Difference between http1.1 and http2

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| HTTP 1.1 | Http2 |
| It was created first in 1997 and received a name version 1.1 | Later it got the name version 2 after adding some several changes to the version 1.1 |
| It was faster at that time and helped more companies to be productive | It is much faster and more efficient that the version 1 in recent years |
| It prioritizes the content slower during the loading time | It prioritizes content much faster that the older version |
| It’s going to vanish soon | It will survive for couple of years until another version comes out |

Http version history

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| --- | --- |
| Http version | Year |
| Version 1.0 | 1996 |
| Version 1.1 | 1997 |
| Version 2.0 | 2015 |
| Version 3.0 | 2020 |

Difference between browser Js and node Js

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| Browser JS | Node Js |
| Mostly used inside the browser  to do some stuffs | It is used to play with java script outside the browser |
| Uses V8 engine | Uses V8 engine |
| It is not lightweight where compare with node Js | It enables you to write server-side powerful applications using JavaScript |
| Only for frontend usage | Applicable for both frontend and backend |
| Released on 1996 | Released on 2009,27 of May |

What happens when you type a URL in the address bar in the browser

-Once the user typed a URL in the address bar, DNS first resolves the names of internet sites with their underlying IP address.DNS is a directory of names that matches with numbers. The numbers in this case or IP address which helps us to communicate each other.

-Then it initiates TCP connection (Transport Control Protocol). Which gives more security while using the sites and this TCP connection is mostly used in banking sites and also the syn process takes place between the client and the server.

-Also, User Data Protocol (UDP) has been used in almost all sites but it gives zero security when compared with TCP connection.

-Then it sends http request to the server then the server responses by giving some useful information which we are looking for

-During this process the browser parses both the html document and the CSS style sheet into tokens.

-Then the tokens from the html document parses into DOM tree and the tokens from the CSS stylesheet parses into CSSOM tree.

-Then these trees got rendered (Layout) by the rendering engine and finally painting process takes place to give a stylish look to the browser were the user can interact it much easier.