**What is Js?**

JS is Lightweight( small memory and easy to implement ),Interpreted( No compilation. Instructions Executes directly ),

O-O ,first-class functions( where functions can be used as values ),scripting Language.

**Programming vs Scripting Language**

<https://www.geeksforgeeks.org/whats-the-difference-between-scripting-and-programming-languages/>

**Datatypes in JavaScript**

**Tell me about primitive datatypes**

**primitive vs non-primitive**

<https://medium.com/@junshengpierre/javascript-primitive-values-object-references-361cfc1cbfb0>

**JS Arrays**

[https://www.youtube.com/watch?v=arIhhRd1RPc HYPERLINK "https://www.youtube.com/watch?v=arIhhRd1RPc&list=PLyuRouwmQCjnupe\_ohQgFvwFZF8dycwK8"& HYPERLINK "https://www.youtube.com/watch?v=arIhhRd1RPc&list=PLyuRouwmQCjnupe\_ohQgFvwFZF8dycwK8"list=PLyuRouwmQCjnupe\_ohQgFvwFZF8dycwK8](https://www.youtube.com/watch?v=arIhhRd1RPc&list=PLyuRouwmQCjnupe_ohQgFvwFZF8dycwK8)

**string methods**

<https://www.youtube.com/watch?v=VRz0nbax0uI>

**array methods**

<https://www.youtube.com/watch?v=MeZVVxLn26E>

**Explain about closures**

<http://javascriptissexy.com/understand-javascript-closures-with-ease/>

[https://www.youtube.com/watch?v=O312eN5J2bc HYPERLINK "https://www.youtube.com/watch?v=O312eN5J2bc&list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c"& HYPERLINK "https://www.youtube.com/watch?v=O312eN5J2bc&list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c"list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c](https://www.youtube.com/watch?v=O312eN5J2bc&list=PLqq-6Pq4lTTZ_LyvzfrndUOkIvOF4y-_c)

**callbacks**

<http://javascriptissexy.com/understand-javascript-callback-functions-and-use-them/>

<https://stackoverflow.com/questions/2070275/what-are-closures-and-callbacks>

[https://www.youtube.com/watch?v=RU-QXuhOSy0 HYPERLINK "https://www.youtube.com/watch?v=RU-QXuhOSy0&index=21&list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c"& HYPERLINK "https://www.youtube.com/watch?v=RU-QXuhOSy0&index=21&list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c"index=21 HYPERLINK "https://www.youtube.com/watch?v=RU-QXuhOSy0&index=21&list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c"& HYPERLINK "https://www.youtube.com/watch?v=RU-QXuhOSy0&index=21&list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c"list=PLqq-6Pq4lTTZ\_LyvzfrndUOkIvOF4y-\_c](https://www.youtube.com/watch?v=RU-QXuhOSy0&index=21&list=PLqq-6Pq4lTTZ_LyvzfrndUOkIvOF4y-_c)

**difference between = and == and === ?**

**What are the variable types in JavaScript.**

**Tell me about local variables in js 6**

**Disadvantage of local variables**

**undefined VS not defined VS null ? What are their types?**

if you declare a variable but not assigned then its value is undefined of type undefined.

typeof null === 'object'; // This stands since the beginning of JavaScript

A "fix" was proposed for ECMAScript (via an opt-in). It would have resulted in:

typeof null === 'null'

... but this change was rejected, due to issues with code using this specific "quirk" to test for null.

**Difference between let,const VS var? which one is more preferable and give some scenarios when should we use which one**

<https://hackernoon.com/js-var-let-or-const-67e51dbb716f>

<https://dzone.com/articles/javascript-difference-between-var-let-and-const-ke>

<http://vegibit.com/es6-let-vs-var-vs-const/>

**hoisting**

<https://scotch.io/tutorials/understanding-hoisting-in-javascript>

**what is function hoisting in JavaScript?**

**variable hoisting ?**

**How is the variable passed -pass by value or reference in JavaScript?**

**When you make a copy of object/array ,will it be copy or reference?**

**how can we make a copy of an object in JavaScript? Explain Deep & shallow copy?**

**JS - what is “this” keyword referred to ?**

<http://javascriptissexy.com/understand-javascripts-this-with-clarity-and-master-it/>

<https://toddmotto.com/understanding-the-this-keyword-in-javascript/>

**Can we use “this” on button click?**

**What is bind, apply, call with respect to functions?**

**call vs .apply**

<https://stackoverflow.com/questions/1986896/what-is-the-difference-between-call-and-apply>

<http://javascriptissexy.com/javascript-apply-call-and-bind-methods-are-essential-for-javascript-professionals/>

**.bind method**

<https://stackoverflow.com/questions/2236747/use-of-the-javascript-bind-method>

**declaration,intialization/definition and assigning**

<https://teamtreehouse.com/community/what-is-the-difference-between-declaring-a-variable-and-initializing-a-variable>

// **assigning**: throwing away the old value of a variable and replacing it with a new one

// **initialization / definition**: it's a special kind of assignment: the first. Before initialization objects have null value and primitive types have default values such as 0 or false. Can be done in conjunction with declaration.

