

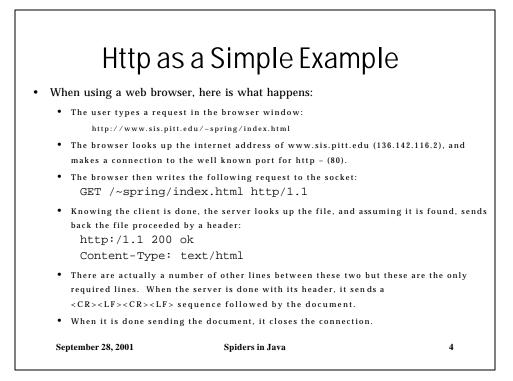
Client Server Paradigm

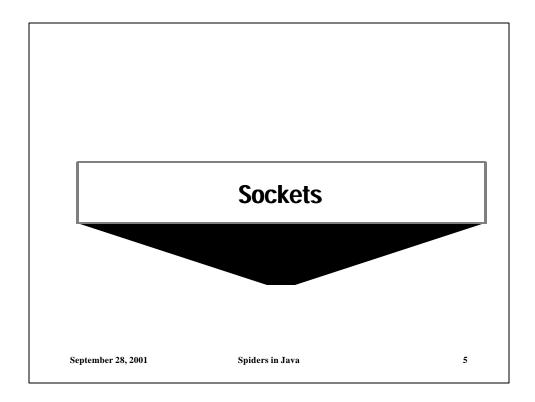
- Basic
 - · A server is started and listens to a given port for requests
 - The client initiates a request
 - The server processes the request
 - The server sends the response
- Spiders
 - A spider assumes http servers are running on standard ports and proceeds to connect to them asking for a page
 - Because the http connection is a simple request and response with an automatic shutdown the client needs do nothing more than make the request. The server will close the connection

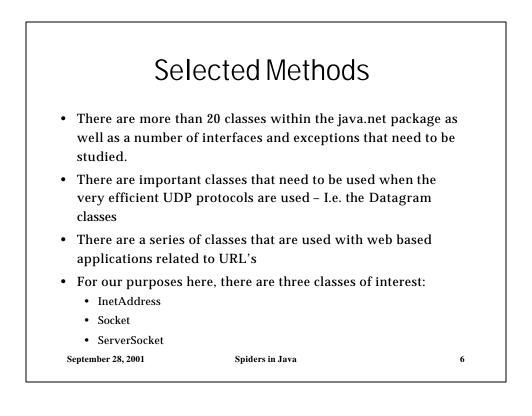
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InetAddress Class

- Socket programming anticipated numerous schemes for addressing machines on networks. Most implementations still allow for this, but in reality, there is only one address type used internet addresses.
- An internet address is a binary identifier that is four bytes long. Humans have trouble with this long a string of ones and zeros, so two alternate forms are also used:
 - Dotted decimal notations such as the STRING 136.142.116.26
 - Domain names such as the STRING cport.sis.pitt.edu
- InetAddress class is a final class with methods that provide for conversion:
 - InetAddress a = InetAddress.getByName(String)
- There are also methods to convert an InetAddress to the dotted decimal notation (getHostAddress) and domain name (getHostName)

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