**Hypertext Transfer Protocol (HTTP)**

**History:**

* Tim Berners-Lee invented the HTTP along with his team in CERN.
* The first version of HTTP is HTTP V0.9 (The One-Line Protocol) in 1991.
* The main motive of HTTP is to do a raw data transfer.
* On its first version it has only one method, the GET method.

**HTTP is a Text Based**

* http is a plain text protocol that’s why it is easy to read and write
* HTTP information don’t need to translate and encode
* it uses descriptive text

**HTTP is extensible**

* this protocol is easy to extend and experiment because of HTTP Headers
* by a simple agreement between client and server about a new header’s semantics, new functionality can be introduced

**HTTP Flow**

1. Open a TCP connection

2. Send an HTTP message

3. Read and response sent by the server

4. Close or reuse the connection for the further requests.

**HTTP** - defines as a set of request methods.

* HTTP GET – it is used to retrieve data from web server by specifying parameters in URL portion of the request.
* HTTP HEAD – similar to the GET method but the server will reply with a response line and headers (no-entity body).
* HTTP POST – it is used when you want to send some data to the server.
* HTTP PUT – to request the server to store the included entity-body at a location specified by the given URL.
* HTTP DELETE – to request the server to delete a file at a location specified by the given URL.

Resources:

<https://hpbn.co/brief-history-of-http/>

<https://www.tutorialspoint.com/http/http_methods.htm>

<ftp://cssgroup.net/Documentation/Active4D/HTTPFundamentals.pdf>

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