

DAY
96
Dev
40

Mycall
MyBird
Myapply
IIFE
Function as object
Closure

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Date → 24 Dec, 21

Day → Friday

let obj = {
 fun1 : function (frnd1, frnd2)
 {
 ^{if object & function}
 ^{STAR}
 ^{1 E}
 }
}

→ console.log ("This person is called "
+ this.fullName +
" His / her age is " +
this.age
+ ".")
}) ;

→ console.log (this.fullName +
" says hello to " +
frnd1 +
".")
}) ;

→ console.log (this.fullName +
" says hello to " +
frnd2 +
.) ;

→ console.log(arguments);

3

fullName: "Sumeet Malik"

age: 34

3;

object 2.

let obj = {

fullName: "Neha"

age: 33

3

SIMPLE CALL

↳ Simple way of calling a function will be used.

→ obj.fun1("Vikas", "Navdeep",
"Jitu", "Rajneesh", "Kapil");

Here, fun1 is called where the first & second argument i.e "Vikas" & "Navdeep" is passed as friend1 & friend2.

Jitu, Rajneesh, Kapil are also passed as arguments.

Output

this
full name
here is
obj. fullname

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- This person is Sumeet Malik. His/her age is 31.
- Sumeet Malik says hello to Vikas.
- Sumeet Malik says hello to Navdeep.
- [Arguments] {
 - '0': 'Vikas',
 - '1': 'Navdeep',
 - '2': 'Jitu',
 - '3': 'Rayneesh',
 - '4': 'Kapil'}

this
age
here
is
obj.
age

CALL() Function

Vikas &
Navdeep
is passed as
friends & friend2
friends & fun1
is fun 1

→ obj.fun1.call(02, "Vikas", "Navdeep", "Jitu",
"Rayneesh", "Kapil");

object2 (02) is
passed here
to override
the default

this
31 this.fullName = "Sumeet Malik"
31 this.age = 31
this.fullName = "Neha"
at STATE OR 02. 02. age = 33

Vikas,
Navdeep,
Jitu,
Rayneesh,
Kapil,

all 5
are passed
as arguments

Output

use \mathbb{E} \mathbb{J}

- This person is called Neha. His/her age is 33.
- Neha says hello to Vikas.
- Neha says hello to Navdeep.
- [Arguments] {
 - '0': 'Vikas',
 - '1': 'Navdeep',
 - '2': 'Jitu',
 - '3': 'Rayneesh',
 - '4': 'Kapil'}

APPLY() FUNCTION

Apply() अटिक
call() में कर्स
इनी difference
कि Apply()
जो argument वार्यमें
स्टेटमें पर्ती हैं

obj1.fun1.apply(02, ["Vikas", "Naveed",
"Jitu", "Rajneesh", "Kapil"]);

02 will
be overtake
the this

we will use 02.fullName &
02.age instead of this.fullName &
this.age.

Vikas, Naveed,
Jitu, Rajneesh, Kapil
are passed in an
array. This array is
considered as
arguments array.

Output

→ This person is called Neha. His/her age is 33.

→ Neha says hello to Vikas.

→ Neha says hello to Naveed.

→ [Arguments] {
0 : 'Vikas',
1 : 'Naveed',
2 : 'Jitu',
3 : 'Rajneesh',
4 : 'Kapil'

BIND() FUNCTION

Simple
call, call() function,
apply() function,
& fun() function call
होता है

Bind से सीधा function call

(comma separated) द्वारा पास करते हैं, जैसे call() में, Bind() में भी एक arguments
द्वारा होता है। Bind में ऐसी arguments
होती हैं। Bind() function द्वारा function returns
होती है।

द्वारा Bound Function

जब इस Bound Function को call करते हैं तो उसमें लिए गए
argument pass करने की प्रक्रिया नहीं किया जाता है।
इस Bound() function में args pass किया जाता है।

`bind()` function →
bound Function →
Function → in return

Bind →
→ arguments →
→ → runs →
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→ `let boundFunction = obj.fun1.bind(02,
"Vikas", "Navdeep",
"Jitu", "Rayneesh", "Kapil");`

→ `boundFunction();`

`boundFunction ("Jasbir", "Pankaj");`

↓ & Pankaj
Jasbir will also
be passed as an argument
but it will be the last
argument.

→ This person is called Neha. His/her age is 33.

→ Neha says hello to Vikas.

→ Neha says hello to Navdeep.

→ Arguments ['0': 'Vikas',
'1': 'Navdeep',
'2': 'Jitu',
'3': 'Rayneesh',
'4': 'Kapil'

3

→ This person is called Neha. His/her age is 33.

→ Neha says hello to Vikas.

→ Neha says hello to Navdeep.

