**The final is Monday, December 14th, 5:15-7:15pm**

The test is over the material that was covered the first half of the semester (Chapters 1 - 6) as well as the material covered the second half of the semester (Chapters 9, 10, 13 and 15) as well as jQuery, Ruby and NodeJS, which is not a chapter in the book. Look over the slides and examples.

**Topic List**

* Fundamentals (Protocols, MIME)
* HTML: basic syntax, document structure, text markup, images, links, lists, tables, forms.
* Creating CSS: levels, selectors and the Box Model
* JavaScript Basics: main features, syntax, primitives/operations/expressions, statements, object creation, global variables.
* JavaScript Execution Environment: phases of DOM/DOM2, events and event handling, handling events from different elements (buttons, submit button, textboxes).
* Dynamic Documents with JavaScript:
* jQuery: Basics, What is it, Purpose, Document Ready
* Intro to PHP: Basics, modes, four scalar types, array basics, PHP state management techniques
* Intro to AJAX: Purpose, understand the client/server interaction, what structures are used to transfer data
* Database Access through the Web: Basic operations of Relational databases, Basics of how PHP interacts with MySQL
* Intro to Ruby: Basics of the Ruby programming language
* Intro to Rails: One question on Rails covered as part of the Intro to Ruby lecture
* NodeJS: Basics of the NodeJS language and runtime environment (NPM)

There will be two types of questions from the **Topic List.**

1. **Short answer**
2. **Fill in the blank**