

# CSC309F

## Programming on the Web

Prof. Penny

W10:30-11:30, Bahen 5227

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# Course Goals

- Understand concepts and principles underlying Web technology
  - You will understand what's going on behind the scenes.
  - You won't need to practice hit & miss programming.

# Course Topics

- Static Client Content
  - Unicode, XML, CSS, XHTML, XSL, <IMG>
- Dynamic Client Content
  - Forms, JavaScript, DOM, Java Applets
- Dynamic Server Content
  - Perl CGI, Java Servlets, RDBMS via Servlet JDBC
- Operational Concepts
  - Networks, protocols, web servers, security
- Guest Lecture
  - TBA

# Minimum Preparation

- CSC270, CSC209, CSC228
  - Java, systems programming, file structures, make, scripts, some degree of maturity in programming
- No prior knowledge of Web technologies is assumed.
  - Although we will move quickly so anything you already know will be an asset

# W3C: World Wide Web Consortium

- W3C is the repository for most of the standards documents we will be using.
- Available on the web @ <http://www.w3.org>
- These are the best and final source for all information
  - You must learn your way around the W3C and learn to use the documents effectively.
- Books are helpful to provide more examples or to clarify certain points

# Recommended Books

- "Programming the World Wide Web",  
1st Edition, Robert Sebesta,  
Addison-Wesley, 2002
- Reference: Various O'Reilly books
  - Dynamic HTML: The Definitive Reference
  - XSLT
  - Perl in a Nutshell
  - Java Servlet Programming
  - Database Programming with JDBC and Java

# Evaluation

- programming assignments
  - 3 of them
    - ass1 (15%): Client-Side
    - ass2 (20%): CGI Server Side
    - ass3 (25%): Java Servlets and RDBMS
  - They must work when the TA tries them out!
    - Your responsibility to test TA deployment scenario completely. No excuses. TAs won't debug.
  - Late Policy: due Friday during tutorial.
    - Monday lecture -15%
    - Wednesday lecture -30%
    - not accepted after that.
- 1 final exam (40%)

# Technology

- Must hand-in assignments on the CDF Linux facility (Netscape 7.00 [probably])
- Can do all work on that facility
- Can work at home as well
  - pro:
    - convenient
    - good experience
  - con
    - additional setup
    - extra work to install onto CDF and ensure everything works properly in that environment - NO EXCUSES!

# Tutorial

- First tutorial will be Sep.20
  - I will post room assignments on the Web page