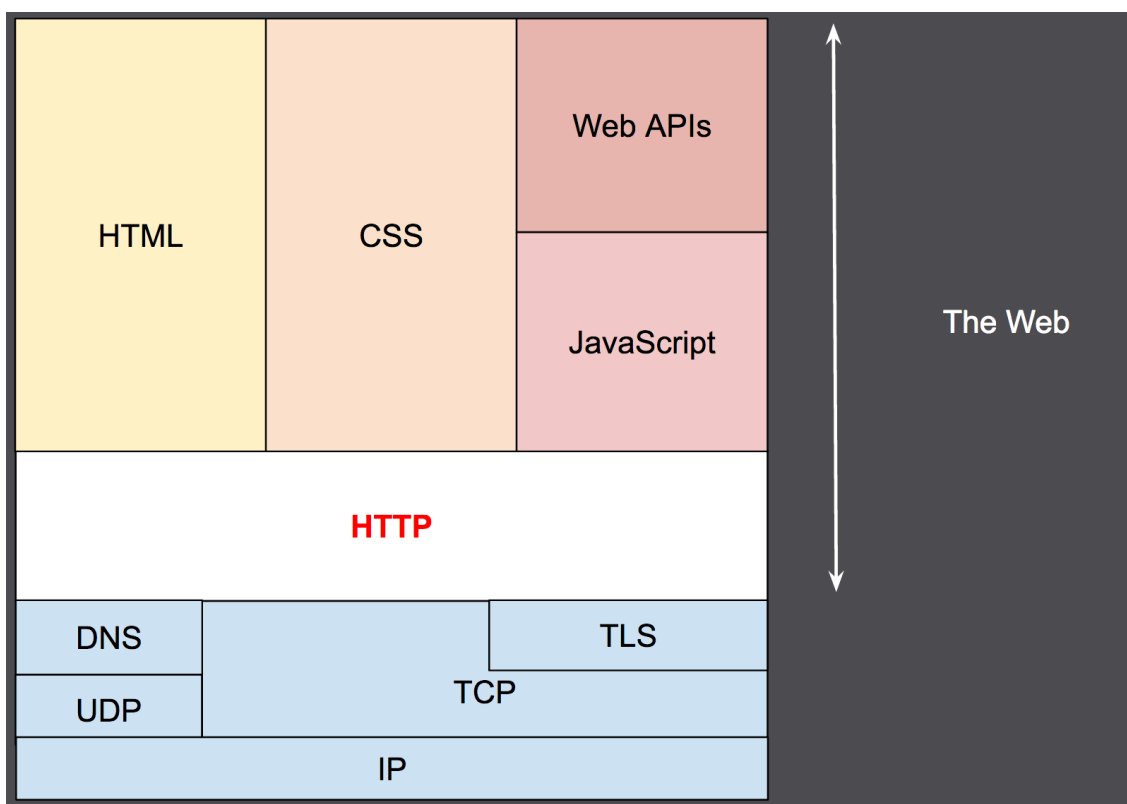


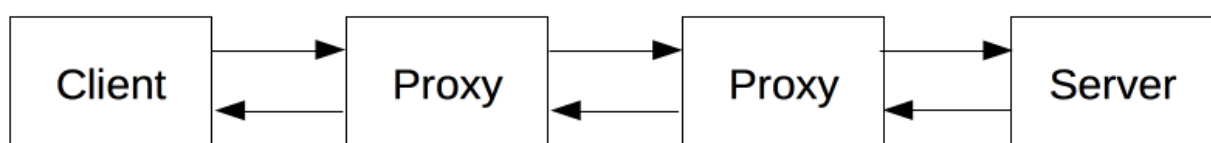
# HTTP

## 1. Basic aspects of HTTP

HTTP ( Hypertext Transfer Protocol ) is an [application-layer](#) protocol for transmitting hypermedia documents, such as HTML.



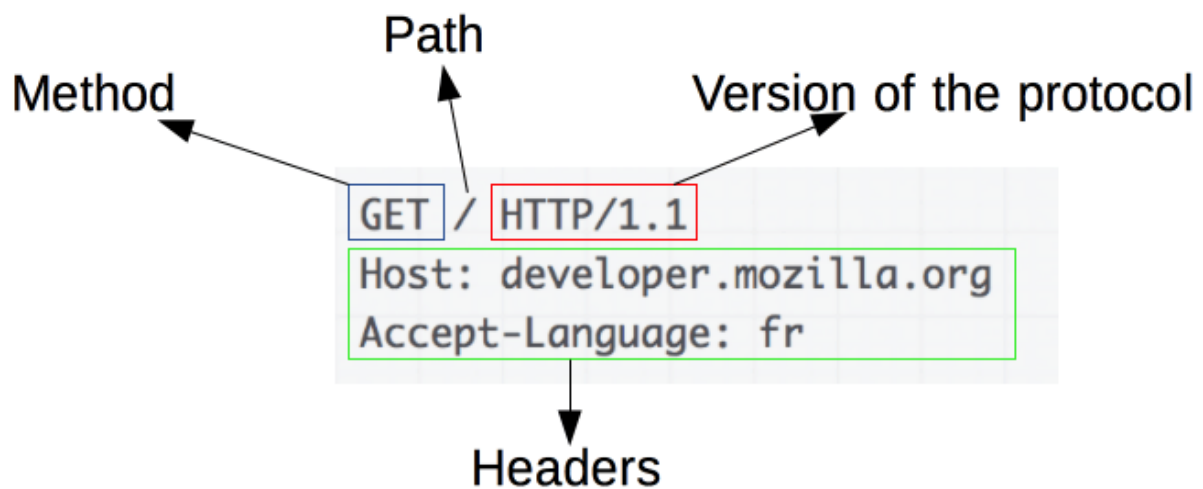
HTTP is a simple, extensible and stateless protocol which follows a classical [client-server model](#). Requests are sent by one entity, the user-agent (or a proxy on behalf of it). Most of the time the user-agent is a Web browser.



