**Javascript - Day -2 : Request & Response cycle**

**watch & summary 5 points -** [**https://www.youtube.com/watch?v=SmE4OwHztCc&ab\_channel=JSConf**](https://www.youtube.com/watch?v=SmE4OwHztCc&ab_channel=JSConf)

* **He discuss about the few basic tags of HTML , CSS , Dom tree , cssom .how to parsing of html and css takes place**
* **How the exactly the browser actually render a website.**
* **Render tree but not used in DOM tree**
* **Parsing can be done in DOM tree**
* **DOM tree can Render tree**
* **Calukating the visual properties i.e it can combine all the styles , default , external , style element , inline . It can complexity around the matching**
* **Example for a BAD coding**

**Var divheight= div.clientheight / 1.7**

**div.styleheight = divweight + ‘px’;**

**var div2height = div.clientheight / 1.7**

**div.styleheight = div2weight + ‘px’;**

**Example for a Good Coding**

**Var divheight= div.clientheight / 1.7**

**var div2height = div.clientheight / 1.7**

**div.styleheight = divweight + ‘px’;**

**div.styleheight = div2weight + ‘px’;**

* **The paint setup will take the layout and render the created layout**
* **Increments the process and builds up over 12 phases**
* **Layout computes where a node will be on the screen**
* **Painting computes bitmaps and composite to screen**
* **The speed is upto the first paint time**
* **External JS and css can be block and the list view with the reusable can in used in the flexbox.**
* **Browser Enginner is a hard job to make a really interesting website for a better development.**

**List 5 difference between Browser JS(console) v Nodejs**

|  |  |
| --- | --- |
| **Broswer JS** | **Node JS** |
| **It can interact with DOM or other Web Platform** | **Dom or other web platform does not exist** |
| **It cant support all the APIs** | **It can support all the APIs through its module like the file system access functionality** |
| **It is not so convenient to run all the application on the browser Js** | **It is a open source application that can be deployed and run application anywhere** |
| **Browsers can be bit slower to upgrade** | **It can be faster upgraded** |
| **It uses ES Module** | **It uses common JS Module system** |
| **It uses import in browser** | **It uses requires in NODE JS** |

**Execute the below code and write your description in txt file**

* 1. **typeof(1) its returns as number .**
  2. **typeof(1.1) its returns as number.**
  3. **typeof('1.1') its returns as string (enclosed with quotes)**
  4. **typeof(true) its return Boolean**
  5. **typeof(null) its returns a null**
  6. **typeof(undefined) its returns undefined**
  7. **typeof([]) it returns as object**
  8. **typeof({}) it return as object**
  9. **typeof(NaN) it return as Number**