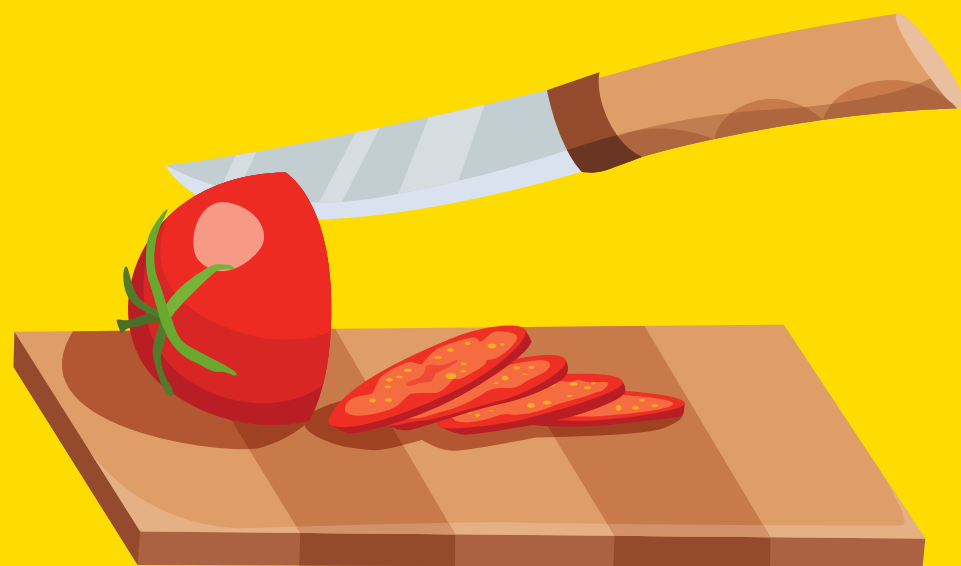


# Splice



# Slice

# in JavaScript

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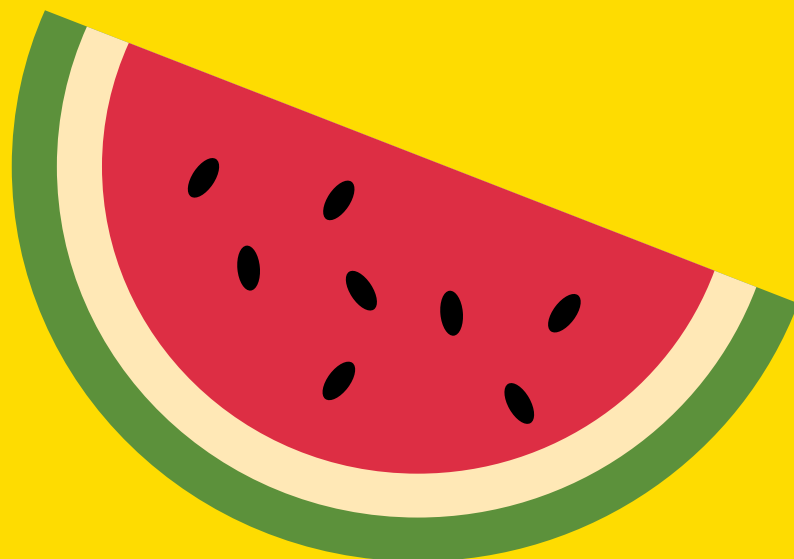


# slice()

- slice() extracts a portion of an array without modifying the original array.
- **Syntax:** array.slice(start, end)
- **Returns:** A new array containing the extracted elements.
- **Original array:** Remains unchanged.

```
JS
let fruits = ['apple', 'banana', 'cherry', 'dates'];
let slicedFruits = fruits.slice(1, 3);

console.log(slicedFruits);
// ['banana', 'cherry']
console.log(fruits);
// ['apple', 'banana', 'cherry', 'dates']
```



# splice()

- splice() changes the content of an array by removing, replacing, or adding elements.
- **Syntax:** array.splice(start, deleteCount, item1, item2, ...)
- **Returns:** An array containing the deleted elements.
- **Original array:** Is modified.

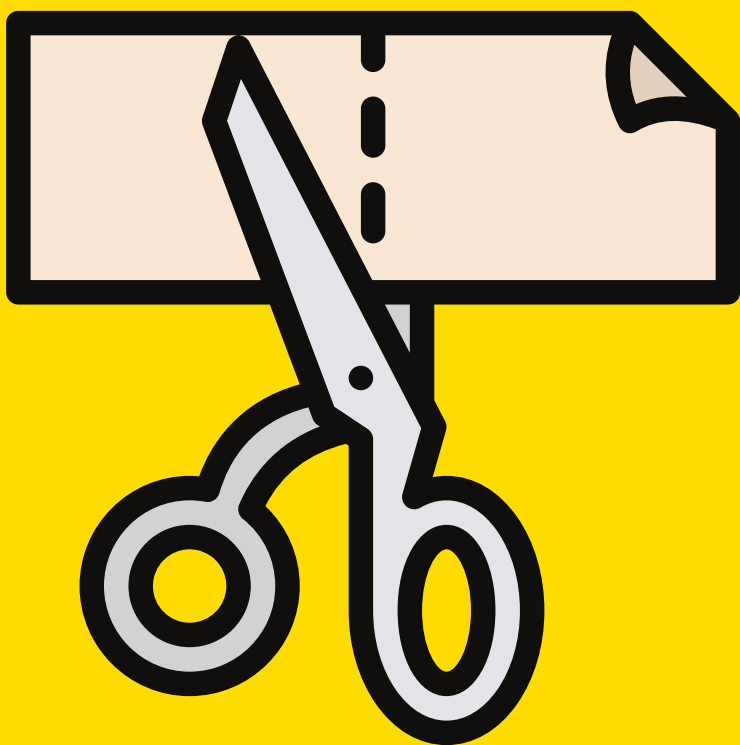
```
JS
let fruits = ['apple', 'banana', 'cherry', 'dates'];
let splicedFruits = fruits.splice(1, 2, 'grape');

console.log(splicedFruits);
// ['banana', 'cherry']
console.log(fruits);
// ['apple', 'grape', 'dates']
```



# Mutation

- `slice()` creates a copy (does not change the original array).



- `splice()` modifies the original array.

# Use Case

- Use `slice()` when you want to extract part of the array without affecting the original.



- Use `splice()` when you need to remove or replace elements and modify the original array.

# Return Values

- `slice()` returns a new array with the selected elements.



- `splice()` returns an array of removed elements.

# Summary

- `slice()` Extracts a portion of an array (non-destructive).



- `splice()` Removes, replaces, or adds elements in an array (destructive).