Wednesday

XML - extensible markup language

Xml root tag
- The tag that surrounds all other tags

SAX Parsing -
- Simple API for XML parsing
- Reads in order and can't go back without rereading everything
- Cannot edit the document

DOM Parsing
- Document Object Model
- Reads all at once and creates the DOM
- Advantages
  - Can edit the DOM
  - Faster Random access
- Disadvangages
  - Cost a lot of memory

Valid
- Well Formed - the syntax is correct
  - Each open tag has a close tag
  - Tags are properly nested
  - EX:

    Above is valid, below is not
    <first>
        <second>
    </first>
        </second>
- Follows a schema
  - DTD - document type definition
    - Written in unique syntax held over from SGML
  - XSD - xml schema definiton
    - Written in xml

Servlets - API for handling requests and responses

Web container -
- controls lifecycle of servlets
- Controls routing

Web.xml - deployment descriptor
- Routers requests to servlets

Servlet Lifecycle
- 1st normal java stuff
  - Load class
  - Instantiate object
- 2ns servlet methods
  - Initialize - calls init method once
  - Call service method for every request
  - Call destroy method to destroy servlet

Servlet config - config info for a specific servlet
Servlet context - info for all servlets

Load-on-startup