

# CSE 154

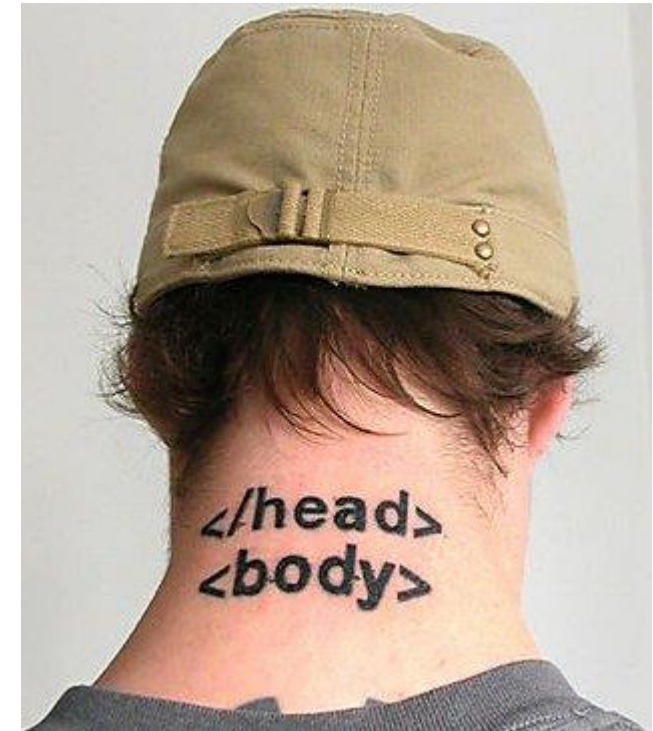
LECTURE 27: WHAT'S NEXT



# Congratulations!

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- You now know more than the average web developer. (Really!)
- You know an introductory amount about many topics/languages
- You're capable of teaching yourself more...



# Learn more about HTML5

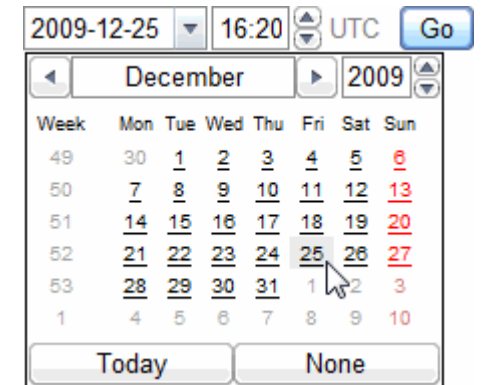
- semantic tags: nav, aside, header, footer, section, aside, article
- **Forms 2.0**: sliders, search bars, color/number/email/url/date/time, placeholders, ...



- **audio** and video tags for embedding multimedia

```
<video src="video.ogv" width="425" height="350"></video>
```

- **canvas** tag for drawing 2D shapes in HTML/JS (like DrawingPanel) (ref [1](#), [2](#), [3](#))



# Learn more about HTML5, continued

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- [semantic web](#) / [microdata](#) **attributes**: rel="...", itemscope, itemtype, itemprop

[About Mark Pilgrim](#)

Anytown PA - Developer advocate - Google, Inc.

Excerpt from the page will show up here.

[diveintohtml5.org/examples/person-plus-microdata.html](#) - [Cached](#)

- **accessibility** features ("[ARIA](#)")
- embedding of rich XML-like formats such as [SVG](#) vector graphics
- other stuff: offline apps, [geolocation](#), cross-document messaging, MIME type registration, history management, ...



# Learn more about CSS3

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- new **selectors**: `nth-child`, `inline-block`, `:not`, +
- ability to **embed fonts** in a page (*yay*)
- easy built-in support for **multi-column layouts**

**T**his page demonstrates **CSS3** multi-columns, rounded corners, text & box shadows, HSL/HSLA colour selection, `nth-*`

be floated or positioned ([Bug 238072](#)). Column text flow is much improved and border-radius is now antialiased.

of the CSS2 or CSS3 specifically tested. Lack of support for `position:fixed` and PNG alpha transparency renders the header and footer

- transparency/**opacity**, color **gradients**, **shadows**
- **animations** and transitions (like Scriptaculous)
- affine **transformations** (scaling, rotation, perspective)



# Learn more about JavaScript

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- [JavaScript objects/OOP](#); [JS form validation](#); [more JS syntax](#)
- JS libraries such as [jQuery](#) or [Yahoo! UI \(YUI\)](#)
- JS site frameworks such as [Backbone.js](#) or [Twitter Bootstrap](#)
- [Yahoo! web developer videos](#) featuring Douglas Crockford
- JS on the server, such as [Node.js](#)



# Learn more about other topics

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- [Web design and usability](#)
- [PHP objects/OOP](#)
- PHP web frameworks such as [Zend](#), [CakePHP](#)
- [Supplemental book chapters](#) on [Taking a web site "live"](#), Database Design, IE Hacks
- Macromedia Flash: [tutorial 1](#), [tutorial 2](#), [tutorial 3](#)
- server-side web programming in Java
  - JSP / servlets ([#1](#), [#2](#)), applets ([#1](#), [#2](#))

