JavaScript Knowledge

How many questions about JavaScript can you answer?

JavaScript Questions with Answers

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Basic JavaScript Concepts:

What are the five basic data types in JavaScript?

Answer: String, Number, Boolean, Object, Undefined

What is the difference between == and === operators?

Answer: == checks for value equality, === checks for value and type equality.

What are the different ways to declare variables in JavaScript?

Answer: var, let, const

What is hoisting in JavaScript?

Answer: Variables and functions are declared at the top of their scope before any code is executed.

What are the different ways to define functions in JavaScript?

Answer: Function declaration, function expression, arrow function

Advanced JavaScript Concepts:

What are closures in JavaScript and how are they used?

Answer: Closures are functions that have access to the outer function's scope, even after the outer function has finished execution.

Explain the difference between synchronous and asynchronous code in JavaScript.

Answer: Synchronous code executes sequentially, while asynchronous code uses callbacks or promises to handle tasks that take time to complete.

What are regular expressions and how are they used in JavaScript?

Answer: Regular expressions are patterns used for matching text strings. They are commonly used for validation, parsing, and searching data.

What is the DOM and how do you manipulate it with JavaScript?

Answer: The Document Object Model (DOM) is a tree-like structure representing the elements in a web page. JavaScript provides various methods for manipulating the DOM, such as creating, updating, and removing elements.

What are the different types of errors in JavaScript and how do you handle them?

Answer: Syntax errors, runtime errors, logic errors. Handled by try-catch blocks and window.onerror event.

Modern JavaScript:

What are the benefits of using modules in JavaScript?

Answer: Modules help to organize code, improve maintainability, and prevent namespace collisions.

Explain the concept of Promises and how they are used for asynchronous operations.

Answer: Promises are objects that represent the eventual completion (or failure) of an asynchronous operation. They are used to handle the results of asynchronous tasks and ensure code execution in the correct order.

What are the advantages and disadvantages of using async/await syntax in JavaScript?

Answer:

Advantages: Improves code readability and makes it easier to manage asynchronous operations.

Disadvantages: Can be confusing for beginners and requires careful error handling.

What are some popular JavaScript frameworks and libraries, and what are their strengths and weaknesses?

Answer: React, Angular, Vue.js, jQuery. Strengths and weaknesses vary depending on the framework/library.

How do you implement unit testing in JavaScript?

Answer: Popular testing frameworks include Jest and Mocha.

Bonus Questions:

Explain the difference between deep copy and shallow copy in JavaScript.

Answer: Deep copy creates a new object with new memory locations for all its properties and nested objects/arrays. Shallow copy references the same memory locations as the original object's properties.

What is object destructuring in JavaScript?

Answer: Allows extracting specific properties from an object and assigning them to variables.

What are spread syntax and rest parameters in JavaScript?

Answer: Spread syntax (...object) expands an object into its individual properties. Rest parameters collect remaining arguments into an array.

What is the difference between arrow functions and function declarations?

Answer: Arrow functions are anonymous functions with concise syntax. Function declarations require a function name.

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