

Web v1

No Authentication
No encryption
Sessionless

HTTP/0.9

RFC none
METHod Supported GET
Virtual Host Support none
Responses HTML only
1 GET = 1 TCP connection

HTTP/1.0

RFC 1945
Methods Supported GET, HEAD, POST, PUT, DELETE
Responses HTML, non-HTML (text, binary, images)
Virtual Host Support none
Released in May '96, first formal HTTP standard. Formalized the misspelling of "referrer".

HTTP/1.1

RFC 2616, later replaced by 7230-7235
Methods Supported GET, HEAD, POST, PUT, DELETE, OPTION
Virtual Host Support Yes
Enabled persistent connections. Host header is mandatory.

HTTP/2

Binary Protocol Improved compression
Push Promise Web server sends content without request
Multiplexed Requests and responses can be received in parallel
HPACK (RFC 7541) Header compression
Encryption Not required by default
Primary focus is faster performance.

Example HTTP 1.1 Request

```
GET /search HTTP/1.1
Accept: /
Accept-Language: en-us
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; rv:11.0) like Gecko
Host: www.google.com
Proxy-Connection: Keep-Alive
Cookie: SESSIONID=c953ef69-78d4525b35620e9f70234aa9; ANSWER=42;
Content-Length: 0
```

This is a GET request.
The user agent string identifies the type of client software and summarizes its capabilities.
The cookie provides one or more state variables previously set by a server on this client.
The payload of this request has no content. Keep in mind the header ends with a blank line.

Example HTTP 1.1 Response

```
HTTP/1.1 200 OK
Content-Type: text/html;
charset=UTF-8
Server: Apache/2.4.7 (Ubuntu)
Date: Tue, 24 Oct 2017 15:51:10 GMT
Content-Length: 6243
```

The status code is the result of the request.
Server token is the string returned by the web server identifying itself.
Server Time is the time stamp based on the server's time and date.
Content Length is the length of the response. The header ends with a blank line.

User-Agent

Mozilla/5.0	Compliant with historical standards
Trident/7.0	rv:11.0 Internet Explorer 11.0
Windows NT 10	Windows 10
Windows NT 6.3	Windows 8.1/2012R2
Windows NT 6.2	Windows 8/2012
Windows NT 6.1	Windows 7/2008R2
Windows 6.0	Vista/2008
Web clients, often browsers.	



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Uniform Resource Identifier (URI)

Made of various pieces in the following order:

- Protocol
- username:password (blocked by modern web browsers)
- Host and domain name
- Port defaults
- Actual resource on that server
- Question mark

Often used interchangeably with URL

Query String Formats

Typical format	index.php?id=42-&name=Beeblebrox
Apache's mod_rewrite module	index.php/id/42/name/Beeblebrox
Data parsed by server-side code	index.php/id=42-\$name=Beeblebrox
Data used by an app executed using a system call in the web app	index.php?param=id:42¶m=name:Beeblebrox

Used to pass data via URL request, they are determined by the web application developer and/or the production environment running the application.



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