// **declaration**: a declaration states the type of a variable, along with its name. A variable can be declared only once. It is used by the compiler to help programmers avoid mistakes such as assigning string values to integer variables. Before reading or assigning a variable, that variable must have been declared.

**Property Access**

<https://codeburst.io/javascript-quickie-dot-notation-vs-bracket-notation-333641c0f781>

ECMAScript 5 (2009) allows property access [ ] on strings:

Example

var str = "HELLO WORLD";

str[0]; // returns H

Property access might be a little unpredictable:

It does not work in Internet Explorer 7 or earlier

It makes strings look like arrays (but they are not)

If no character is found, [ ] returns undefined, while charAt() returns an empty string.

It is read only. str[0] = "A" gives no error (but does not work!)

Example

var str = "HELLO WORLD";

str[0] = "A"; // Gives no error, but does not work

str[0]; // returns H

If you want to work with a string as an array, you can convert it to an array.

**indexOf,lastIndexOf //string and array**

<https://www.youtube.com/watch?v=xdziI2avnZ4>

**if an object is created in global scope and passed, if an attribute is modified, would the value change?**

**what is global namespace attached to? what does that mean?**

**Explain about modular pattern**

**difference between setInterval and setTimeout and write code to stop both?**

**What happens during timeout delay?**

**How to make synchronous call in JavaScript**

**how can you make JavaScript synchronous?**

**How to break infinite for loop (synchronous loop)?**

**Do you have knowledge of async programming?**

**overriding vs overloading in JS?**

<https://stackoverflow.com/questions/34336995/overloading-vs-overriding-in-javascript>

**try catch and finally in js?**

**How do you create objects**

**how many ways you know to create Objects?**

<https://stackoverflow.com/questions/6843951/which-way-is-best-for-creating-an-object-in-javascript-is-var-necessary-befor>

<https://www.w3schools.com/js/js_object_definition.asp>

**object literals**

<http://www.dyn-web.com/tutorials/object-literal/>

<http://www.dyn-web.com/tutorials/object-literal/properties.php>

<https://www.w3schools.com/js/js_objects.asp>

**Which way is best for particular scenario?**

**How will you delete a property in object.**

**window object vs document object**

<http://eligeske.com/jquery/what-is-the-difference-between-document-and-window-objects-2/>

**DOM**

<https://www.digitalocean.com/community/tutorials/introduction-to-the-dom>

**BOM**

<https://www.w3schools.com/js/js_window.asp>

**console**

<https://www.freecodecamp.org/news/how-to-get-the-most-out-of-the-javascript-console-b57ca9db3e6d/>

**How do you connect to a backend REST service ?**

**Have u consumed any REST API in JSON format**

**How can we make ajax request?**

**Ajax - it's syntax, its properties (like data, type, datatype, async, cache) and when Success, error, complete block will execute.**

**in JavaScript, API data should be stored in what type of variable? - string**

**why would not you use number/object for API data?**

**What are promises and how are they used? Multiple promises how are they chained?**

**console.log(1>2>3); what will be the output in JavaScript?**

**Do you have knowledge in js prototype, function and all?**

<http://help.dottoro.com/ljgecwtw.php>

[https://www.youtube.com/watch?v=fBpPfPjxOhc HYPERLINK "https://www.youtube.com/watch?v=fBpPfPjxOhc&list=PLqq-6Pq4lTTaflXUL0v3TSm86nodn0c\_u"& HYPERLINK "https://www.youtube.com/watch?v=fBpPfPjxOhc&list=PLqq-6Pq4lTTaflXUL0v3TSm86nodn0c\_u"list=PLqq-6Pq4lTTaflXUL0v3TSm86nodn0c\_u](https://www.youtube.com/watch?v=fBpPfPjxOhc&list=PLqq-6Pq4lTTaflXUL0v3TSm86nodn0c_u)

**Where do you write function in constructor or prototype?**

**Why to write function in constructor and not in prototype?**

**What is prototype in objects and its use.**

**What is prototype in object? When it’s used? And how it is used for inheritance ?**

**protoptype vs Constructor**

<https://stackoverflow.com/questions/28600238/trying-to-understand-the-difference-between-prototype-and-constructor-in-javascr>

<http://www.htmlgoodies.com/beyond/javascript/object.create-the-new-way-to-create-objects-in-javascript.html>

