

# Hypermedia and the Web

May 21, 2003

## Exam #2 Knowledge Areas and Possible Questions

The second exam will be open-book, open-note. Any computational device capable of running a Web browser, XML parser, CSS parser, or XPath/XSLT processor is not permitted.

- Advantages/disadvantages of XML parsing styles (SAX, DOM)
- Understanding of XML parsing in SAX and DOM styles using Java/Xerces
  - A question might add some additional code to the Lab #1 answer, and then ask you what it does.
- Understand the effect of medium-complexity CSS specifications for HTML
  - Multiple font, color, alignment properties, affecting multiple tags, including use of ID and CLASS, simple cascading, linking CSS description to HTML file, no pseudo-classes, no CSS2 only features, no tables
- Write simple CSS specifications, given a problem description
- Understand medium complexity UML structure diagrams, and create simple UML structure diagrams (only one or two relationship types, small # of classes)
- Given an HTTP request/response sequence, be able to identify:
  - If the request was successful or unsuccessful
  - The kind of request (the HTTP method)
  - When the message was created, what client/server sent the message
- Understanding of session tracking using Java/Tomcat
  - A question might modify the answer to lab #3 and then ask you what it does
- Understand the difference between a resource and a URI/URL/URN
- Discuss the impact browser version handling has on Web development
- Understand and create medium complexity XPath expressions
- Understand simple XSLT transforms

### Extra credit questions

- Possibly some complex and/or tricky CSS/XPath/XSLT questions