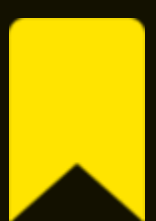


# JavaScript {ES6} Features



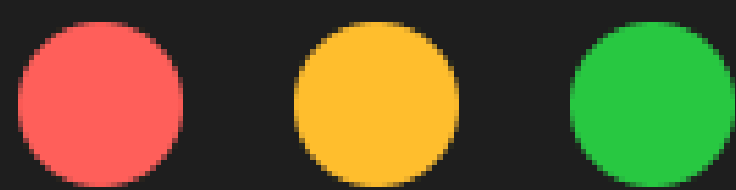
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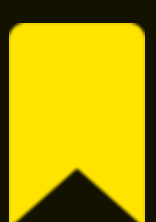


# Arrow Functions



```
1  // ES5 function
2  function add(x, y) {
3      return x + y;
4  }
5
6  //ES6 function
7  const add = (x, y) => x + y;
```

**Explanation:** Arrow Function provides a concise syntax for writing functions, especially useful for **short, one-line** operations.



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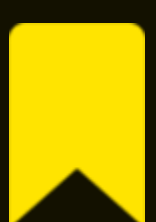


# Template Literals



```
1  const name = "John";  
2  const gretting = `Hello,{name}!`;   
3  
4  console.log(gretting);  
5  
6  result: Hello, John;
```

**Explanation:** Template literals allow embedding expressions inside strings, providing a **cleaner** and more **readable** way to concatenate strings.



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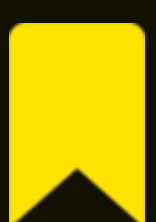


# Destructuring Assignment



```
1  const person = { name: "Alice", age: 25 };
2  //Extracting properties
3
4  const { name, age } = person;
5
6  console.log("Name :", name, "Age :", age);
7
8  //result: Name: Alice Age: 25
```

**Explanation:** Destructuring assignment simplifies the extraction of values from objects or arrays into individual variables.



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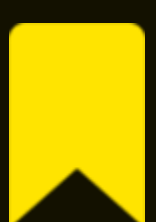


# Spread Operator



```
1  const numbers = [1, 2, 3];  
2  const newNumbers = [...numbers, 4, 5];  
3  
4  console.log("newNumbers :", newNumbers);  
5  
6  //result: newNumbers : [1, 2, 3, 4, 5]
```

**Explanation:** The **spread operator** allows for the expansion of elements making it handy for creating **new arrays** or **objects** based on existing ones.



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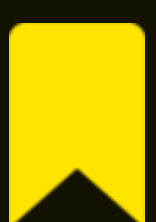


# Rest Parameter



```
1  const sum = (...numbers) => {  
2    return numbers.reduce((acc, num) => {  
3      return acc + num;  
4    }, 0);  
5  };  
6  
7  console.log(sum(1, 2, 3));  
8  // result: 6;
```

**Explanation:** The **rest parameter** allows functions to accept an **indefinite** number of arguments as an array, simplifying parameter handling.



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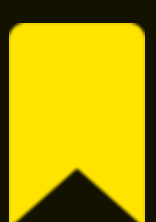
# Async / Await



```
1  const API = "https://api.example.com";
2  const fetchData = async () => {
3    try {
4      const result = await fetch(`${API}/data`);
5      const data = await result.json();
6      console.log(data);
7    } catch (error) {
8      console.log(error);
9    }
10  };

```

**Explanation:** Async/await is a syntax for handling **asynchronous** code more concisely, providing a cleaner alternative to working with Promise.



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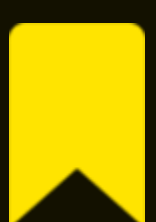


# Map & Set



```
1  //Creating a Map with a key-value pair
2  const numberMap = new Map().set("one", 1);
3
4  //Creating a Set with unique numbers
5  const unique = new Set([1, 2, 3, 2, 1]);
6
7  unique.forEach((number) => console.log(number));
8
9  //Output: 1
10 //         2
11 //         3
```

**Explanation:** Map and Set are new data structures introduced in ES6  
Map is an **ordered** collection of **key-value** pairs,  
and Set is a collection of **unique** values.



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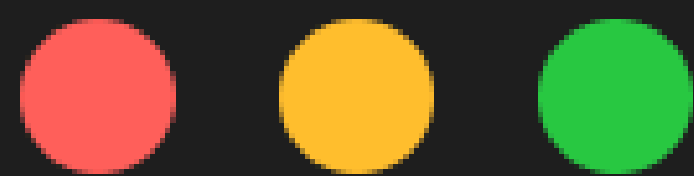
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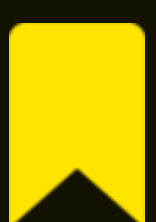


# Default Parameters



```
1  const greet = (name='Guest')=>{  
2    return `Hello ${name}!`;   
3  }  
4  
5  console.log(greet());  
6  //Output: Hello Guest!  
7  
8  console.log(greet('John'));  
9  //Output: Hello John!
```

**Explanation:** Default parameters provide values for function parameters if none are provided, improving flexibility and reducing the need for explicit checks.



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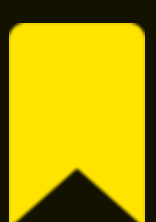


# Modules



```
1  //Exporting module
2  export const myFunction =()=>{...};
3
4  //Importing module
5  import {myFunction} from "../module.js";
```

**Explanation:** ES6 modules provide a **clean** and **organized** way to structure and **import/export** code, improving **maintainability** and **reusability**



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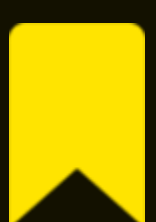


# Map Method



```
1  const numbers = [1, 2, 3, 4, 5];  
2  const doubled = numbers.map((num) => num * 2);  
3  
4  console.log(doubled);  
5  //Result: [2,4,6,8,10]
```

**Explanation:** The **map** method in JavaScript is used to create a **new array** by applying a provided function to **each** element of an **existing** array



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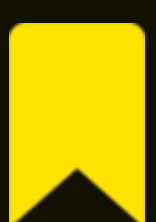


# Filter Method



```
1  const numbers = [1, 2, 3, 4, 5];  
2  const evens = numbers.filter((num) => num % 2 === 0);  
3  
4  console.log(evens);  
5  //Result: [2, 4]
```

**Explanation:** the **filter** method is used to create a **new array** containing only the elements that satisfy a **specified** condition.



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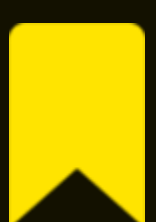


# Reduce Method



```
1  const data = [1, 2, 3, 4, 5];  
2  const sum = data.reduce((acc, num) => acc + num, 0);  
3  
4  console.log(sum);  
5  //Result: 15
```

**Explanation:** The **Reduce** method is used to **accumulate** the elements of an array into **single** value



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