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Call, Apply, Bind

in JavaScript

Call, apply, and bind are the functions that help you change the context of the **this** keyword present inside the invoking function.

The difference between Call, Apply and Bind can be explained with **examples ahead**.

Explained —→

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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?");
// Hello John Rodson, How are you?

invite.call(employee2, "Hello", "How are you?");
// Hello Jimmy Baily, How are you?
```

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apply()

The `apply()` method 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?"]);
// Hello John Rodson, How are you?

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

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bind()

The `bind()` method 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?");
// Hello John Rodson, How are you?

inviteEmployee2("Hello", "How are you?");
// Hello Jimmy Baily, How are you?
```

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