**Difference between HTTP1.1 vs HTTP2**

HTTP is a network protocol used to **communicate between web browser and web server**. HTTP/ Hypertext Transfer Protocol is basically **sending a request to the server** which stores files, or requesting to perform any functions on behalf of the client / Web browsers.

HTTP was developed by **Tim Berners - Lee**. Berners and his team developed HTTP at the end of 1990. HTTP in the early phases was called a one-line Protocol without any version number. Later it was identified as HTTP/0.9. Evolution on the browser and the devices requested an advanced and updated version on HTTP. Which eventually leads to the evolution of HTTP.

Followed by **HTTP/0.9, HTTP/1.0, HTTP/1.1, HTTP/2, HTTP/3 - HTTP over QUIC** were designed.

The first version of HTTP (HTTP/0.9) went through several stages of development to evolve as **HTTP 1.1 in early 1997.** This is the **standardized protocol** which is still in usage. Current web pages evolved more complex. More media content was displayed and some of them contained **applications on their own.** Which needed the upgrade on the HTTP. Eventually HTTP/2 were developed. Which is more efficient and quicker than the HTTP/1.1. HTTP was developed and **standardized in May,2015**.

However both the protocols evolved over years both were differ from one another. HTTP/1.1 could reuse the connection which eliminates the necessity of opening a single document multiple times. But in the case of **multiplexing** HTTP/1,1 loads the resources **one after another.** Whereas the HTTP/2 uses a **single TCP connection** to send **multiple streams** of data at once without overlapping.

HTTP/2 uses advanced compression method **HPCK** to **eliminate the excess information** in HTTP header packets. Whereas the HTTP/1.1 **compresses the data by itself**. This results in the loading of web pages even **faster than the HTTP/1.1.**

HTTP/1.1 works on the **textual format** and it requests **inlining** for use getting multiple pages. On the other hand HTTP/2 works on **binary protocol** and it uses a **PUSH** frame by server that collects all multiple pages.

References

1. https://developer.mozilla.org/en-US/docs/Web/HTTP/Basics\_of\_HTTP/Evolution\_of\_HTTP
2. https://www.cloudflare.com/learning/performance/http2-vs-http1.1/#:~:text=Multiplexing%3A%20HTTP%2F1.1%20loads%20resources,resource%20blocks%20any%20other%20resource.omputing%20model.