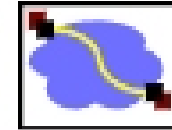




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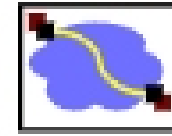
Lecture 25 – The Web

Outline



- HTTP review and details
- Persistent HTTP review
- HTTP caching
- Content distribution networks

HTTP Basics

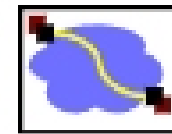


- HTTP layered over bidirectional byte stream
 - Almost always TCP
- Interaction
 - Client sends request to server, followed by response from server to client
 - Requests/responses are encoded in text
- Stateless
 - Server maintains no information about past client requests

Lecture 25: 4-7-2005

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How to Mark End of Message?

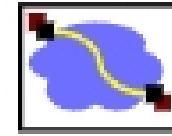


- Size of message → Content-Length
 - Must know size of transfer in advance
- Delimiter → MIME-style Content-Type
 - Server must "escape" delimiter in content
- Close connection
 - Only server can do this

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HTTP Request

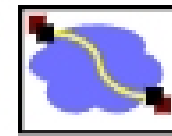


- Request line
 - Method
 - GET – return URI
 - HEAD – return headers only of GET response
 - POST – send data to the server (forms, etc.)
 - URL (relative)
 - E.g., /index.html
 - HTTP version

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HTTP Request (cont.)



- Request headers
 - Authorization – authentication info
 - Acceptable document types/encodings
 - From – user email
 - If-Modified-Since
 - Referrer – what caused this page to be requested
 - User-Agent – client software
- Blank-line
- Body

Lecture 25: 4-7-2005

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