Computer Science 100 Web Programming

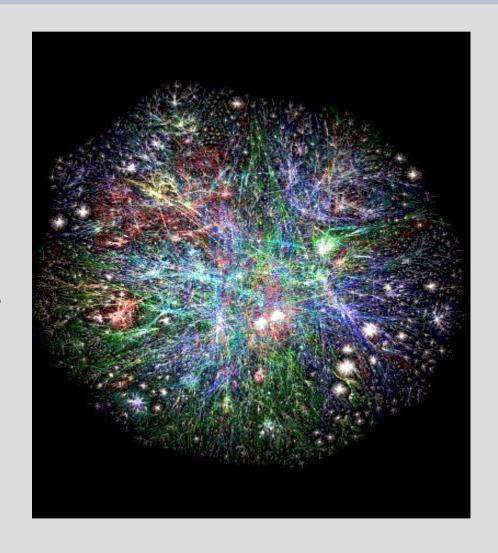
Web Programming in a Nutshell

Outline

- The Web
- Short History and Highlights
 - Beginnings @ CERN
 - The Browser Wars
 - The W3C
 - Web 1.0, Web 2.0 and Web 3.0
- "Components" of Web Programming

The World Wide Web

- Aka The Web
- System of interlinked hypertext documents (or hypermedia) contained in the Internet.
- A document in the Web is called a web page.
- Group of related web pages
 OR a single location in the
 Internet where web pages
 can be accessed from is a
 web site.

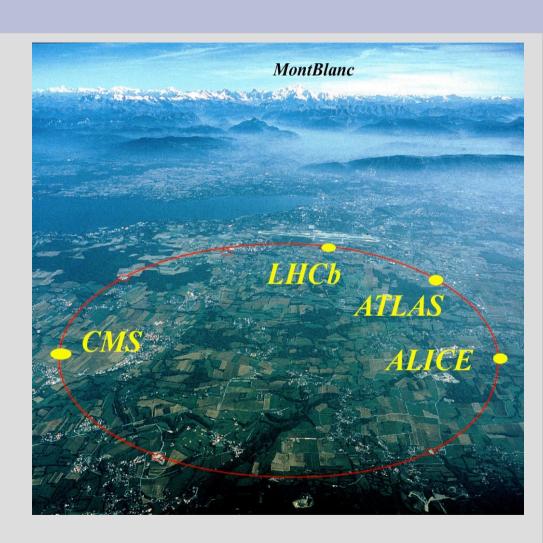


The World Wide Web: Web Pages

- A Web page may contain:
 - Text
 - Images
 - Embedded objects: videos, audio, binaries (i.e. Java applets, Flash)
 - Tables
 - Hyperlinks
- By default a web page is a page written using Hypertext Markup Language (HTML)

The World Wide Web: CERN

- The Birthplace of the Web
- Organisation Européenne pour la Recherche Nucléaire (French)
- European Organization for Nuclear Research



The World Wide Web

- Tim Berners-Lee, English physicist, creator of the World Wide Web (1989)
 - First web server
 - First browser (WorldWideWeb)
 - Director of the W3C
- Read:
 - http://www.w3.org/History/1989/proposal.html
 - The original proposal for the WWW.



WWW Timeline

- 1989 The World Wide Web begins at CERN.
- 1990 Web server and web browser created.
- Aug 6, 1991 Marked as the day the Web became a publicly available service.
- 1993 NCSA releases Mosaic a multiplatform web browser precursor to Netscape Navigator. Other browsers also released.
 - June 1993 Stylesheets proposed for HTML
 - October 1993 CERN announces WWW would be free.
- 1994 Netscape Navigator, Opera browsers released.
- 1995 Internet Explorer released
 - Javascript integrated.
 - The First Browser War starts!

The Browser Wars

- Metaphorical war, fight for market dominance of the popular web browsers.
- The war in short:
 - 1st Browser War: IE wins over Netscape*
 - 2nd Browser War:
 Netscape releases
 source code (Firefox)
 - 2008-Present : Google etc., joins the fray.



The Browser Wars

- Competition is always good.
- Better browsers.
 - Web browsers are the web programmer's application user interface platforms.
- Negative side effects of the 1st Browser War
 - Each contender came out with their own "HTML tags" leading to the non-standardization of HTML.

The W3C

- The World Wide Web Consortium
- Founded October, 1994
- Headed by Tim Berners-Lee
- Develop standards for the Web
- http://www.w3.org/



Other Highlights: The DotCom Bubble: Boom and Burst

- From 1995 to 2001
- Marked by the increase in Internet users (thanks to the web).
- Increase in "Internet startups" (refered to as dot coms) offering services through the Internet (Web).
- Triggered a mild economic repression in 2000.

Other Highlights: Web 1.0, 2.0 and 3.0

Web 2.0:

- This "versioning" of the web is unofficial.
- Associated with web applications which facilitate interactive information sharing, interoperability, user-centered design and collaboration.
- Popularized in 2004 by Tim O'Reilly
- Coined in 1999 by Darcy DiNucci in an article.
- Allows users to run "software applications" via the web browser.

Web 1.0

- Had to be coined because of the above.
- Web 3.0 Semantic Web
 - Advanced application of the WWW.

Your Assignment:

What are WEB APPLICATIONS?

- List down web applications that you use/have used/will use and their types. (at least 5)
- What do you need to create a web application?
- How is a web application different from a desktop application?

Email your answers to uplbcmscexercises@gmail.com on or before Tuesday, November 22, 2011, 12:00 am. Use "CMSC 100 Web App Assign" as the subject of your email.