JavaScript Function Call

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Method Reuse

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

All Functions are Methods

In JavaScript all functions are object methods.

If a function is not a method of a JavaScript object, it is a function of the global object (see previous chapter).

The example below creates an object with 3 properties, firstName, lastName, fullName.

Example

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

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The **this** Keyword

In a function definition, `this` refers to the "owner" of the function.

In the example above, `this` is the **person object** that "owns" the **fullName** function.

In other words, **this.firstName** means the **firstName** property of **this object**.

Read more about the `this` keyword at JS this Keyword.

The JavaScript call() Method

The `call()` method is a predefined JavaScript method.

It can be used to invoke (call) a method with an owner object as an argument (parameter).

With `call()`, an object can use a method belonging to another object.

This example calls the **fullName** method of person, using it on **person1**:

Example

```
var person = {
  fullName: function() {
    return this.firstName + " " + this.lastName;
  }
}
var person1 = {
  firstName:"John",
  lastName: "Doe"
}
var person2 = {
  firstName:"Mary",
  lastName: "Doe"
}
person.fullName.call(person1);  // Will return "John Doe"
```

This example calls the **fullName** method of person, using it on **person2**:

Example

```
var person = {
  fullName: function() {
    return this.firstName + " " + this.lastName;
  }
}
var person1 = {
  firstName:"John",
  lastName: "Doe"
}
var person2 = {
  firstName:"Mary",
  lastName: "Doe"
}
person.fullName.call(person2);  // Will return "Mary Doe"
```

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The call() Method with Arguments

The `call()` method can accept arguments:

Example

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

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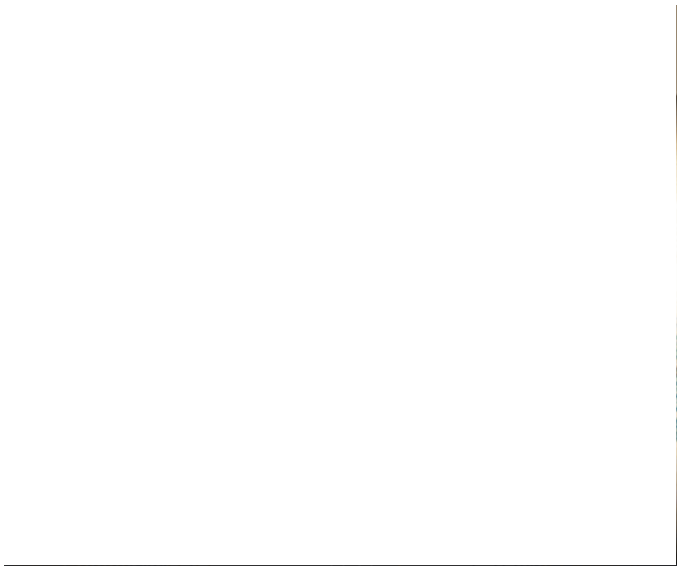

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