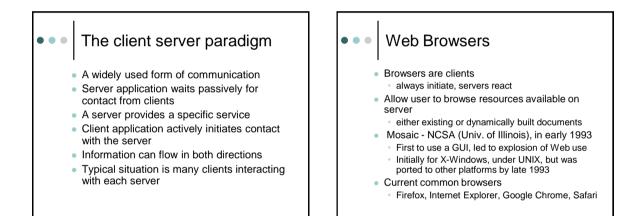
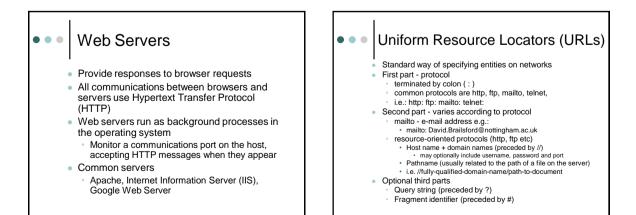
Lecture 4 Web browsers, servers and HTTP

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• Overview

- Client-server paradigm
- Web browsers
- Web servers
- URLs
- MIME
- HTTP
- 'Warriors of the net' video



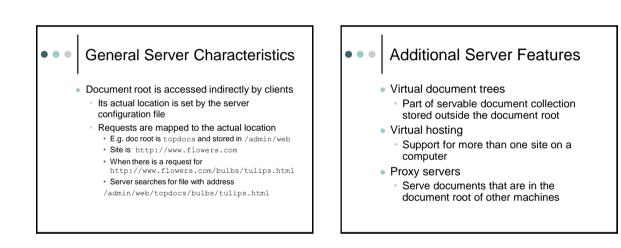


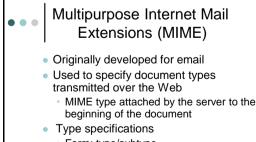
Example URLs

- mailto:steve.benford@nottingham.ac.uk
- http://www.crg.cs.nott.ac.uk/~bnk/index.html
- http://www.nottingham.ac.uk:80/
- http://acomputer.cs.nott.ac.uk:8799/
- http://uname:pword@acomputer.cs.nott.ac.uk/private/secret.html
- http://acomputer.cs.nott.ac.uk/dbase?stuff
- http://acomputer.cs.nott.ac.uk/myfile.html#third
- ftp://uname:pword@acomputer.cs.nott.ac.uk/
- ftp://acomputer.cs.nott.ac.uk/

General Server Characteristics

- Web servers have two main directories:
 - 1. Server root (server system software)
 - Document root (servable documents)
 This will map to the URL of the full domain name, e.g.: http://www.cs.nott.ac.uk/
 - User document root directory
 - Directories of a standard name in the users home directory
 - · Usually this is called public_html
 - The URL is then mapped as ~username e.g.: http://www.cs.nott.ac.uk/~bnk/



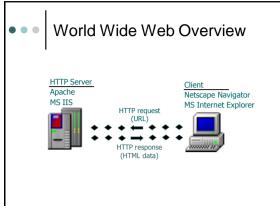


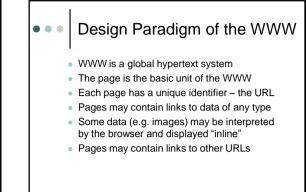
- Form: type/subtype
- Examples: text/plain, text/html, image/gif, image/jpeg

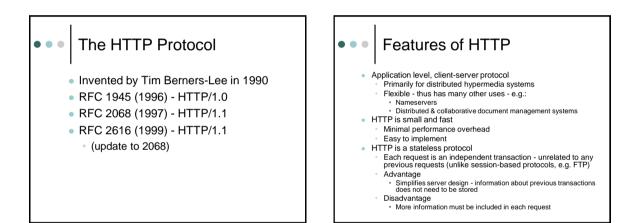
MIME

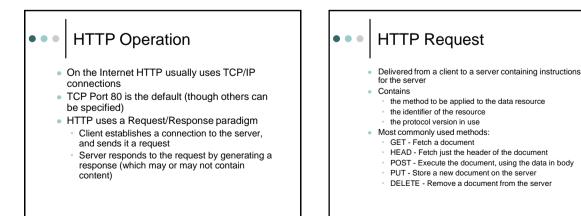
 Server gets type from the requested file name's suffix (.html implies text/html)

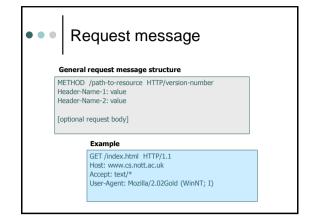
- Browser gets the type explicitly from the server
- Experimental types
 - Subtype begins with x-
 - e.g. video/x-msvideo
 - Experimental types require the server to send a helper application or plug-in so the browser can deal with the file











• • • | telnet HTTP request

- A browsers is not necessary to communicate with a web server
- > telnet blanca.uccs.edu http

GET /respond.html HTTP/1.1 Host: blanca.uccs.edu

