

undefined



null



in JavaScript

[Don't Miss It]

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undefined

- A variable that has been declared but not yet assigned a value.
- JavaScript automatically assigns undefined to variables that are declared but not initialized.
- undefined is of type undefined.

```
JS  
  
let x;  
console.log(x); // Outputs: undefined
```



null

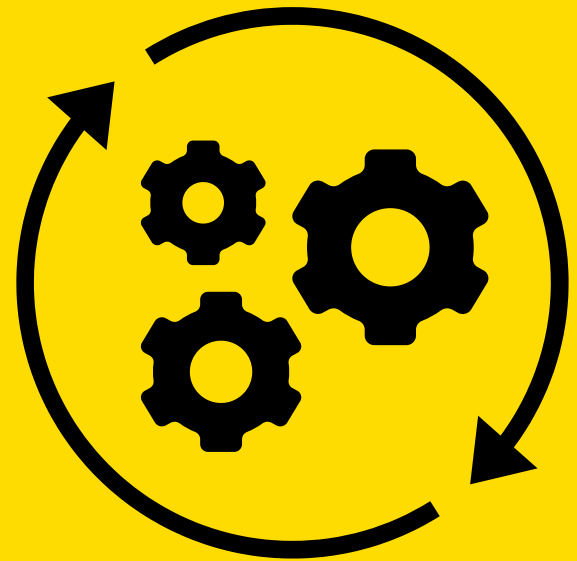
- Represents the intentional absence of any object value. It's a way to clear or reset a variable.
- Developers manually assign null to variables when they want to indicate that the variable should not hold any value.
- Despite being an empty value, null is of type object.

```
let y = null;  
console.log(y); // Outputs: null
```



Automatic vs. Intentional

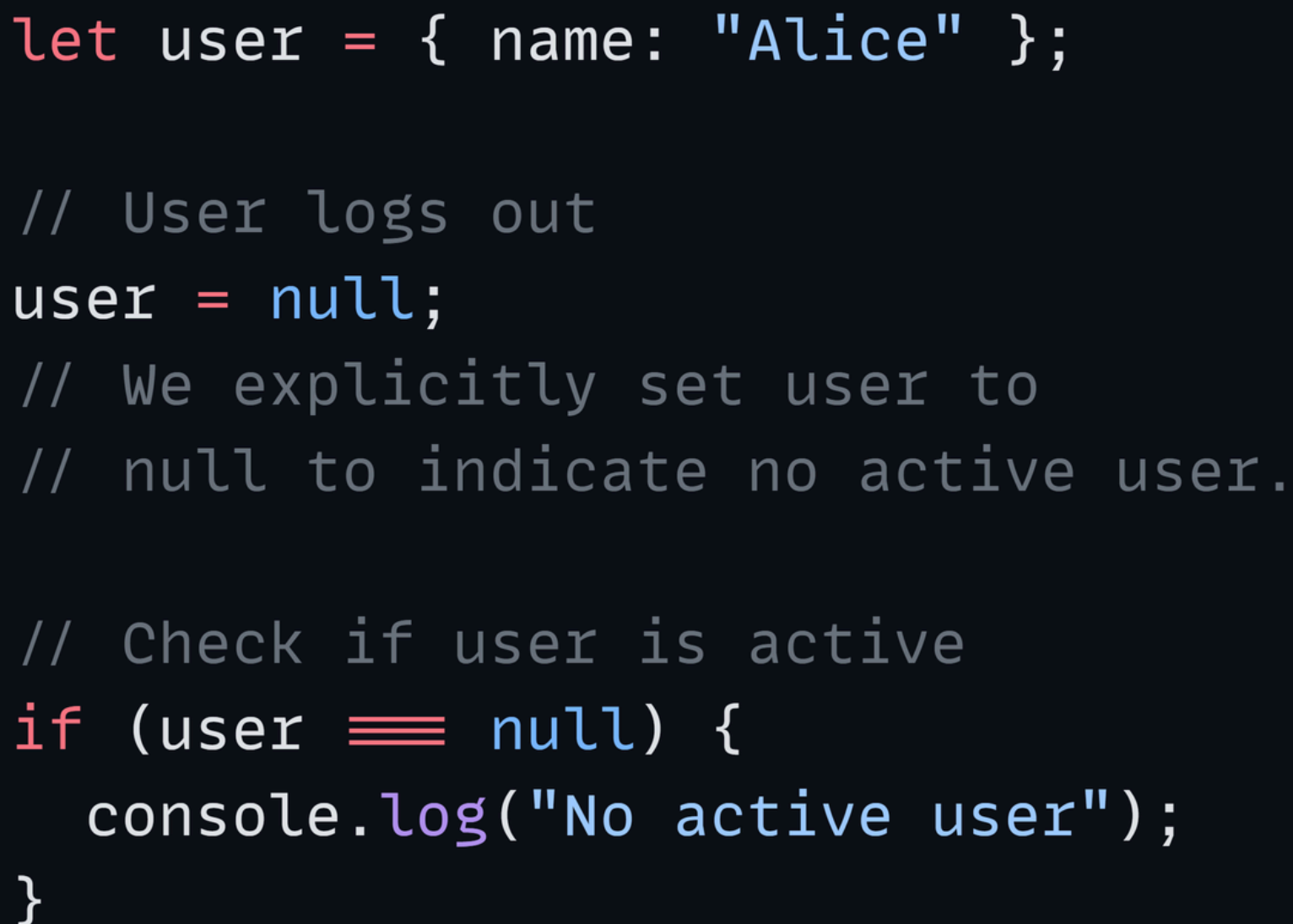
- undefined is automatically assigned by JavaScript when a variable is declared but not initialized.



- null is intentionally assigned by the developer to indicate no value.

Practical Usage

- Typically, you don't assign undefined manually. It's mainly used by JavaScript to indicate a variable hasn't been initialized.
- Use null when you want to explicitly indicate that a variable should hold no value or when you're resetting an object.



```
let user = { name: "Alice" };

// User logs out
user = null;
// We explicitly set user to
// null to indicate no active user.

// Check if user is active
if (user === null) {
  console.log("No active user");
}
```

Don't Forget

```
JS  
console.log(null == undefined)  
// Outputs: true  
console.log(null === undefined)  
// Outputs: false
```

Use strict equality



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