



Split



Slice



Splice

Aravind G

Ever confused these three JS methods? Let me explain with cake:

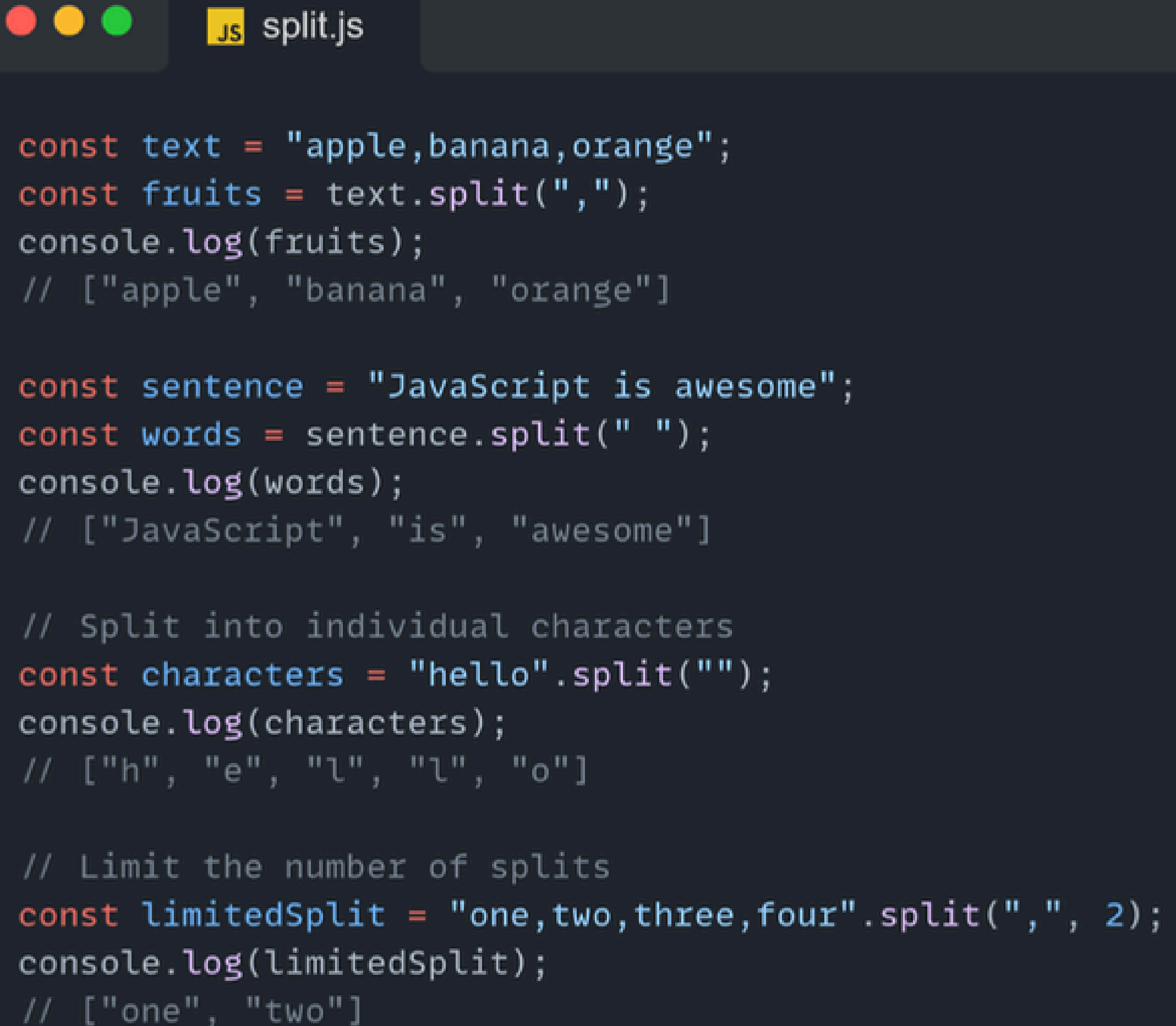


The Cake Recipe When you `split()` a recipe **(string)** into instructions **(array)**



```
"flour,sugar,eggs".split(",") →  
["flour", "sugar", "eggs"]
```

split() - [string method](#) that breaks a string into an array of substrings.



```
const text = "apple,banana,orange";
const fruits = text.split(",");
console.log(fruits);
// ["apple", "banana", "orange"]

const sentence = "JavaScript is awesome";
const words = sentence.split(" ");
console.log(words);
// ["JavaScript", "is", "awesome"]

// Split into individual characters
const characters = "hello".split("");
console.log(characters);
// ["h", "e", "l", "l", "o"]

// Limit the number of splits
const limitedSplit = "one,two,three,four".split(",", 2);
console.log(limitedSplit);
// ["one", "two"]
```

✂ **slice()** (String & array)

When you `slice()` a piece without changing the cake Just taking a portion, original cake stays intact

`cake.slice(1,3)` gives you pieces 1-2
without modifying



slice() is used to extract a portion of an array or string without modifying the original.



JS split.js

```
// With arrays
const numbers = [1, 2, 3, 4, 5];
const sliced = numbers.slice(1, 4);
console.log(sliced); // [2, 3, 4]
console.log(numbers); // [1, 2, 3, 4, 5] - original unchanged

// With negative indices
const lastTwo = numbers.slice(-2);
console.log(lastTwo); // [4, 5]

// With strings
const str = "JavaScript";
const part = str.slice(4, 8);
console.log(part); // "Scri"
```



splice() [Array]

When you splice() you're adding,
removing or replacing pieces Careful!
This one **CHANGES** your original cake!

**[1,2,3,4].splice(1,2,"x") →
[1,"x",4]**



splice() - **Array Method Only** to modify an array by removing, replacing, or adding elements.



js splice.js

```
// Remove elements
const colors = ["red", "green", "blue", "yellow"];
const removed = colors.splice(1, 2);
console.log(removed); // ["green", "blue"]
console.log(colors); // ["red", "yellow"] - original is modified

// Add elements
const days = ["Mon", "Tue", "Thu", "Fri"];
days.splice(2, 0, "Wed");
console.log(days); // ["Mon", "Tue", "Wed", "Thu", "Fri"]

// Replace elements
const scores = [10, 20, 30, 40, 50];
scores.splice(1, 2, 25, 35);
console.log(scores); // [10, 25, 35, 40, 50]
```

Method	Use when	Returns	Modifies Original?
split()	Convert a string to an array	New array	No (strings are immutable)
slice()	Extract a portion without changing original	New array/string	No
splice()	Add, remove, or replace elements in an array	Array of removed elements	Yes



**Save
Post**



<https://github.com/aravindFrontEnd>

Aravind G