JavaScript Interview Questions: Variables, Data Types, Data Conversion

Variables

- 1. What is the difference between var, let, and const?
- var: Function-scoped, can be redeclared and reassigned.
- let: Block-scoped, can be reassigned but not redeclared.
- const: Block-scoped, cannot be reassigned or redeclared.
- 2. What is variable hoisting in JavaScript?
- Variables declared with var are hoisted to the top of their scope and initialized with undefined.
- 3. Can you reassign a const variable?
- No, you cannot reassign a const. However, if it holds an object or array, you can modify the contents.
- 4. What is the temporal dead zone?
- The period between entering a block and initializing a let/const variable, during which the variable cannot be accessed.
- 5. What happens when you declare a variable without var, let, or const?
- It becomes a global variable (non-strict mode), which can lead to bugs.

Data Types

- 6. What are the primitive data types in JavaScript?
- string, number, boolean, null, undefined, symbol, bigint
- 7. What is the difference between null and undefined?
- null is an assigned value representing 'no value'.
- undefined means a variable has been declared but not assigned.
- 8. What is the type of NaN?
- 'number'

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- 9. What is the result of typeof null?
 'object' (this is a known bug in JavaScript)

 10. How is == different from ===?
 == compares values with type coercion.
 === compares values and types strictly.

 Data Conversion

 11. What is type coercion in JavaScript?
 It's the automatic or implicit conversion of values from one type to another.

 12. What is the output of "5" + 2 and why?
 '52' because 2 is converted to a string and concatenated.
 - 14. How do you explicitly convert values in JavaScript?
 - Using Number(), String(), Boolean(), parseInt(), parseFloat() etc.

- 3 because '5' is converted to a number and subtraction is performed.

- 15. Which values are falsy in JavaScript?
- false, 0, ", null, undefined, NaN

Bonus

- 16. Is JavaScript statically or dynamically typed?
- Dynamically typed
- 17. Can you assign a number to a variable and later assign a string to the same variable?
- Yes, JavaScript allows variables to change type.

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- 18. What is implicit vs. explicit conversion?
- Implicit: JS auto-converts types (example: '5' + 2 becomes '52').
- Explicit: You use functions like Number(), String(), etc.