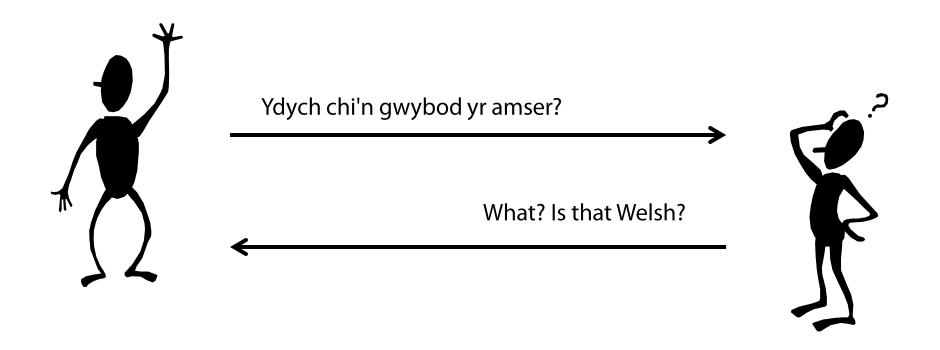
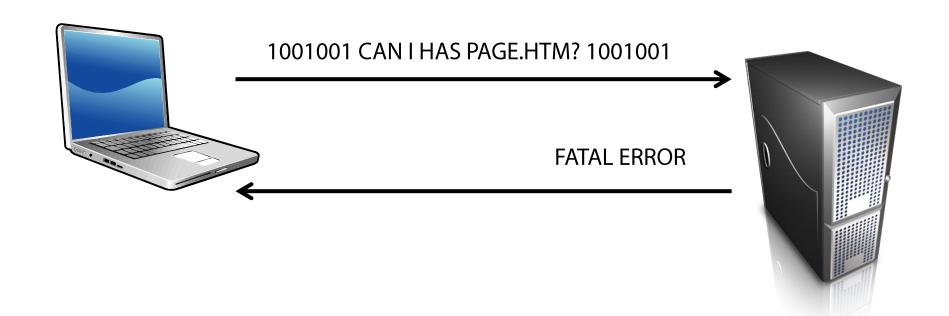
HTTP Messages

