Learning About HTML5 and Web Development: The New Phase in Cutting Edge Programming

Monday- Friday, August 8- 12, 2011

Class meets at the University of California, San Diego from 8:30am - 3:00pm.

Course Overview

This course is an introduction to web development technologies, through HTML5 and CSS. HTML5 is the latest major revision to HTML and is changing our understanding of the web. Students will learn how to build quality web pages using the latest technologies, and will come to understand how new technologies are affecting content on the web. This course is designed to give students a fundamental understanding of web design and development, enabling students to become proficient in the basic skills required to create their own website.

This course is taught using classroom and lab instruction employing lecture and demonstration, in-class exercises, student participation, and class activities leading to a final project. Classes will include introductory concept presentations, followed by in-class exercises.


Find out more about HTML5 through Apple’s HTML5 showcase: http://www.apple.com/html5/

Course Goals and Learning Objectives

Students will leave this course having acquired knowledge of web development fundamentals, basic knowledge of HTML5, and cascading style sheets (CSS). They will be introduced to rich media and simple animations by building an organized website for appropriate usability.

Methods of Instruction

This class is designed in an interactive spirit that will give students the chance to design, create and script their own ideas. This course will be taught in a computer lab and will be taught using prepared examples that will be presented to the students. Afterwards, each student will apply the methods learned directly to their projects.

Reading
The course will be primarily based on a variety of free handouts and online readings, but the following are recommended:

ʻDive into HTML5ʼ by Mark Pilgrim. Freely available online: http://diveintohtml5.org/


Topics to be Covered During the Week

Module 1:

1- Introduction to web development
2- Web evolution
3- Introducing html5
4- Html page structure
5- Introducing and using different tags
6- Introducing structural tags
7- Introducing website structures
8- Create a simple Html page

Module 2:

1- Introducing image tags
2- Inserting images in the page
3- Creating multiple pages
4- Creating links between various pages
5- Creating and managing lists
6- Creating a menu

Module 3-4:

Creating an HTML5 web site using the acquired knowledge

Module 5-6-7:

1- Introducing CSS
2- CSS basics
3- Linking CSS to HTML using selectors
4- Using colors
5- Managing layout
6- Managing backgrounds
7- Managing typography

Module 8-9:

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1- Managing links
2- Managing rollovers
3- Menu bars
4- Floating columns
5- Students customize and further develop the websites created in last activity

Module 10:

Final presentation and uploading websites online

Instructor: Toni Rouhana, Fab Lab San Diego

Prerequisites:

- Must be a current high school student in grade 9–12.
- No previous programming experience is required.

UCSD Extension will provide three-quarter units to interested students who meet participation and course requirements.

Course fee: $195.00
Registration deadline: May 28, 2011. Space is limited.

If you have any questions regarding this workshop or the application process, please contact Ange Mason via phone at 858 534-5064 or via email at amason@ucsd.edu.