const





freeze



in JavaScript

[Don't Miss It]

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const

- Declares a variable that cannot be reassigned.
- Primarily used to define variables whose value should not change.
- While the reference to the variable cannot change, the contents of objects or arrays defined with const can still be modified.

```
const user = { name: "Alice", age: 30 };
user.age = 31; // This is allowed
// user = { name: "Bob", age: 25 };
// This will throw an error
```



Object.freeze()

- Makes an object immutable, preventing any changes to its properties.
- Used to freeze an object so that its properties cannot be added, removed, or modified.
- It makes the entire object immutable, but does not affect nested objects unless they are also frozen.

```
const user = { name: "Alice", age: 30 };
Object.freeze(user);
user.age = 31; // This will not change the age property
// user.name = "Bob";
// This will also not change the name property
```



Reassignment vs. Modification:

 Object.freeze() prevents any modification to the object's properties.







const prevents
 reassignment of
 the variable itself,
 but allows
 modification of the
 contents if it's an
 object or array.

Practical Usage

- const is great for defining constants or variables that should not be reassigned.
- Object.freeze() is ideal for creating truly immutable objects where no changes should be allowed.



Deep Freeze

 For true immutability, nested objects need to be frozen as well.



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