**js prototype..prototype vs \_\_proto\_\_**

<http://javascriptissexy.com/javascript-prototype-in-plain-detailed-language/>

**What to do in order to make delay in a method?**

**Tell me about spread operator?**

**Difference between document.ready and window.load. Which will execute first and which will execute at end?**

**Difference between Typescript and JavaScript**

**what is the drawback in JavaScript to make a function really private?**

**what kind of drawback in browser?**

**OOPS in JS ?**

<https://www.youtube.com/watch?v=rlLuL3jYLvA>

<https://www.youtube.com/watch?v=Q-sP71DgKK0>

<http://viralpatel.net/blogs/object-oriented-programming-with-javascript/>

<http://javascriptissexy.com/oop-in-javascript-what-you-need-to-know/>

**Simulate OOO programming in JavaScript like [classes, objects , visibility identifiers like private, public etc… ]**

**Difference between function and function expression**

**function declaration vs function expression**

<https://medium.com/@mandeep1012/function-declarations-vs-function-expressions-b43646042052>

<https://javascriptweblog.wordpress.com/2010/07/06/function-declarations-vs-function-expressions/>

**curry a function**

<https://www.sitepoint.com/currying-in-functional-javascript/>

**Concept of immediately invoke function expression**

**What is semantics of having braces () in the function expression and how does the browser engine recognize**

**Ways of managing objects**

**how did you organize your JavaScript file?**

**how JavaScript file was structured?**

**how did you load the JavaScript file? did you separate it into modules?**

**Modular pattern in JavaScript?**

**How do you loop array or objects. Give some 2 to 3 functions available.**

**What is chaining.**

**Explain about event looping ?**

<https://stackoverflow.com/questions/21607692/understanding-the-event-loop>

**Event bubbling and propagation. How you stop it.**

**Eventing – Publishing, Subscribing in JavaScript.**

**What is MVC pattern? How it is implemented in UI, JavaScript side? What code goes into model, view, controller files?**

**What is arrow function? How and why it is used?**

<https://medium.com/beginners-guide-to-mobile-web-development/everything-you-need-to-know-about-es6-arrow-functions-and-lexical-this-19cce1a49bdf>

<https://tylermcginnis.com/arrow-functions/>

<https://toddmotto.com/es6-arrow-functions-syntaxes-and-lexical-scoping/>

<https://derickbailey.com/2015/09/28/do-es6-arrow-functions-really-solve-this-in-javascript/>

<https://medium.freecodecamp.org/when-and-why-you-should-use-es6-arrow-functions-and-when-you-shouldnt-3d851d7f0b26>

**What is Map, WeakMap in JavaScript? What’s it used for and how it is used? Example**

**set Operator**

<https://www.youtube.com/watch?v=mzlIYyY6he4>

**For loop and for in loop with syntax**

<https://www.youtube.com/watch?v=bDt--Mtj094>

[https://www.youtube.com/watch?v=a3KHBqH7njs HYPERLINK "https://www.youtube.com/watch?v=a3KHBqH7njs&t=11s"& HYPERLINK "https://www.youtube.com/watch?v=a3KHBqH7njs&t=11s"t=11s](https://www.youtube.com/watch?v=a3KHBqH7njs&t=11s)

**RegEx**

[https://www.youtube.com/watch?v=zPeEU9dP83M HYPERLINK "https://www.youtube.com/watch?v=zPeEU9dP83M&list=PLyuRouwmQCjk2nJENk4hORzy6LBGz8XoU"& HYPERLINK "https://www.youtube.com/watch?v=zPeEU9dP83M&list=PLyuRouwmQCjk2nJENk4hORzy6LBGz8XoU"list=PLyuRouwmQCjk2nJENk4hORzy6LBGz8XoU](https://www.youtube.com/watch?v=zPeEU9dP83M&list=PLyuRouwmQCjk2nJENk4hORzy6LBGz8XoU)

[https://www.youtube.com/watch?v=r6I-Ahc0HB4 HYPERLINK "https://www.youtube.com/watch?v=r6I-Ahc0HB4&list=PL4cUxeGkcC9g6m\_6Sld9Q4jzqdqHd2HiD"& HYPERLINK "https://www.youtube.com/watch?v=r6I-Ahc0HB4&list=PL4cUxeGkcC9g6m\_6Sld9Q4jzqdqHd2HiD"list=PL4cUxeGkcC9g6m\_6Sld9Q4jzqdqHd2HiD](https://www.youtube.com/watch?v=r6I-Ahc0HB4&list=PL4cUxeGkcC9g6m_6Sld9Q4jzqdqHd2HiD)

**seal vs freeze vs preventExtensions**

<https://github.com/piecioshka/test-freeze-vs-seal-vs-preventExtensions>

**functional programming**

<https://medium.com/javascript-scene/master-the-javascript-interview-what-is-functional-programming-7f218c68b3a0>

**recursion in JS**

<https://www.sitepoint.com/recursion-functional-javascript/>

**some links:->**

<https://stackoverflow.com/questions/2272902/how-can-i-make-var-a-add23-5-work>

<https://stackoverflow.com/questions/705173/what-is-meant-by-first-class-object>

<https://codehandbook.org/how-to-remove-duplicates-from-javascript-array/>