Web Programming Step by Step

Lecture 28
What's Next?
Reading: Ch. 13

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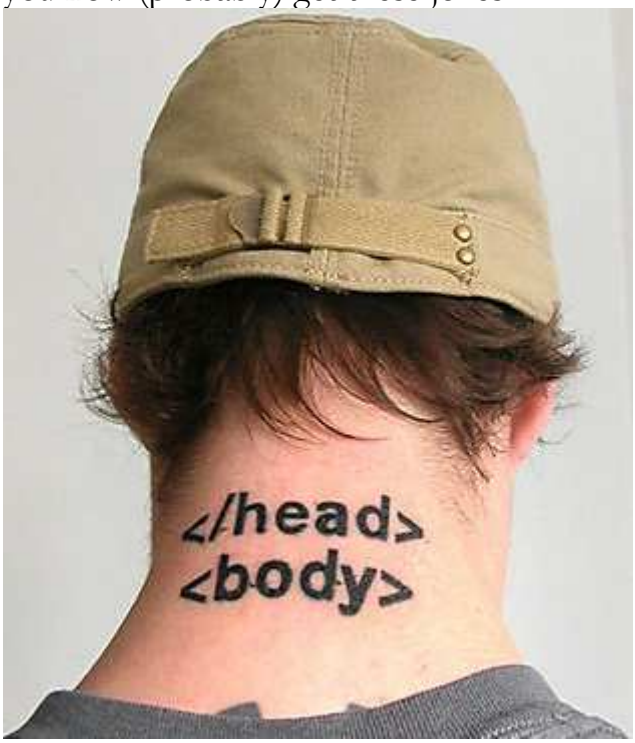
We've come so far...

- web programming is now in your blood
- you now (probably) get these jokes:



DELETE COOKIES?!
gegen-den-strich.com
FERNANDEZ

Sharing your work with others

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

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

Protecting web resources

- 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 Dante
  - doesn't require a UW NetID
  - can give password to friends / family / employers

Example `htaccess`, `htpasswd` files

`.htaccess:`

```
AuthUserFile .htpasswd
AuthGroupFile /dev/null
AuthName EnterPassword
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)

Getting Ajax to work

- Ajax (`XMLHttpRequest`, `Ajax.Request`) can only connect to the same server as where your .html and .js files are located
- If you put your work up on Dante, your Ajax code will be unable to reach Webster!
- Solution: Put proxy.php in the same folder as your Dante code, and change any Ajax URLs
  - from: `http://webster.cs.washington.edu/`*`dir`*`/`*`file.ext`*
  - to: **`proxy.php?url=`**`http://webster.cs.washington.edu/`*`dir`*`/`*`file.ext`*

MySQL on dante

- How to install MySQL on Dante
- 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 Dante space
  - open an SSH terminal window on Dante 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

- 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: Ubuntu (LAMP) server tutorial
  - Windows: Apache (WAMP) tutorial; IIS tutorial

Revisiting past homework assignments

- extensions to the assignments from this course:
  - HW1,2: Pick other web sites and try to mimic them
  - HW4: implement persistent dating data, uploading of images, a login system
  - HW5: rewrite the `gallery.js` functionality yourself using Ajax
  - HW6: use Scriptaculous to add effects and animate the movement of the tiles
  - HW7: write the PHP that reads `names.txt` and feeds XML to client
  - HW9: implement the real 6 degrees of Kevin Bacon as seen at oracleofbacon
- make your assignments compatible w/ IE6, Opera, Safari, etc.
- complete the extra features you didn't have time for during the quarter
- go back and look at the Ruby lecture notes; try some of the programs

Further Learning

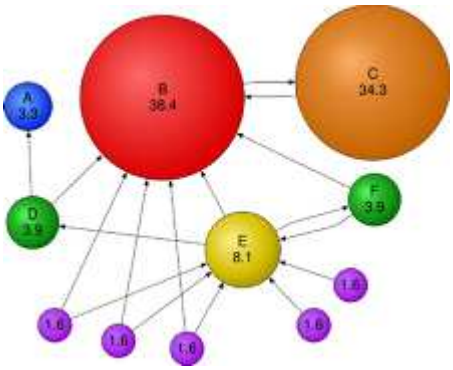
- Yahoo! web developer videos
- more Javascript
  - learn to write classes/objects in Javascript (tutorial #1, #2)
  - learn other JS libraries such as Google Ajax Search API (slides), Yahoo! UI, or jQuery
- topics we didn't have time to cover:
  - Web design and usability
  - Going "live", making a real web site with your own domain name
  - Embedding multimedia content (old HW assignment) (resources)
  - Macromedia Flash: tutorial 1, tutorial 2, tutorial 3
- server-side web programming in Java
  - JSP / servlets (#1, #2)
  - applets (#1, #2)

Courses you can/should take

- CSE 143 - learn more about structuring data and algorithms (if you haven't taken it yet!)
- CSE 403 - software engineering (large software projects)
- CSE 490H - distributed systems
- CSE 498/499 - senior capstones and project courses
- INFO 343/344 - web design, web tools/development
- ENTRE 475/476 - business aspects of web development

Taking a web site "live"

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



Top search queries	Average top position
1. cellarspot	1
2. henri boillot	11
3. bossi siena	1
4. les charmes chardonnay	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 marty stepp Search

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.