

## 'this' keyword in Javascript

\* this

Keyword in JS which contains the value of the object on which particular function was called.

Eg: `const obj = {`

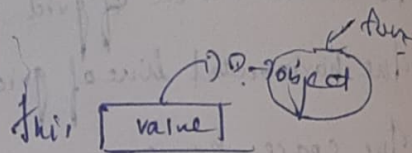
`name: 'foo',`

`sayName: {`

`console.log(this.name);`

`}`

`obj.sayName(); // prints 'foo'`



helpful when there are more than one object that share same prototype & also when using classes.

(1) Value of this inside `sayName` would have been the `obj` -

(1) Should be used always when accessing the members of a class inside the class.

(2) Is set only if invoked directly

The value of this will be set only when the method is called directly from the object.

(2) It does not work

Eg: If you assign it to a different variable & call it.

(3) The value of this depends on whether it is Strict mode  
Normal mode

(3) When accessing outside a function, the value of this will be global object.

Window in browser

global in NodeJS

Q1

Arrow functions don't have this.

This is applicable only inside normal functions.

In arrow functions there is no special this value. It takes whatever is available outside of the arrow function.

In some cases we may want to call function with specific this value.

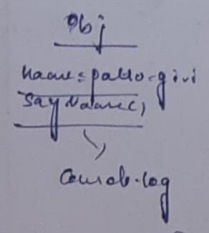
In such cases we can use bind, call, apply.

eg 1

```

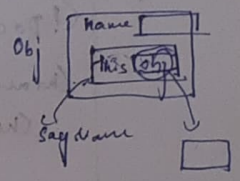
<!DOCTYPE html>
<html>
  <head>
    <script>
      const obj = {
        name: 'pablo-givi',
        sayName: () => {
          console.log(this.name);
        }
      };
      obj.sayName(); // prints 'pablo-givi'
      // Here obj constant is the object
    </script>
  </head>
</html>

```



Obj = ?

this obj

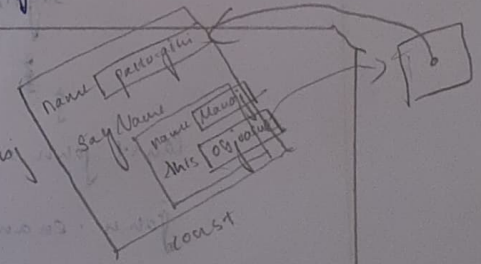


eg 2

```

<!DOCTYPE html>
<html>
  <head>
    <script>
      const obj = {
        name: 'pablo-givi',
        sayName: () => {
          name: 'Mang'; // It will not print the Mang
          console.log(this.name);
        }
      };
      obj.sayName();
      // Here obj constant is the object
    </script>
  </head>
</html>

```



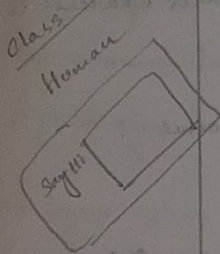
%: pablo-givi



202

Eg3) // I have a doubt in this -

```
<!DOCTYPE html>
<html>
<head>
<script>
```



```
class Human {
    sayHi() {
        console.log(`${this.name} says Hi`);
    }
}
```

```
const john = new Human();
```

```
john.name = 'John';
```

```
john.sayHi(); // John says Hi
```

```
</script>
```

```
</head>
```

```
</html>
```

Eg4) modified program

```
<!DOCTYPE html>
<html>
<head>
<script>
```

```
class Human {
```

```
    sayHi() {
```

```
        console.log(`${this.name} + say Hi`);
    }
}
```

```
const john = new Human();
```

```
john.name = 'John';
```

```
john.sayHi(); // John says Hi
```

```
</script>
```

```
</head>
```

```
</html>
```

Eg5) <!DOCTYPE html>

```
<html>
```

```
<head>
```

```
<script>
```

```
class Fig
```

```
    constructor(name)
```

```
    {
        this.value = value;
    }
}
```

203

double

this.value = this.value \* 2;

}

}

const f2 = new F1(12);

f2.double();

console.log(f2.value);

</script>

</head>

</html>

~X~

It is a keyword

It is a keyword

Not a variable

This refers to

Q. 1

This keyword

Object method → object

refers to owner of function

← Alone → global object

points to particular object

← Function → global object

← Function (Strict mode) → Undefined

← Event → refers to the element that received the event.

← Methods { call, apply, bind } → Any object.

cannot change value of this.