→ Arguments ['0': 'Vikas',
'1': 'Navdeep',
'2': 'Jitu',
'3': 'Rayneesh',
'4': 'Kapil',
'5': 'Jasbir',
'6': 'Pankaj'

3

MYBIND (CUSTOM BIND FUNCTION)

Function.prototype.myBind = function()

↑ this is original function होता है
↑ जो कि उसी पर myBind function call होता है

```

    → let origFun = this;
    → let argsArray = Array.from(arguments);
    → let newThis = argsArray[0];
    → let newParams = argsArray.slice(1);

    → let myFun = Function()
        ↑ myFun function के arguments होंगे
        ↑ more Params
    → let moreParams = Array.from(arguments);
    → let TotalParams = -
        ↑ newParams.concat(moreParams);
        ↑ totalParams
    → origFun.apply(newThis, TotalParams);
        ↑ original function के arguments होंगे (newThis; TotalParams)
        ↑ pass करते हैं
    → return myFun;
        ↑ myFun function की ही return value होगी
  
```

↑ myBind function के arguments होंगे
 ↑ first parameter passed is an object or function
 ↑ Remember that first parameter passed is an object or function
 ↑ to first parameter के arguments होंगे
 ↑ arguments array
 ↑ store

↑ 3

→ O2/Object 2 pass नहीं किया जा सकता null वाला undefined का pass करना ही गलत

→ this changes/overrides करने का एक बड़ी bind use करते हैं

→ let boundFunction = obj.fun).myBind.
(02,
 "Vikas",
 "Navdeep",
 "Jitu",
 "Rajneesh",
 "Kapil"
)';

→ boundFunction ("Jasbir", "Pankaj");

→ Output

→ This person is called Neha.
His/her age is 33.

→ Neha says hello to Vikas.
→ Neha says hello to Navdeep.
[Arguments] S '0' : Vikas
 '1' : Navdeep
 '2' : Jitu
 '3' : Rajneesh
 '4' : Kapil
 '5' : Jasbir
 '6' : Pankaj

MY CALL (CUSTOM CALL FUNCTION)

→ call() function को actually call करता है।

call function की function() return
करने के बारे में bind करता है।

```

let obj = {
    fun1: function (frnd1, frnd2) {
        console.log("This person is called " +
                    + this.fullName +
                    " His/ her age is " +
                    + this.age);
    },
    console.log(this.fullName +
                " Says Hello to " +
                frnd1 +
                " & " +
                frnd2 +
                " !! ");
    console.log(this.fullName +
                " Says Hello to " +
                frnd2 +
                " !! ");
}
console.log(arguments);
  
```

3,
 fullName : "Sunet Malik",
 age: 34

let o2 = {
 fullName: "Neha"
 age: 33}

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this
is
the
object

Now we are making the myCall function

Function.prototype.myCall = function()

Let function f2
my call function
call this off this
then we will make a variable original function
Original this store it to args
store args to args
we are collecting the parameters in an array & that array is stored in args
args array is created arguments to (O2 & all the funds)
arguments

→ let thisForCall = args[0];

Object 2 will override the default this for the function

so this.fullName & this.age को
override करेंगे O2.fullName &
O2.age

→ let params = args.slice(1);

(इसी friends को (O2 की ओटो सभी args की) params पर store कर दिया जाएगा और this (O2)

→ orgFun.apply(thisForCall, params);

apply function called (params के arrays को pass करने के लिए we need to use apply function)

MY CALL WITHOUT USING APPLY

Function.prototype.myCall = function () {

- let orgFun = this;
- let args = Array.from(arguments);
- let thisForCall = args[0];
- let params = args.slice(1);

array आलेगा
in return

→ thisForCall.fun = orgFun;

↓
thisForCall हो द्या. O2 (object 2).

→ basically हमें O2 के fun को

की property add की दी जाएगी

हमें originalFunction^(this) के obj की

स्ट्रिक्टरूल्स - लाइफटाइम डिप.

O2 : { fullName: "Nisha"

age: 33

fun: → orgFun

}

Here orgFun is

a function (जिसी mycall का साथ हो जाएगी)

की fun

होती है

this

→ thisForCall.fun

की सतर्कता है O2.fun

∴ (Nisha, 33) को return करेगा

→ thisForCall : fun(... params);

params का array होगा

उस array के सभी elements,

अलग अलग items होंगे

अतः हमें (...) के items को

thisForCall(02.fun)

तो अब यह हो
fun की
call करेंगे

fun('Vikas', 'Navdeep', 'Jitu',
"Rajneesh", "Kapil")

fun में हो सके items pass होंगे

→ delete thisForCall fun

(02.fun
property को
delete करदू)

Now, we can use our mycall() function

Obj: fun 1:

mycall(02,

"vikas",

"Navdeep",

"Jitu",

"Rajneesh",

"Kapil"

) ;

This will give the same output as the call() function gives.

MY APPLY (CUSTOM Apply function)

Function.prototype.myApply = function()

```
let orgFun = this;  
let args = Array.from(arguments);  
let thisForCall = args[0];  
let params = args[1];
```

thisForCall will be first parameter 02

argument
in array & second parameter

thisForCall.fun = orgFun;

O2(object 2)
it's new property
of thisForCall fun

thisForCall.fun(...params);

O2 fun functions it's items pass as parameters
Array is object elements individual items (all 3)

delete thisForCall.fun;
O2 fun property
it delete that

This gives the same result as apply function gives

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[obj.fun) = myapply(02, ["Vikas", "Navdeep", "Tetu", "Rajneesh", "Kapil"])

arr = [10, 20, 30, 40, 50]

... arr = 10, 20, 30, 40, 50.

list of 5 items
array

Simple array
of elements
→ 10, 20, 30, 40, 50

5 items
पाठ्यक्रम

Using (...)