



# JavaScript Function Apply

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## Method Reuse

With the `apply()` method, you can write a method that can be used on different objects.

## The JavaScript `apply()` Method

The `apply()` method is similar to the `call()` method (previous chapter).

In this example the **fullName** method of **person** is **applied** on **person1**:

### Example

```
fullName: function() {  
    return this.firstName + " " + this.lastName;  
}  
}  
var person1 = {  
    firstName: "Mary",  
    lastName: "Doe"  
}  
person.fullName.apply(person1); // Will return "Mary Doe"
```

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## The Difference Between call() and apply()

The difference is:

The `call()` method takes arguments **separately**.

The `apply()` method takes arguments as an **array**.

The `apply()` method is very handy if you want to use an array instead of an argument list.

## The apply() Method with Arguments

The `apply()` method accepts arguments in an array:

```
var person = {
  fullName: function(city, country) {
    return this.firstName + " " + this.lastName + "," + city + "," + country;
  }
}
var person1 = {
  firstName: "John",
  lastName: "Doe"
}
person.fullName.apply(person1, ["Oslo", "Norway"]);
```

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Compared with the `call()` method:

## Example

```
var person = {
  fullName: function(city, country) {
    return this.firstName + " " + this.lastName + "," + city + "," + country;
  }
}
var person1 = {
  firstName: "John",
  lastName: "Doe"
```



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## Simulate a Max Method on Arrays

You can find the largest number (in a list of numbers) using the `Math.max()` method:

### Example

```
Math.max(1,2,3); // Will return 3
```

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Since JavaScript **arrays** do not have a `max()` method, you can apply the `Math.max()` method instead.

### Example

```
Math.max.apply(null, [1,2,3]); // Will also return 3
```

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These examples will give the same result:

## Example

```
Math.max.apply(Math, [1,2,3]); // Will also return 3
```

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## Example

```
Math.max.apply(" ", [1,2,3]); // Will also return 3
```

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## Example

```
Math.max.apply(0, [1,2,3]); // Will also return 3
```

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