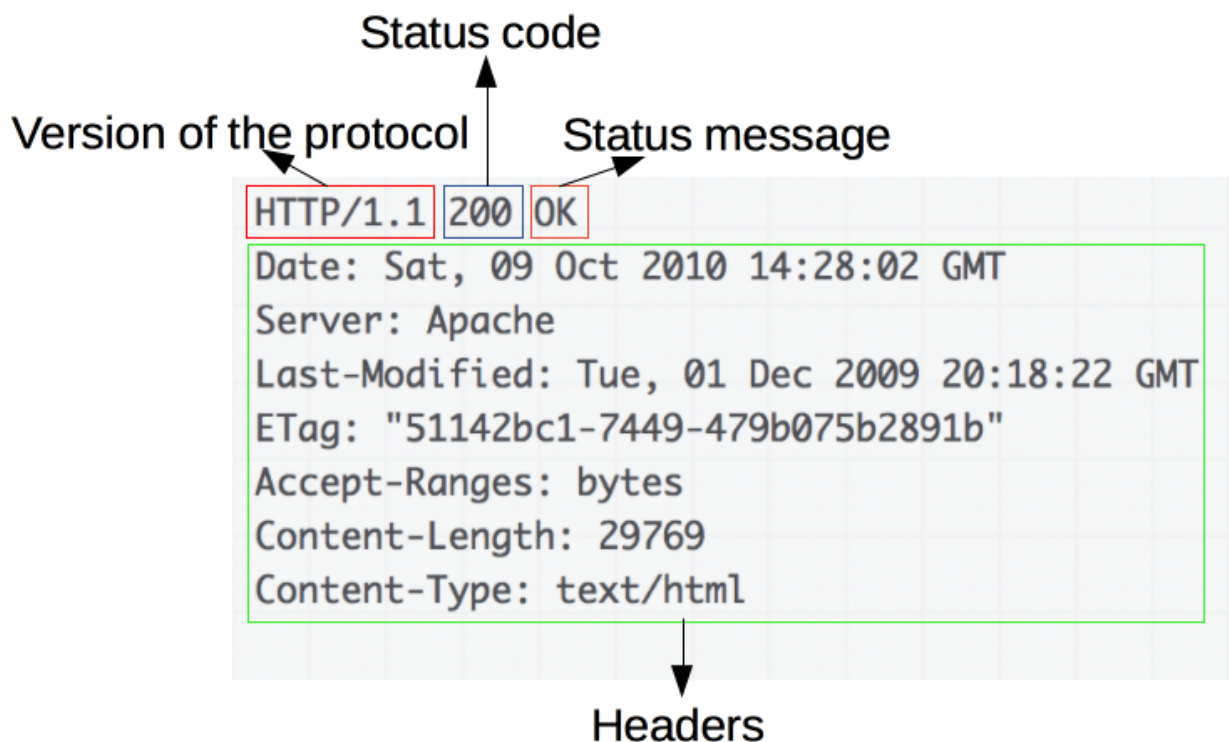
## 2. [HTTP Messages](#)

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- HTTP Request



- HTTP Response



## 3. [HTTP Methods](#)

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Methods	Description
GET	requests a representation of the specified resource
POST	submit an entity to the specified resource
PUT	replaces all current representations of the target resource with the request payload
DELETE	deletes the specified resource
HEAD	asks for a response identical to that of a <code>GET</code> request, but without the response body
OPTIONS	describe the communication options for the target resource
TRACE	performs a message loop-back test along the path to the target resource
PATCH	apply partial modifications to a resource
CONNECT	establishes a tunnel to the server identified by the target resource

```

1  GET /index.html
2
3  POST /test
4
5  PUT /new.html HTTP/1.1
6
7  DELETE /file.html HTTP/1.1
8
9  HEAD /index.html
10
11 OPTIONS /index.html HTTP/1.1
12 OPTIONS * HTTP/1.1
13
14 TRACE /index.html
15
16 PATCH /file.txt HTTP/1.1
17
18 CONNECT www.example.com:443 HTTP/1.1

```

## 4. [Status Codes](#)

Status	Status codes	Status message
<b>1XX</b> ( Informational Responses )	<b>100</b>	Continue
	101	Switching Protocols
	102	Processing
	103	Early Hints
<b>2XX</b> ( Successful Responses )	<b>200</b>	OK
	201	Created
	202	Accepted
	203	Non-Authoritative Information
	204	No Content
	205	Reset Content
	206	Partial Content
<b>3XX</b> ( Redirects )	<b>300</b>	Multiple Choices
	301	Moved Permanently
	307	Temporary Redirect
	308	Permanent Redirect
<b>4XX</b> ( Client Errors )	<b>400</b>	Bad Request
	401	Unauthorized
	402	Payment Required
	403	Forbidden
	404	Not Found
<b>5XX</b> ( Server Errors )	<b>500</b>	Internal Server Error
	503	Service Unavailable
	504	Gateway Timeout

## 5. [APIs based on HTTP](#)

APIs based on HTTP	Description
<a href="#">XMLHttpRequest</a>	exchange data between a user agent and a server
<a href="#">Fetch API</a>	provides an interface for fetching resources (including across the network)
<a href="#">server-sent events</a>	a one-way service that allows a server to send events to the client, using HTTP as a transport mechanism

## Reference

<https://developer.mozilla.org/en-US/docs/Web/HTTP>