



JavaScript, PHP,  
XHTML, CSS, DOM,  
AJAX, ...

## Course Description

For students familiar with HTML and CSS: learn to use JavaScript and PHP to add dynamic effects to web pages. After a brief overview of scripting languages such as ActionScript (for Flash), Perl, AppleScript, Bash (for command line automation), Tk/Tcl, Ruby, and Python, we'll dive into developing projects that use JavaScript for managing events, content, and presentation in the user's web browser. We'll also work with server-side scripting PHP for generating dynamic content. By the end of the course you will have experience creating dynamic web pages using the technologies that are driving web design today: buzzwords like "AJAX" and "Web 2.0" will slip into your resumé like old friends!

## Administrivia

CS-90.3 3 hr., 3 cr. Section E5TBA; Registration Code 3422.

Tuesdays and Thursdays from 5:00 to 6:15 p.m. Room SB B-141.

**Prerequisites:** Experience with (X)HTML and CSS equivalent to CS-081, or permission of the instructor.

**Course Web Site:** [http://babbage.cs.qc.edu/courses/cs090.3/2008\\_09](http://babbage.cs.qc.edu/courses/cs090.3/2008_09)

## Textbook

*Simply JavaScript* by Kevin Yank and Cameron Adams. SitePoint Pty. Ltd., 2007. ISBN 978-0-9802858-0-2. You can download a PDF copy of the first 3 chapters (over 100 pages) for free from [www.sitepoint.com](http://www.sitepoint.com). You can buy the book either directly from SitePoint, from any online bookstore, or through the college bookstore. If you are wondering what the course will be like, download and take a look at the first chapter of the textbook.

There is no required textbook for the PHP section of the course, but there is very good documentation for the language on the web at <http://www.php.net/manual/en/>. There are lots of introductory books on PHP available; if you decide to get one, be sure it covers PHP 5, as that is the version we will be working with. One that I can recommend is another Kevin Yank book from SitePoint: *Build Your Own Database Driven Website Using PHP and MYSQL*. The book is not required because much of it deals with relational databases, which we will not be working with in this course.

## Laboratory Facilities

Each student in the course will have an account for the laboratory computers in rooms A-205 and A-227 in the Computer Science Department. All assignments will be submitted from the laboratory, but it will be possible to prepare your projects using some other computer and then transferring your work to the laboratory. Laboratory accounts can be accessed from off campus using a broadband internet connection.

The laboratory computers run the Microsoft Windows XP operating system; the Apache web server with PHP; and the Internet Explorer, Firefox, Safari, and Opera web browsers. Except for Microsoft Windows and Internet Explorer, all software listed is available for free and can be installed on Macintosh or other Unix systems (including Linux) for working outside the lab.

The Laboratory computers also run *Dreamweaver*, the industry-standard tool for web design. If you work outside the lab, you will have to provide your own tools for editing and managing your web, style-sheet, and script pages; there are several good free ones available for all platforms.

## Instructor

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