**Difference between HTTP 1.1 & HTTP 2**

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HTTP stands for hypertext transmission protocol. It is a application layer protocol in the internet. Using hypertext links, the World Wide Web loads web pages using Hypertext Transfer Protocol (HTTP). It is a communication standard for Word wide web.   
  
**HTTP 1.1**HTTP is basically an application protocol which acts as the bridge between the client computer and remote web server. That is HTTP helps to transfer the information between the client computer and web server. Here the communication happens like the user or the client computer asks or requests something through either the GET method or POST method. So the web server replies with something like an HTML page back to the client computer where all the content requested by the user will be there. The major problem in HTTP/1.1 is it loads the resources one after another. So, if one resource cannot be loaded, it blocks all the other resources behind it. Header compression is used by HTTP/1.1 to speed up the web performance as small files loads faster than the larger files.

**HTTP 2**In 2015, a new version of HTTP was created, and it is called HTTP/2. The creators of HTTP/1.1 was not ambitious about the protocol. Their primary aim was to create a protocol which helps to create a communication between client and web server. So HTTP/2 is way faster and more efficient than HTTP/1.1. One way the HTTP/2 is faster is in how it prioritizes the content during the loading process. Prioritization basically means how much priority or in what order the priority should be given to the contents in the web page requested by the user. If the user loads the page, the elements in the header will be getting more priority than the elements in the footer. This helps to render the web page smoothly. HTTP/2 allows developers to decide which page resources should load first every time, and this feature is called weighted prioritization. HTTP/2 is able to use a single TCP connection to send multiple streams of data at once so that no resource block any other resources behind it. It is done by splitting the data into binary code messages and numbering it so that the client computer or browser knows how to arrange the binary messages properly. Here HTTP/2 supports server push, which basically means the server pushes the content to the client before the client asks for it. The server also sends a message where what are the contents pushed by the server and what contents available in the local machine which the user or client can expect. HTTP/2 uses an advanced compression method called HPACK that eliminates unwanted information from HTTP header packets. So this will helps to load the web pages faster than HTTP/1.1 even though it had header compression.

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| **HTTP1.1** | **HTTP 2** |
| It works on textual format | It works on binary protocol |
| Slower compared to HTTP/2. | It is faster |
| Compress data by itself | It uses HPACK for compression |
| Basic Header compression | Advanced Header compression. |
| The Default Communication method is GET | No default communication method |
| Server push is not available. | Server push is available. |