

1). Difference between HTTP1.1 vs HTTP2

HTTP 1.1	HTTP2.0
Loads resources one after the other	Sends multiple streams of data at a time using a single TCP connection
If the client requests a service then only server serves it	By using, server push method, even before asking the server will display the table of contents.
Header compression will be performed to increase the speed of web performance.	HPACK is an advanced header compression method which removes redundant data and speeds up performance even more.
It uses textual format	It uses binary format
It was published in the year 1997	It was published in the year 2009

2). HTTP version history

HTTP - HyperText Transfer Protocol

It is the underlying protocol of the world wide web. Initially it was published in the year 1991.Later it went through many changes and new versions were established.

HTTP/0.9 -It is extremely simple,requests consists of a single line and only possible method is GET. There are no status lines and error code messages,instead sent a HTML file With error description. It was established in the year 1991.
HTTP/1.0 - It consists of status line codes for tracking failures .HTTP/1.0 is appended to GET I GET line.HTTP headers were introduced,so not only HTML files other files can be Transmitted. It was established in the year 1995
HTTP/1.1 -It was introduced just a year after the HTTP/1.0 version.Many features were added To it like,Connection can be reused,pipelining,chunked responses,additional cache Control mechanisms,content negotiation.It was established in 1997
HTTP/2.0 -It is an upgrade version to HTTP/1.1.In HTTP/2.0 we use binary data format, Multiplexing can be done,compressed headers,server push.It was started in 2015
HTTP/3 - It is the upcoming version.

3). List 5 differences between Browser JS vs Node Js.

BROWSER JS	NODE JS
ES modules are implemented.Uses javascript as programming language	Common js module system is used.Uses java script as programming language
Window is present	Window is absent
Frontend and backend cannot be coded in same language	Frontend and backend can be coded in same language
Interacting with DOM and Platform APIs like cookies	No cookies
Cannot control the environment	You can control the environment unless it is an open source

4).what happens when you type a URL in the address bar in the browser?

- 1).Browser checks the cache for the DNS record to find the corresponding IP address.
- 2).If it is not found then ISP's DNS server requests a DNS query for IP address.
- 3).Then browser initiates a TCP connection with the server.
- 4).Browser sends an HTTP request to the server.
- 5).Server sends back a response.
- 6).Server sends back a HTTP response.
- 7).Browser displays HTML content.