Web Page Layouts

Project – practical

Overview

Now that you have completed an overview of planning, designing and constructing web page layouts using graphics editing tools and HTML/CSS, it's time to test what you've learnt! This project will assess your ability to:

- Cut up a provided website design into images as required to create an HTML/CSS layout of the website
- Create a functioning web page layout using HTML/CSS that matches the original provided website design sample as closely as possible
- Validate your HTML/CSS code to ensure that it is error-free
- Perform cross-browser testing on your web page layout to ensure it displays consistently across multiple browsers.
- Perform basic accessibility testing to ensure that your web page layout meets accessibility requirements.

You will be provided with a Fireworks document that matches the provided website design sample. You can use this original design file to export any images as needed in your HTML/CSS.

You are to make the web page as clean and functional as possible, using HTML5 elements where appropriate. You may need to use CSS3 techniques to recreate the web page according to the design provided.

You must document your web page testing, showing both your issues/errors and your solutions.

Units covered in this assessment

ICAWEB505A - Develop complex web page layouts

Assessment guidelines

- This project must be your own work, you may not get help from other students or teachers or duplicate other work already completed. You must write your own code.
- This is "open book", you may refer to previous examples of your own work. You may not, however, blatantly copy & paste code from a teacher-provided example (teachers totally recognise their own code).
- The project must be submitted as per the instructions given by your teacher by the due date/time.
- Unless otherwise arranged, late work will incur a penalty.
- You will be marked according to the marking scheme.

Instructions

Creating an HTML/CSS web page from your Fireworks design

You must create a web page layout in HTML & CSS that resembles (as closely as possible) the provided sample website design. You will be marked on how much of the website you can recreate, the cleanliness and appropriateness of your HTML markup, the cleanliness and appropriateness of your CSS styling and how similar your web page layout looks to the provided sample. It is your job to determine how to cut up your Fireworks document in order to create your HTML/CSS layout – including where to use background images & CSS3 techniques. Try to use appropriate HTML5 & CSS3 wherever possible to recreate the design.

Your web page will tested using Chrome (latest version), Firefox (latest version) and Internet Explorer (most likely version 8). Chrome and Firefox (being the latest versions) will natively supports the required HTML5/CSS3 features, but IE8 will not, so you may want to include Modernizr or html5shiv to get basic formatting happening. ***You will not be expected to make CSS3 techniques work in an old browser, you must only ensure that your design is not completely broken in an older browser (IE8).***

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You have been provided with a high-quality sample of the website design (*10335_WebPageLayouts_Project.jpg*) and a native Fireworks document with layers in it (*10335_WebPageLayouts_Project.fw.png*) to use to accurately recreate the web page layout.

The sample website design shows 100px extra space on both the left and right of the design. This space only exists to demonstrate which areas of the website stretch out to fit the boundaries of the browser window and which areas are confined to a specific width.

All fonts should be Arial, Arial Black or Courier. Choose the most appropriate fonts from this list throughout your design to match the sample.

Testing your web page

You must also apply basic testing on your web page and document the results. You need to create a single document that outlines the various tests, initial results from running the tests, a summary of the "fix work" you did to fix problems shown by the tests and the final results from running the tests (hopefully showing no problems). The following testing must be done and documented.

HTML/CSS validation – you must use the W3C validation tools to validate your HTML/CSS to ensure that your markup and styling code is clean and correct. This will help with cross-browser accessibility.

Cross-browser testing – you must test your web page in 5 or more browsers (you can use a variety of browsers and operating system combinations) and document the differences in how your web page is displayed and operates across them. You must include screenshots of your web page in the different browsers and a written summary of how they appear differently.

Accessibility testing – you must also do some basic accessibility testing and document the results. Document your web page's results from a Web Content Accessibility Guidelines (WCAG) evaluation tool – make sure you show any errors and how you fixed them (you don't need to worry about the warnings if they are too specific/obscure). You also need to write a paragraph outlining some other (hypothetical) potential accessibility issues you could face with your website and how you could address those issues.

Marking scheme

Each section is worth 5 marks. The marks will be allocated as follows:

0	Not implemented or not submitted
1-2	Implemented but with a large portion missing or not working
3-4	Implemented but with a minor portion missing or not working
5	Implemented to a professional, error-free standard

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Task	Notes	Max Marks
Overall professionalism		
Website files organised and naming conventions are consistent throughout website	Resources such as images, CSS, etc are in appropriate folders.	5
Testing documentation is done in a professional format	Use appropriate structure/headings/formatting to document your web page testing for HTML/CSS validation, cross-browser viewing and basic accessibility testing.	5
Project is submitted on time		5
Content is accurate and error-free	Apart from differences in "lorem ipsum" text, the content must match the sample provided. Proper spelling & grammar throughout the project is expected.	5
	Total:	***20***
Markup (HTML)		
Website is broken into appropriate blocks, overall layout is clear	You should be able to tell the overall structure of the web page layout from looking at the markup.	5
HTML elements (inc. HTML5) are used appropriately	HTML elements should provide meaning to their content – e.g. an h1 element should only be used for the one-and-only highest level heading on the page; an article element should represent an "article" of content on a page. Note: remember to include at least one "a" element appropriately in the website.	5
IDs and classes are applied appropriately		5
	Total:	***15***
Styling (CSS)		
CSS is located in an external stylesheet and is linked correctly		5
CSS selectors are used appropriately	Rules are targeted at appropriate HTML elements in an efficient way.	5
CSS rules/properties (inc. CSS3) are used appropriately		5
	Total:	***15***
Overall appearance	Tested in an up-to-date version of Chrome primarily. IE does not need to be supported.	
Website structure/blocks accurate	Overall structure	5
Container elements accurate	Content containers are styled accurately – background effects, sizing, borders, etc	5
Content/text styling accurate	Content is styled accurately – colours, fonts, effects, etc	5
Overall look and feel of finished product matches sample		5
	Total:	***20***

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Task	Notes	Max Marks
Testing		
Markup is valid	No errors such as missing DOCTYPE, unclosed tags, etc	5
CSS is valid	No errors such as missing brackets/clons/semi-colons, incorrect properties, etc	5
Browser screenshots	Browser screenshots are documented showing the web page in 5 or more browsers	5
Cross-browser differences documented	Differences between browsers are documented (written in document) to accompany the screenshots. Outline what can be done to fix incompatibilities if appropriate.	5
WCAG evaluation results	Results from a WCAG evaluation tool are documented	5
Potential accessibility issues documented	Potential accessibility issues are listed and discussed, with solutions being provided	5
	Total:	***30***
	Grand Total:	**100**

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