

# Mutable & Immutable



# Mutable & Immutable

In JS, mutable and immutable refer to the ability of an object or a value to be changed after it has been created.

**Mutable** objects can be modified,

**immutable** objects cannot be modified after they have been created.

Some examples & methods

# Mutable Methods

- `Array.push()`
- `Array.splice()`
- `Array.sort()`
- `Object.assign()`

# Immutable Methods

- `Array.concat()`
- `Array.filter()`
- `Array.map()`
- `Object.freeze()`

# Mutable Methods

```
let mutableArr = [1, 2, 3];  
mutableArr.push(4);  
  
console.log(mutableArr);  
// Output: [1, 2, 3, 4]
```

# Immutable Methods

```
let immutableStr = "hello";  
let newImmutableStr = immutableStr.toUpperCase();  
  
console.log(immutableStr);  
// Output: 'hello'  
  
console.log(newImmutableStr);  
// Output: 'HELLO'
```