call(), apply() bind()

Functions | In Detail



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call() Function

 The call method is used to invoke a function with a specified "this" "value and a list of arguments (parameters).

Syntax:

```
function.call(thisArg, arg1, arg2, ...)
```

The first argument (**thisArg**) specifies the value of "**this**" within the function when it is invoked

call() Function | Example

```
const person = {
  fullName: function (location, rollNo) {
    return `${this.firstName} ${this.lastName}
            from ${location}, RollNo ${rollNo}`;
const person1 = {
 firstName: "Arjun",
 lastName: "Mavnoor"
1:
const person2 = {
 firstName: "CodeBustler",
 lastName: "XYZ"
};
console.log(person.fullName.call(person1, "Bangalore", 32));
// Arjun Mavnoor from Bangalore, RollNo 32
console.log(person.fullName.call(person2, "Hyderabad", 54));
// CodeBustler XYZ from Hyderabad, RollNo 54
```

apply() Function

 The apply method is similar to call, but it takes an array-like object of arguments instead of individual arguments.

• Syntax:

```
function.apply(thisArg, [arg1, arg2, ...])
```

array-like object of arguments

apply() Function | Example

```
const person = {
  fullName: function (location, rollNo) {
    return `${this.firstName} ${this.lastName}
            from ${location}, RollNo ${rollNo}`;
const person1 = {
  firstName: "Arjun",
 lastName: "Mavnoor"
};
const person2 = {
  firstName: "CodeBustler",
 lastName: "XYZ"
};
// APPLY
console.log(person.fullName.apply(person1, ["Bangalore", 32]));
// Arjun Mavnoor from Bangalore, RollNo 32
console.log(person.fullName.apply(person2, ["Hyderabad", 54]));
// CodeBustler XYZ from Hyderabad, RollNo 54
```

bind() Function

 The bind method is used to create a new function that, when invoked, has a specified this value and optional arguments.

• Syntax:

```
function.bind(thisArg, arg1, arg2, ...)
```

create a new function

bind() Function | Example

```
const person = {
  fullName: function (location, rollNo) {
    return `${this.firstName} ${this.lastName}
            from ${location}, RollNo ${rollNo}`;
};
const person1 = {
  firstName: "Arjun",
  lastName: "Mavnoor"
};
const person2 = {
  firstName: "CodeBustler",
  lastName: "XYZ"
};
// BIND | Returns Funtions
let p1Detail = person.fullName.bind(person1, ["Bangalore", 32]);
let p2Detail = person.fullName.bind(person2, ["Hyderabad", 54]);
console log(p1Detail());
// Arjun Mavnoor from Bangalore, RollNo 32
console.log(p2Detail());
// CodeBustler XYZ from Hyderabad, RollNo 54
```

Important bullet points

- call and apply set "this" and pass arguments to a function;
 - call uses <u>individual args</u>,
 - apply uses an array of args.
- bind creates a new function with a fixed this & optional args, without immediate execution.
- call and apply invoke functions immediately;
 bind allows delayed execution.

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