

Final Exam Review

CSE 190 M – Spring 2011
Morgan Doocy

About the Exam

- Thursday, June 9 from 8:30–10:20am in usual lecture room (GUG 220)
- Can bring books, notes, and everything **but** previous or sample exams
- Bring Husky Card or alternate photo ID!

Exam Topics

- HTML, CSS
- JavaScript, DOM, Prototype
- PHP
- Ajax, XML, XML DOM
- MySQL

Topics *Not* Covered

- Basic internet stuff
- Regular expressions (you may use them, but no problem will require them)
- Sessions and cookies
- Web security
- Scriptaculous
- HTML5, CSS3, JS5

Possible Problem Types

1. HTML/CSS Interpretation
2. HTML/CSS Coding
3. PHP: form processing or web service
4. Event-driven JavaScript with DOM manipulation
5. JavaScript with Ajax/XML and DOM manipulation
6. Building a MySQL query
7. PHP with MySQL query and HTML table output

I. HTML/CSS Interpretation

- “Be the browser” — draw (roughly accurately) the browser’s rendering of HTML & CSS code
- Tests your understanding of:
 - Block vs. inline elements
 - What IDs and classes do
 - The box model
 - Floating and positioning
- Be familiar with units of measure (roughly)

2. HTML/CSS Coding

- “How would you code this?” — from a screenshot and written specs, write the HTML/CSS to reproduce it
- Tests your understanding of:
 - Appropriate HTML tag choice
 - Appropriate use of classes and IDs
 - The box model
 - Floating and positioning, reproducing layouts

3. PHP/web services

- Know how to:
 - Make use of parameters, and check whether they've been passed
 - Differentiate between GET and POST requests
 - Handle form data
 - Read/write files, get filenames, and check whether files exist
 - Output HTML, plain text, or XML
 - Produce headers and/or HTTP error codes (maybe)

4. Event-driven JavaScript + DOM manipulation

- Reading/writing data on-screen:
 - Form controls
 - Text injection
 - HTML element creation/injection
- Getting and setting styles/classes/IDs
- DOM parent/child/sibling navigation
- Fetching elements on the page using \$, \$\$
- Know how to use Prototype!

5. JavaScript with Ajax/XML

- Making an Ajax request to a web service with parameters
- Extracting data from the XML response
- Creating and injecting HTML elements into the page
- Know how to use the XML DOM:
 - `getElementsByTagName()`
 - Parent/child/sibling properties
 - No Prototype functions!

6. MySQL Querying

- Know how to use JOINS!
 - Queries will be multi-table, probably requiring several JOIN operations and a few WHERE clauses
- DISTINCT
- ORDER BY
- Aliases (AS)

6. PHP + MySQL

- Connecting to a MySQL server and querying a database through PHP
- Outputting the results in HTML (probably in a table format)
- Parameterizing the query using a PHP parameter?