

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 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 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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Page 1 of 2.

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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
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Apache's mod_rewrite module	index.php/id/42/name/-Beeblebrox
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Data parsed by server-side code	index.php/id=42-\$name=Beeblebrox
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Data used by an app executed using a system call in the web app	index.php?param=id:42¶m=name:Beeblebrox
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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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Page 2 of 2.

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