



# JavaScript Call(), Apply() & Bind()



Let's Uncover it



# Concept

call, bind, and apply are essential JavaScript methods that allow you to control the value of this in a function. This can be incredibly useful in various scenarios, especially when working with objects or constructors.



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# Call ()

The call() method invokes a function with a given this value and arguments provided one by one.

```
var employee1 = { firstName: "John", lastName: "Rodson" };
var employee2 = { firstName: "Jimmy", lastName: "Baily" };

function invite(greeting1, greeting2) {
  console.log(
    greeting1 + " " + this.firstName + " " + this.lastName + ", " +
    greeting2
  );
}

invite.call(employee1, "Hello", "How are you?");
invite.call(employee2, "Hello", "How are you?");
```



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# Apply ( )

Apply: Invokes the function with a given this value and allows you to pass in arguments as an array.

```
var employee1 = { firstName: "John", lastName: "Rodson" };
var employee2 = { firstName: "Jimmy", lastName: "Baily" };

function invite(greeting1, greeting2) {
  console.log(
    greeting1 + " " + this.firstName + " " + this.lastName + ", " +
    greeting2
  );
}

invite.apply(employee1, ["Hello", "How are you?"]);
invite.apply(employee2, ["Hello", "How are you?"]);
```



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# Bind ()

bind: returns a new function, allowing you to pass any number of arguments.

```
var employee1 = { firstName: "John", lastName: "Rodson" };
var employee2 = { firstName: "Jimmy", lastName: "Baily" };

function invite(greeting1, greeting2) {
  console.log(
    greeting1 + " " + this.firstName + " " + this.lastName + ", " +
    greeting2
  );
}

var inviteEmployee1 = invite.bind(employee1);
var inviteEmployee2 = invite.bind(employee2);
inviteEmployee1("Hello", "How are you?");
inviteEmployee2("Hello", "How are you?");
```



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# Summary

Call and apply are pretty interchangeable.

Both execute the current function immediately. You need to decide whether it's easier to send in an array or a comma separated list of arguments. You can remember by treating Call is for comma (separated list) and Apply is for Array.

Whereas Bind creates a new function that will have this set to the first parameter passed to bind().



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