Text;
- Create Inset Text;
- Styling The First Letter;
- Text Transformations;
- A Working Example;
- Now Try It Yourself.
- Implementing Web fonts;
 - Types Of Font;
 - Google Fonts;
 - The @font-face CSS Rule;
 - A Working Example;
 - Now Try It Yourself.
- CSS Gradients;
 - Linear Gradients;
 - Repeating Linear Gradients;
 - Radial Gradients;
 - Repeating Radial Gradients;
 - A Working Example;
 - Now Try It Yourself.
- Box Sizing With CSS;
 - The “box-sizing” Property;
 - Controlling A Box’s Size;
 - Two bordered boxes side-by-side;
 - A Working Example;
 - Now Try It Yourself.
- Implementing Box Shadows;
 - Box Shadow Property Values;
 - Horizontal Shadows;
 - Vertical Shadows;
 - A Working Example;
 - Now Try It Yourself.
- Using Border Images;
 - Creating A Suitable Border Image;
 - The Border Image Property;
 - A Working Example;
 - Now Try It Yourself.

- Transitions & Transformations;
 - What Are Transitions?
 - Transition Properties;
 - A Working Example;
 - Two-Dimensional Transformations;
 - Three-Dimensional Transformations;
 - A Working Example;
 - Now Try It Yourself;
- Lesson Review & Quiz;
- Assignment 7 – Include Special Effects In Your Landing Page.

LESSON 8 – INTRODUCTION TO JAVASCRIPT

- Introduction;
 - What Is JavaScript?
 - What Is A Script?
 - The <script> Tag;
 - Code Positioning;
 - Reserved Words.
- JavaScript Variables & Simple Arithmetic;
 - Data Types & Naming Conventions;
 - Declaring A Variable;
 - Arithmetic Operators;
 - Assigning Values;
 - Increment & Decrement;
 - A Working Example;
 - Now Try It Yourself.
- Comparison & Logical Operations;
 - Comparing Values;
 - Logical Operators;
 - A Working Example;
 - Now Try It Yourself.
- Event Handlers;
 - Load & OnUnLoad Events;
 - OnClick Event;
 - OnFocus & OnBlur Events;
 - OnMouseOver Event;

- A Working Example;
- Now Try It Yourself.
- Conditional Branching;
 - The IF and IF ELSE Statements;
 - A Working Example;
 - Now Try It Yourself;
- Introduction To FOR Loops;
 - The FOR Loop Explained;
 - A Working Example;
 - Now Try It Yourself.
- A Scrolling Message & Random Advertising Display;
- Lesson Review & Quiz;
- Assignment 8 – Create A Photo Gallery.

LESSON 9 – INTRODUCTION TO THE HTML5 APIs

- What Is An API?
- The Geolocation API & Google Maps;
 - The Geolocation Object;
 - Getting The User's Current Position;
 - Handling Errors;
 - Displaying The Position In A Map;
 - A Working Example;
 - Now Try It Yourself.
- The Drag & Drop API;
 - A Working Example;
 - Making An Element Draggable;
 - Specifying What To Drag;
 - Specifying Where To Drop;
 - Action The Drop;
 - Now Try It Yourself.
- The Canvas API;
 - A Working Example;
 - The <canvas> Tag Explained;
 - The JavaScript Explained;
 - Now Try It Yourself.
- The Web Storage API;

- A Working Example;
- Explaining The Code;
- Now Try It Yourself.
- The History API;
 - Move Backwards & Forwards Through Your Browsing History;
 - Moving To A Specific Point;
 - Adding History Entries;
 - Modifying History Entries;
 - A Working Example;
 - Now Try It Yourself.
- Lesson Review & Quiz;
- Assignment 9 – Drag & Drop Exercise.

LESSON 10 – CREATING AN ONLINE STORE

- Before You Get Started;
 - Decide On Your Colour Scheme, Brand & Logo;
 - How Do You Attract Customers?
 - Should You Use PayPal?
 - Getting Your Domain Name;
 - Which UK Web Hosting Provider?
- Creating Your Own Store Front;
 - A Working Example;
 - Create A Products Page;
 - Integrate With A Shopping Cart;
 - JS Function To Save Order Data;
 - Save Data Using The Local Storage API.
 - A “Display Shopping Cart” Page;
 - JS Function To Retrieve Data;
 - Use The Local Storage API To Retrieve Order Data.
 - Create A Check Out Page;
 - JS Function To Retrieve Order Data;
 - Include Personal Details Form;
 - JS Function To Check Form Data;
 - Save Personal Details Using The Local Storage API.
 - Create An Order Confirmation Page;
 - JS Function To Retrieve Order & Form Details;

- Display Order & Form Details;
- JS Function To Send Order To Server.
- Store Building Software Products;
 - Shopify;
 - BigCommerce;
 - Weebly eCommerce;
 - Wix Drag & Drop Tools;
 - Squarespace;
 - BigCart;
 - Free Shopping Carts;
- Creating & Managing A Store With Wix;
 - Introduction and getting started;
 - Creating your Home page;
 - Modifying the Home page;
 - The “About Us” and Contact pages;
 - The Shop page;
 - Adding Products;
 - The shopping cart;
 - Publishing your website;
 - Try it yourself.
- Lesson Review & Quiz;
- Assignment 10 – Build Your Own Store Front.