WebClient
- Given HTTP request
- Display HTTP response

HTTP Response Example
HTTP/1.1 200 OK
Content-Type: text/html;charset=ISO-8859-1
Content-Length: 168
Date: Sun, 03 Oct 2004 18:26:57 GMT
Server: Apache-Coyote/1.1

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html><head><title>Servlet Life Cycle</title></head>
<body>
    n is 299 and m is 440
</body>
</html>

Common Status Codes
- 404 (Not Found)
- 403 (Forbidden)
- 401 (Unauthorized)
- 200 (OK)

Status Codes
- 100 – 199: Informational. Client should respond with further action
- 200 – 299: Request is successful
- 300 – 399: Files have moved
- 400 – 499: Error by the client
- 500 – 599: Error by the server
Redirect Codes

- 301 (Moved Permanently)
  - GET
- 302 (Found)
  - a.k.a. (Moved Temporarily)
  - GET
- 303 (See Other)
  - GET and POST
- 307 (Temporary Redirect)
  - GET but not POST

HttpServletResponse Methods

- void setStatus( int sc )
- void sendRedirect( String location )
- 302
  - Handle relative URL
- Example
  - Course selector

Header Fields

- Request
  - Accept
  - Accept-Charset
  - Accept-Encoding
  - Accept-Language
  - Connection
  - Content-Length
  - Cookies
- Response
  - Content-Type
  - Content-Encoding
  - Content-Language
  - Connection
  - Content-Length
  - Set-Cookie

More Response Header Fields

- Location
  - for redirect
- Refresh
  - “Push”
  - Incremental display
- Cache-Control, Expires, Pragma
  - for cache policies

HttpServletResponse Methods

- setContentType()
- addHeader(), setHeader()
- addIntHeader(), setIntHeader()
- addDateHeader(), setDateHeader()
- containsHeader()

Examples

- Incremental display
- File name
- gzip
- jpeg (Textbook Chapter 7.5)