**Difference between js and node js**

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| JavaScript is a programming language. It running in any web browser with a proper browser engine. | It is an interpreter and environment for JavaScript with some specific useful libraries which JavaScript programming can use separately. |
| Mainly using for any client-side activity for a web application, like possible attribute validation or refreshing the page in a specific interval or provide some dynamic changes in web pages without refreshing the page. | It mainly used for accessing or performing any non-blocking operation of any operating system, like creating or executing a shell script or accessing any hardware specific information or running any backend job. |
| JavaScript running any engine like Spider monkey (FireFox), JavaScript Core (Safari), V8 (Google Chrome). | Node JS only run in a V8 engine which mainly used by google chrome. And javascript program which will be written under this Node JS will be always run in V8 Engine. |
| JavaScript is normally following java programming language, standard. There may have some different way of writing code but at the same time, we can say it following Java Programming language standard. | Node JS is written in C++, and provide V8 engine base browser javascript running engine which helps us to run written javascript program in any browser environment. |
| For accessing any operating system specific non-blocking task JavaScript has some specific object but all of them are operating system specific. An example is ActiveX Control which is only running in Windows. | Node JS is given utility to run some operating system specific non-blocking tasks from any JavaScript programming. It doesn’t have any operating system specific constant. Node JS is very much familiar to create a specific binding with the file system, and also allowing developer for reading or sometimes write on disk. |

**What happens when you type a URL in web browser:**

The URL is first initially transferred into a IP address through DNS(domain name server)

Since it is a http call it has to follow the protocols of TCP(Transmission control protocol)

After this we will get the server response.

After the server response it will pass the html document it will pass the css style sheet and once it is passed the DOM tree and SOM tree is formed.

After which rendering tree or Layout tree is formed. And proceed to that the painting process will happen.

In the painting process all the information will be converted into the webpage.

**Execute the code:**

typeof(1) - number

typeof(1.1) - number

typeof('1.1') - string

typeof(true) - boolean

typeof(null) - object

typeof(undefined) - undefined

typeof([]) - object

typeof({}) - object

typeof(NaN) - number (Nan stans for not a not a number)