9 must-know shorthands for JavaScript

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Destructuring Assignment

Allows you to extract values from arrays or objects into separate variables.

```
const [a, b] = [1, 2];

const { x, y } = { x: 1, y: 2 };
```

destructuring array

destructuring object

Object Property Shorthand

Assigns variables with the same name as object properties automatically.

```
const x = 1;
const y = 2;
const obj = { x, y };
```

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Object Property Value Shorthand

```
const x = 1;
const y = 2;
const obj = { x, y };
```

Assigns object properties with the same name as variables automatically.

Default Parameter Values

Sets default values for function parameters if no argument is provided.

```
function foo(x = 10) {
  console.log(x);
}
foo(); // Output: 10
foo(5); // Output: 5
```

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Arrow Functions

Concise syntax for defining anonymous functions.

```
const add = (a, b) => a + b;
```

Ternary Operator

Evaluates a condition and returns one of two values based on the result.

```
const result = condition ? value1 : value2;
```

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Short Circuit Evaluation

Uses logical operators to conditionally assign values based on truthiness.

```
const value = a || b;
const value = a && b;
```

Template Literals

Enables string interpolation and multiline strings using backticks.

```
const name = "John";
const greeting = `Hello, ${name}!`;
```

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Spread Syntax

Expands arrays or objects into individual elements or properties.

```
const arr = [1, 2, 3];
const newArr = [...arr, 3, 4, 5];
console.log(newArr);
// Output: [1, 2, 3, 4, 5]

const obj = { x: 1, y: 2 };
const newObj = { ...obj, z: 3 };
console.log(newObj);
// Output: { "x": 1, "y": 2, "z": 3 }
```

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