

## WHAT IS IT?

this

```
1 function log () {
2   console.log(this);
3 }
```

#### Global context

```
1 this === window // true
2
3 function log () {
4    console.log(this);
5 }
6
7 log(); // window | undefined in 'use strict';
```

#### **Function context**

```
1 function log () {
2    console.log(this);
3 }
4
5 log(); // window | undefined in 'use strict';
6 const obj = {};
7 obj.log = log;
8 obj.log(); // obj
```

#### Might be lost

```
1 function log () {
2    console.log(this);
3 }
4
5 const obj = {};
6 obj.log = log;
7 (false | obj.log)(); // window | undefined in 'use strict';
```

### Might be lost 2

```
1 const methods = {
2    greet () {
3        console.log(this);
4    }
5 };
6 methods.greet(); // methods
7 const lostContext = methods.greet;
8 lostContext(); // Window
```



call

```
const methods = {
    greet () {
        console.log(this);
    };

methods.greet(); // methods

const lostContext = methods.greet;

lostContext.call(methods); // methods
```

### With arguments

```
1 const methods = {
2    greet (name) {
3        console.log(this, name);
4    }
5 };
6 methods.greet('Stefan');
7 const lostContext = methods.greet;
8 lostContext.call(methods, 'Stefan');
```

apply

```
const methods = {
   greet () {
      console.log(this);
};

methods.greet(); // methods

const lostContext = methods.greet;
lostContext.apply(methods); // methods
```

#### With arguments

```
1 const methods = {
2    greet (name) {
3        console.log(this, name);
4    }
5 };
6 methods.greet('Stefan');
7 const lostContext = methods.greet;
8 lostContext.apply(methods, ['Stefan']);
```

bind

```
const methods = {
    greet (name) {
        console.log(this, name);
};

methods.greet(); // methods
const rescuedContext = methods.greet.bind(methods);
rescuedContext('Oleg'); // methods
```

#### With arguments

```
const methods = {
    greet (name) {
        console.log(this, name);
};
methods.greet(); // methods
const rescuedContext = methods.greet.bind(methods, 'Oleg');
rescuedContext(); // methods
```

## ARROW FUNCTIONS

```
1 const NonArrowHi = function (name) { console.log(`Hi ${name})
```

```
1 const arrowHi = (name) => { return console.log(`Hi ${name}`)
```

```
1 const arrowHiShort = (name) => console.log(`Hi ${name}`);
```

```
const hi = name => console.log(`Hi ${name}`);
```

## **CONTEXT IN ARROW FUNCTIONS**

Always parent context

```
const getThis = () => console.log(this);
getThis() // window
const obj = { getThis };
obj.getThis(); // window
obj.getThis.call({ tellMeWhy: true }); // window
obj.getThis.apply({ tellMeWhy: true }); // window
obj.getThis.bind({ tellMeWhy: true })(); // window
```

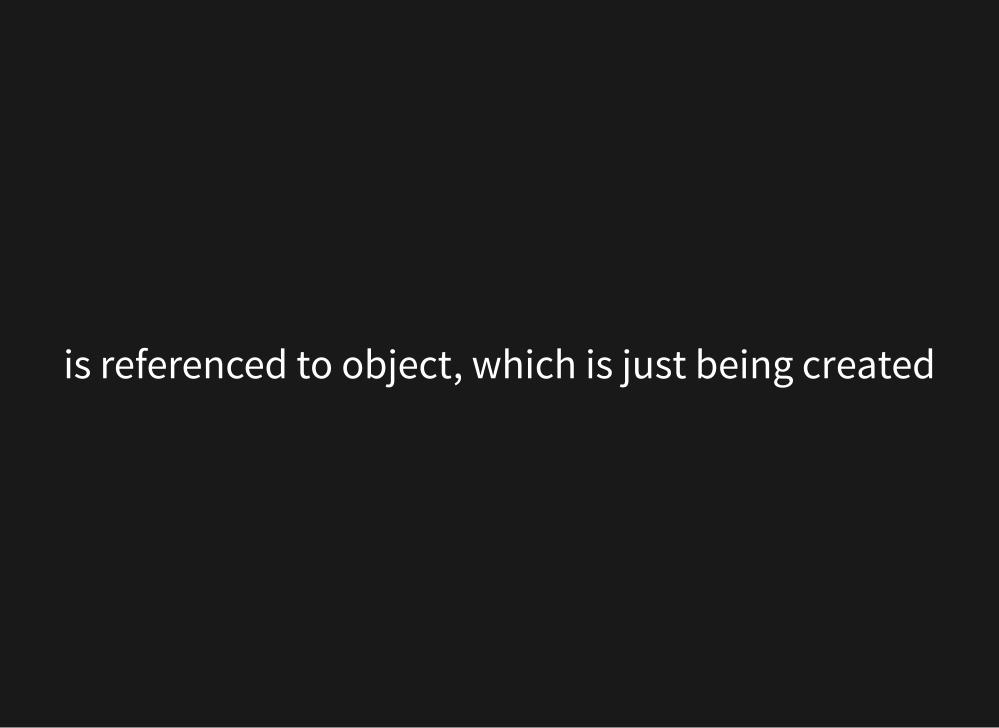
```
const parent = function papa () {
    const getThis = () => console.log(this, arguments);
    return getThis();
};
parent() // window []
parent.call({ tellMeWhy: true }) // { tellMeWhy: true } []
parent.apply({ gr: 1 }, ['argument']) // { gr: 1 } 'argument'
```

```
const obj = {
    method: () => {
        console.log(this);
    }
};

obj.method(); // window
```

## **CONTEXT IN CONSTRUCTOR**

```
class Car {
    constructor () {
        console.log(this);
    }
}
new Car(); // `Car` instance
```



## **CONTEXT SUM UP**

- Global context
- Function context
- Object method context
- Arrow function context
- Constructor context

# MOST KNOWN CONTEXT PATTERN

currying

#### a.k.a partial execution pattern

```
const partial = (func, arguments) => {
    return func.bind(this, ...arguments)
};

const multiply = (mult, a, b) => (a + b) * mult;

const currying = partial(multiply, [2, 5]);
currying(10);
```