Signal transmitted, message recieved K. Scott Allen

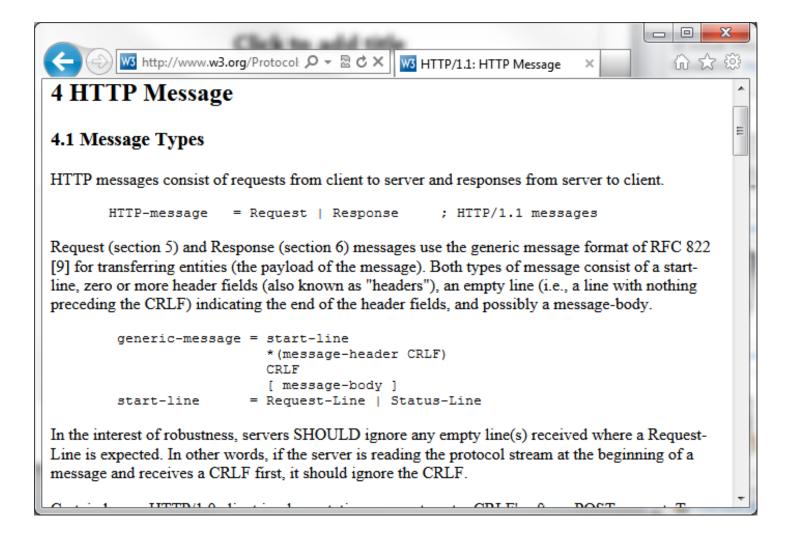


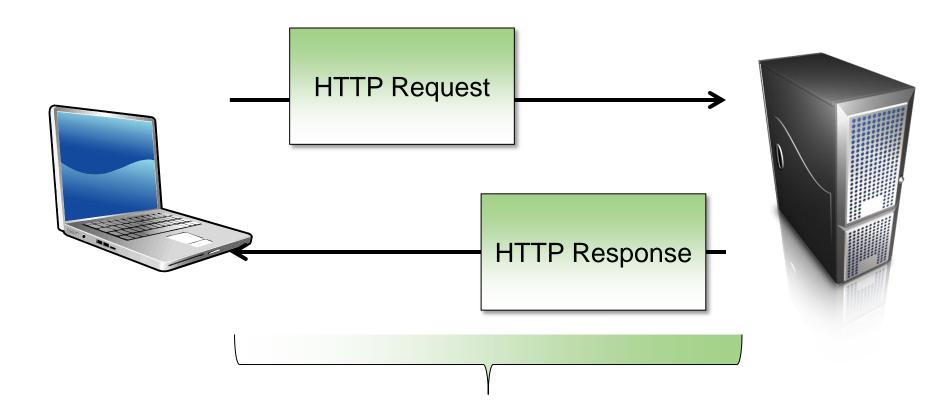






http://www.w3.org/Protocols/rfc2616/rfc2616-sec4.html#sec4





A Single HTTP Transaction

HTTP Request Methods

GET /odetocode.jpg HTTP/1.1

Host: odetocode.com

Method	Description
GET	Retrieve a resource
POST	Update a resource
PUT	Store a resource
DELETE	Remove a resource
HEAD	Retrieve the headers for a resource

Safe versus Unsafe

Safe



GET

Unsafe



POST

Request Messages

```
[method] [URL] [version]
[headers]
[body]
```

```
GET http://server.com/articles/741.aspx HTTP/1.1
```

Host: odetocode.com

Accept-Language: fr-FR

Date: Fri, 9 Aug 2002 21:12:00 GMT

Common Request Headers

Header	Description
Referer	The URL of the referring page
User-Agent	Information about the browser
Accept	Preferred media types
Accept-Language	Preferred language
Cookie	Cookie information
If-Modified-Since	Date of last retrieval
Date	Creation timestamp for the message

Full Request

```
GET / HTTP/1.1

Host: server.com

Connection: keep-alive

User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) Chrome/16.0.912.75 Safari/535.7

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Referer: http://www.google.com/url?&q=broccoli

Accept-Encoding: gzip,deflate,sdch

Accept-Language: en-US,en;q=0.8

Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.3
```

Response Message

```
[version] [status] [reason]
[headers]
[body]
```

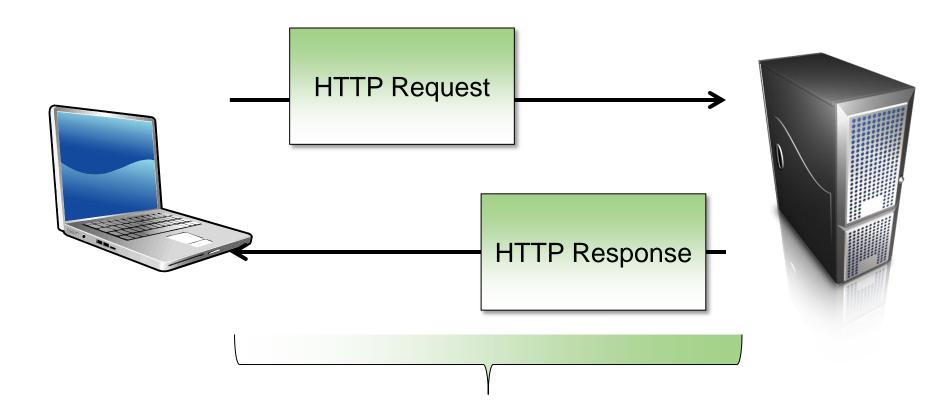
```
HTTP/1.1 200 OK
Cache-Control: private
Content-Type: text/html; charset=utf-8
Server: Microsoft-IIS/7.0
X-AspNet-Version: 2.0.50727
X-Powered-By: ASP.NET
Date: Sat, 14 Feb 2003 04:00:08 GMT
Content-Length: 17151
<html>
    ... content ...
</html>
```

Status Code Categories

Range	Category
100-199	Informational
200-299	Successful
300-309	Redirection
400-499	Client Error
500-599	Server Error

Popular Status Codes

Code	Reason	Description
200	OK	Success!
301	Moved Permanently	Resource moved, don't check here again
302	Moved Temporarily	Resource moved, but check here again
304	Not Modified	Resource hasn't changed since last retrieval
400	Bad Request	Bad syntax?
401	Unauthorized	Client might need to authenticate
403	Forbidden	Refused access
404	Not found	Resource doesn't exist
500	Internal Server Error	Something went wrong during processing
503	Service Unavailable	Server will not service the request



A Single HTTP Transaction