JavaScript Interview Questions

Developed by Brendan Eich in 1995, JavaScript is one of the most popular languages for web development.  
It was initially created to develop dynamic web pages. Every JS program is called a script, which can be attached to any web page’s HTML. These scripts run automatically when the page loads.

**What are the different data types present in javascript?**

**Primitive types**

* **String** - It represents a series of characters and is written with quotes. A string can be represented using a single or a double quote.
* **Number** - It represents a number and can be written with or without decimals.
* **BigInt** - This data type is used to store numbers which are above the limitation of the Number data type. It can store large integers and is represented by adding “n” to an integer literal.
* **Boolean** - It represents a logical entity and can have only two values: true or false. Booleans are generally used for conditional testing.
* **Undefined** - When a variable is declared but not assigned, it has the value of undefined and it’s type is also undefined.
* **Null** - It represents a non-existent or a invalid value.
* **Symbol** - It is a new data type introduced in the ES6 version of javascript. It is used to store an anonymous and unique value.

**Non-primitive types**

* **Object** - Used to store collection of data.

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| **Explain Hoisting in javascript.** |
| Hoisting is a default behaviour of javascript where all the variable and function declarations are moved on top. |
| Declaration moves to top |
| This means that irrespective of where the variables and functions are declared, they are moved on top of the scope. The scope can be both local and global. |
| Difference between “ == “ and “ === “ operators. |
| Both are comparison operators. The difference between both the operators is that,“==” is used to compare values whereas, “ === “ is used to compare both value and types. |
| Example: |
| |  |  |  |  | | --- | --- | --- | --- | |  | |  | | --- | | **var** x = 2; **var** y = "2"; (x == y) // Returns true since the value of both x and y is the same (x === y) // Returns false since the typeof x is "number" and typeof y is "string" | |  | |
| Is javascript a statically typed or a dynamically typed language? |
| JavaScript is a dynamically typed language. In a dynamically typed language, the type of a variable is checked during run-time in contrast to statically typed language, where the type of a variable is checked during compile-time. |
| Static vs Dynamic Typing |
| Since javascript is a loosely(dynamically) typed language, variables in JS are not associated with any type. A variable can hold the value of any data type. For example, a variable which is assigned a number type can be converted to a string type: |
| |  |  |  |  | | --- | --- | --- | --- | |  | |  | | --- | | **var** a = 23; **var** a = "Hello World!"; | |  | |
| What is NaN property in JavaScript? |
| NaN property represents “Not-a-Number” value. It indicates a value which is not a legal number. |
| typeof of a NaN will return a Number . |
| To check if a value is NaN, we use the isNaN() function, |
| \*\*Note- isNaN() function converts the given value to a Number type, and then equates to NaN. |
| |  |  |  |  | | --- | --- | --- | --- | |  | |  | | --- | | **isNaN**("Hello") // Returns true **isNaN**(345) // Returns false **isNaN**('1') // Returns false, since '1' is converted to Number type which results in 0 ( a number) **isNaN**(**true**) // Returns false, since true converted to Number type results in 1 ( a number) **isNaN**(**false**) // Returns false **isNaN**(**undefined**) // Returns true | |  | |
| What is DOM? |
| DOM stands for Document Object Model. |
| DOM is a programming interface for HTML and XML documents. |
| When the browser tries to render a HTML document, it creates an object based on the HTML document called DOM. Using this DOM, we can manipulate or change various elements inside the HTML document. |
| Example of how HTML code gets converted to DOM: |
| DOM |
| [Take Javascript MCQ Test](http://url2196.scaler.com/ls/click?upn=qiBQA1Ftxn0-2FKYlpOF5YNR-2BuRVCK7967LYNB2fJzpAkfrPv6IcEoMzMIZ33D0zBa-2FIlBz1uuXZhHTWp5ezGPWc1lIZtuy1dBVvUk6V8cHJAUCZTGSdQ4R7H56hEwS3ESjqDg6Xs5b6bHMD1GGqWtRlAaevXKZKJUfbMIby-2BAXiDzKw0SIwpxW0nAozEDUlSIEGEJ2GtSFrf0uoU8-2B-2Fh6OqsViQHD0ZKerg70ps6kd2BLD3AA-2FWStRynUdifiLc6It8qix0DSGfvMP9YzqCCEoM9LnsDSkaN7PtZ-2Fujd8EkqguHLL4KujB4K13cXEDU7vseZHaERVnNShYlQ8lLwWFThcviaGZGRCOnz3m3RKUqYB2XIvHp9BEoU8jWPX9kWwkFAd3kLz-2BbL8G0Cvqth1zHioV-2FAeEUmkHm7lpTxehAsrg847XHNt9adcbtYdguL60WzspsnQ8rEAWQakUIH7D7YnzDSXxBolKf1EWR1tvE9MKg-2BEpaalNf1pIkVG-2FZQsH0sED9Sl9-2Bssf-2B7Bq41AGHTTrBDf5fLIn82OlfEbA-2BC9u9GRsCHGU3uFwJ27cMnoP4P8SoIqZ2YRwmGrFDo81LVRRgDRqaHauE2yZUrutebwsJoOPGnhzNR9H92PPDjt04VWpTkUjEMxdOpiOsw82-2BRzYeZPBFpcdc9tfPMWyBE5iZOVQQudskKvudi610fHIHuIzvw5IzXzyL1cPTs16BBxKwnHJU6YjcS51mD5nvKYmssZN44ozSiAVApaMciwdr3DAJT7JOQdZsSwIt1kk14z5S2Db2vuORgt1yh48crD1Szj0NUdg-2BZBFlB10u2MA10cx6D9eUO-2FZYiXX7MLHvRf4Ud-2BL5iYAZMUhGcbzqI-3DName_k8XV4tk3PHqG4gsj4SOhyXxLdFIWndUG1iHtHqsz5BT-2BVESgYam4-2BdqWvUSeUiJyywodhJawRGpfn6VviDfEOiVooplFtbjP86VoCCks-2FcVZcgtbZOe-2BFg7iyJRXuUoGIWQj0Qc8tClIO1yr6plowpHjIk8wMfwCsgjb46vW8C6-2FF6-2FQxVyZyLgPwVfmWWziq-2BxVZSN7GNg1i9cnenOAlo-2FqsMVRRMoy3O4eqFb3Y05ddU4YUAhTjYVtI3lGMJ9t4RPW1h15CMfQ5KwCD2H3HaT3nGuvy9kR1wntyrtcLHkRLtGk0s9qC0PbqgBvqGYsLWbfk0ltX2-2BOmuYttd81HfO0kH5PbN0ClRB6BLEDO2ybhqLPP9LpGWl0mWBQfCOcDku1gAR-2B8STFKEbIVnr95DogbNqdJS2R8hFOzCOTO0up1VpsuCdeg7Wajwl52-2Bbylt6QNTKFLNFsxrk4KyxFyYGVuoOTLF7RLjAirievtS13bXEZ3pjAZDJnmc-2F5GzwKE7YMC-2Bvd3iRFUnL-2BKDD7BVKM5fTFaxNHJNri0Gj9s-2FTU3NqZNkbtB1nskpi1nhqvnTKMqotvEekpAfOeDcjOrHN4PzSMVXdYedOp8tpVLC99EGDRxmbhrRXx7z2cB5SiWewjQ-2F7ktoHWu7A4ZfZaFH8WQAwUK2uWKIC5H7RAvT3cgo8yMp7cNk6vt-2FESAoLBxyxDtE-2BKJVRXqShNUDfZDg-3D-3D) |