# Courses to take

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- [CSE 143](#) - learn more about structuring data and algorithms (if you haven't taken it yet!)
- INFO [343](#) / [344](#) / [340](#) - web design, web tools/development, databases
- ENTRE 475/476 - business aspects of web development
- [CSE 403](#) - software engineering (large software projects)
- [CSE 452](#) - distributed systems
- [CSE 498/499](#) - senior capstones and project courses



# Revisiting past homework assignments

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- come up with **your own web project** and build it (anything!)
- create a **personal web site** with info about you, your resume, etc.
- try writing extensions to the assignments from this course:
  - HW1-3: Pick other web sites and try to mimic them
  - HW4: implement persistent dating data, uploading of images, a login system, cookies/localStorage
  - HW5: add use Scriptaculous/jQuery to add effects; save to-do items using Ajax
  - HW6: implement the real 6 degrees of Kevin Bacon as seen at [oracleofbacon](#)
  - HW7: write code to read/write ASCII art to the server using Ajax
  - HW8: use Scriptaculous/jQuery to add effects and animate the tiles
  - HW9: write the PHP that reads data from OpenWeatherMap and feeds XML/JSON to a client
- make your assignments compatible w/ IE, Opera, Safari, etc.
- go back and look at the "extra session" notes

# Sharing your work with others

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- show off your awesome programs to your friends!
- put your web dev skillz (and links to your programs) on your resume!
- [set up your UW web space](#)
- your UW web site will be at `http://students.washington.edu/YOUR_UWNETID`
- Suggestion: put this line at the top of your PHP code:

```
<?php
error_reporting(E_ALL);    # makes UW server show error messages
...
```

PHP

# Protecting web resources

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- **Please don't post your HW solutions on the web unprotected!**  
(we want to be able to assign some of these programs again)
- posting resources with a shared password:
  - create files named `.htaccess` and `.htpasswd` with proper contents and put them in your HW root folder on UW
  - doesn't require a UW NetID
  - can give password to friends / family / employers

# Example htaccess, htpasswd files

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## .htaccess :

```
AuthUserFile full/path/to/.htpasswd
AuthName "Restricted Access"
AuthType Basic
require user username
```

## .htpasswd :

```
username:encryptedPassword
```

- place these files in the top folder of the content you want to protect
- [htpasswd generator](#) (gives you the text to copy-paste into your .htpasswd file)
- or from \*nix terminal: `htpasswd -c .htpasswd username`

# MySQL on UW

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- [How to use MySQL on UW](#)
- download our databases: [simpsons.sql](#), [world.sql](#), [imdb\\_small.sql](#), [imdb.sql](#)
- importing a database into MySQL from a file:
  - upload one of the above .sql files to your UW space
  - open an SSH terminal window on UW server and type:
- `mysql -u username -p databaseName < filename.sql`
- exporting a database from MySQL to a .sql file:`mysqldump -u username -p databaseName > filename.sql`

# Setting up your own web server

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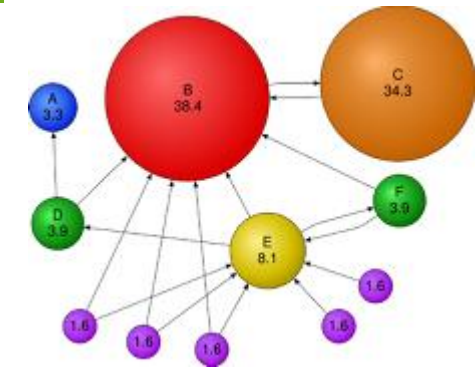
- why?
  - test your web apps locally without needing to upload them to Dante
  - host your own projects from your house and connect to them
  - other useful services: SSH, VNC, SMB (Samba), CVS, ...
- how?
  - Linux: [Linux \(LAMP\) server tutorial](#)
  - Windows: [XAMPP server software download](#)
  - getting the helpful orange PHP error messages: [Xdebug](#)

# Taking a web site "live"

- buy your own domain name (e.g. allisonobourn.com): [DreamHost](#)
- learn about (stalk) your users with [Google Analytics](#)

<a href="#">Top search queries</a>	<a href="#">Average top position</a>
1. <a href="#">cellarspot</a>	1
2. <a href="#">henri boillot</a>	11
3. <a href="#">bossi siena</a>	1
4. <a href="#">les charmes chardonnay</a>	2

- improve your page / improve [PageRank](#): [SEO](#), [meta tags](#)
- make a few bucks with ads: [Google AdSense](#)
- get the word out: [Google AdWords](#), [Webmaster Tools](#)



**Google**

Web Personalized Results 1 - 10 of about 407,000 for **marty stepp**. (0.11 seconds)

[Looking for Marty Stepp?](#) Sponsored Link  
cs.arizona.edu/~stepp/ He sure is the cutest purple cow I've ever seen.

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