Web clients and servers

HTTP and HTML video

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HTTP and HTML

**When a web client receives the IP address of a web server, the client browser uses that IP address and port 80 to request web services.**

**This request is sent to the server using the Hypertext transfer protocol (HTTP)**

**When the server receives a port 80 request, the server responds to the client request and sends the web page to the client.**

**The information content of a web page is encoded using specialized ‘mark-up’ languages.**  The HyperText markup language (HTML) coding **tells the browser how to format the web page and what graphics and fonts to use**. HTML is the most commonly used language.

**The HTTP protocol is not a secure protocol; information could easily be intercepted by other users as data is sent over the network.**

In order to provide security for the data, HTTP can be used with secure transport protocols.

Requests for secure HTTP are sent to **port 443**.

These requests use https in the site address in the browser, rather than http.

There are many different web servers and web clients available.

The HTTP protocol and HTML standards make it possible for these servers and clients from many different manufacturers to work together seamlessly