

# Constructing Rest Parameters and the Spread Operator

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# Default Parameters

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# Default Parameters

```
function sayHi(name = 'World') {  
    console.log('Hello ' + name);  
}
```

```
sayHi(); // Hello World
```

```
sayHi('John'); // Hello John
```



# Default Parameters

```
function sayHi(message, name = 'World') {  
    console.log(message + name);  
}  
  
sayHi('Hello'); // Hello World  
sayHi('Hello', 'John'); // Hello John
```



# Demo



## Default Parameters



# Rest Parameters

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# Rest Parameters

```
let sayHi = function greet(...names){  
    names.forEach(name => console.log('Hi ' + name));  
}  
  
let names = ['Mary', 'John', 'James'];  
greet(names);    // Hi Mary, John, James
```



# Rest Parameters

```
let sayHi = function greet(message, ...names){  
  console.log(message + ' everyone!');  
  names.forEach(name => console.log('Hi ' + name));  
}  
  
let names = ['Mary', 'John', 'James'];  
greet('Welcome', names);    // Welcome everyone!  
                             // Hi Mary, John, James
```





# Demo



## Rest Parameters



# Spread operator

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# Spread Operator

```
function greet(person1, person2) {  
    console.log('Hello ' + person1 + ' and ' + person2);  
}  
  
let names = ['John', 'Mary'];  
greet(...names); // Hi John and Mary
```



# Spread Operator

```
function display(char1, char2, char3, char4) {  
    console.log(char1, char2, char3, char4);  
}  
  
let chars = 'abcd';  
  
display(...chars); // a b c d
```



# Demo



## Spread Operator



# Summary



**Setting Default Parameters**

**Defining Rest Parameters**

**Using the Spread Operator**

