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idiosynchronous





How can you iterate through an object's key-value pairs?





...what is another way to iterate through key-value pairs?

Object.keys(x)
for (var k in x) {x.hasOwnProperty()}





What is strict mode? Name at least 3 things it does.

- forbids global assignment
- forbids improper writes/deletes
- forbids non-unique keys OR params
- forbids octal syntax
- forbids with
- eval can't modify surrounding scope
- this defaults to undefined
- forbids fn.caller, fn.callee
- ...a few other things





How do == and === differ?

== compares only value so if the types are different, it'd still be true

=== compares both value and type





How does prototypal inheritance work?

A prototype for an object is simply an existing object. Any instance will have some implicit reference to the properties on its prototype. In JavaScript this implicit reference is via __proto__.





How does new Thing() differ from Thing()?

new will make a new empty object, assign its __proto__ to Thing.prototype, bind it to this, and then invoke the constructor. Also, it will return this unless the constructor returns some other non-primitive value.





What are JavaScript's six primitive types?

boolean, number, string, null, undefined, and symbol (ES6)





What are JavaScript's six "falsy" values?

false, null, undefined, NaN, 0, ""





What is the difference between unary, binary, and ternary operators? Give an example of each.

- Unary: +, -, typeof, new, instanceof
- Binary: +, -, /, *, %
- Ternary: ?:



9 ![] == [] Why?

Boolean coercion algorithm:

[] == false // convert false to Number

[] == 0 // convert [] to primitive

"" == 0 // convert "" to Number

0 == 0 // true

Short answer: [].toString() is empty string which is falsy.





Describe pass-by-reference versus pass-by-value.

Objects get passed by reference, primitives get passed by value. Pass-by-value means that there is a copy of the entity; pass-by-reference means that there is no copy of the entity itself, only a copy of a reference to it.





What's the difference between host objects and native objects?

Native objects are defined by an ECMAScript implementation. Host objects are defined by the environment. E.g. Math is native, document is host.





typeof null evaluates to what?

'object'

It is a primitive of the type 'null' (the only one with this type). typeof null === 'object' is a known bug in JS which for which a fix was proposed, but rejected (because it would break old websites).





What is typeof NaN?

'number'





When would you use promises as opposed to vanilla callbacks? When the other way around?

(open to interpretation)





Explain/describe event delegation.

In event delegation, an event is registered with a parent or manager, which itself will supervise the emitting/handling or its child/managee.





What is the difference between the .slice and .splice Array methods?

.slice will return a copy of some subsection of the array; .splice will mutate the original array in addition to returning the subsection





What is middleware?

A chain in a link of possibly asynchornous tasks. In express, middleware are functions registered to run upon certain requests.





What does ES6 introduce?

Arrows, classes, template strings, destructuring, param defaults, rest, spread, let, const, for...of, generators, modules, sets, proxies, symbols, promises, reflection, tail calls, various methods





What did ES5 introduce?

- strict mode
- getters/setters
- legal trailing commas
- Object.create, .getPrototypeOf, .defineProperty, .getOwnPropertyDescriptor, .keys, .getOwnPropertyNames, .preven tExtensions, .isExtensible, .seal, .isSealed, .isFrozen, .free ze
- Function.prototype.bind
- Array.prototype.every, .filter, .forEach, .indexOf, .lastInde xOf, .map, .reduce, .some; Array.isArray
- JSON.parse, JSON.stringify





What does it mean that JavaScript is "asynchronous"?

Commands do not necessarily execute in the order in which they are written. This is possible through higher-order functions, and in particular callbacks.





What are the differences between AMD and CommonJS?

CommonJS: require and exports AMD: define and return



What is concurrency and how does JavaScript support it?

Event loop
Environment/host APIs
Callback queue
Many tasks at once
Non-blocking single-threaded
(Blocking multi-threaded)
(Non-blocking multi-threaded)
NOT blocking single-threaded