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Understanding “this” Keyword

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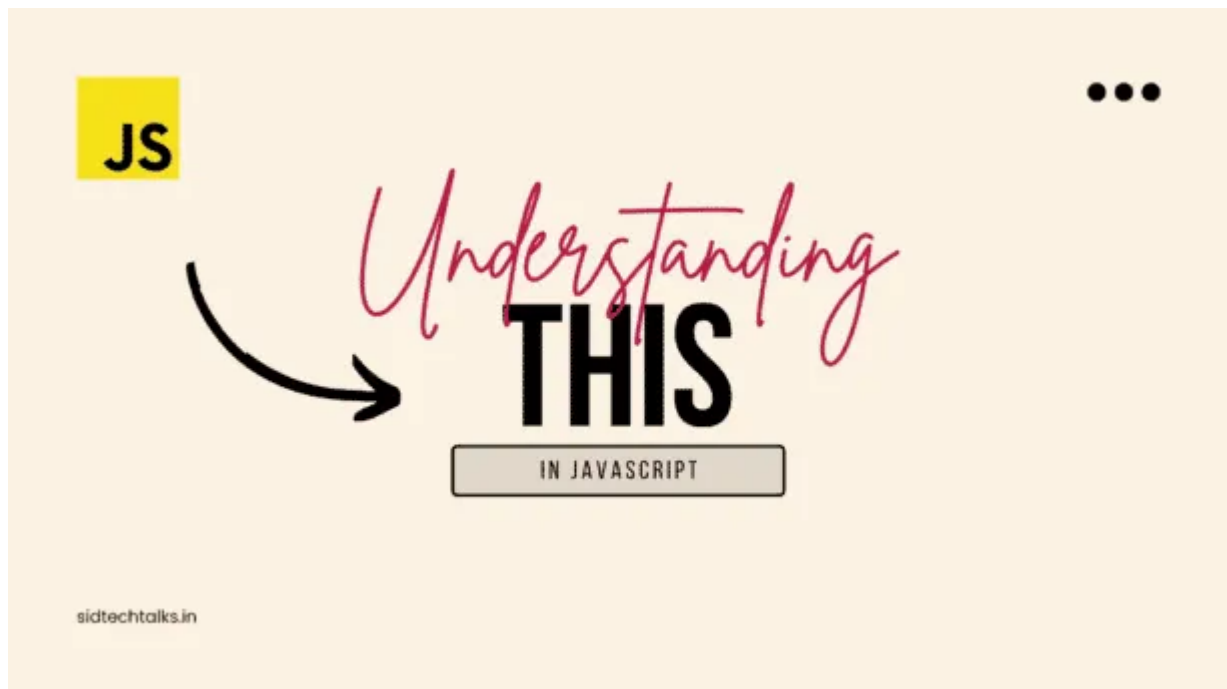
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The `this` keyword in JavaScript is context-dependent, meaning that its value changes based on how and where it is used. It typically refers to the object that is currently executing the code.

👉 **Global Context:** In the global scope, `this` refers to the global object. In browsers, this is the `window` object.

```
console.log(this); // In browser: window
```

👉 **Inside an Object's Method:** When `this` is used inside an object's method, it refers to the object itself.

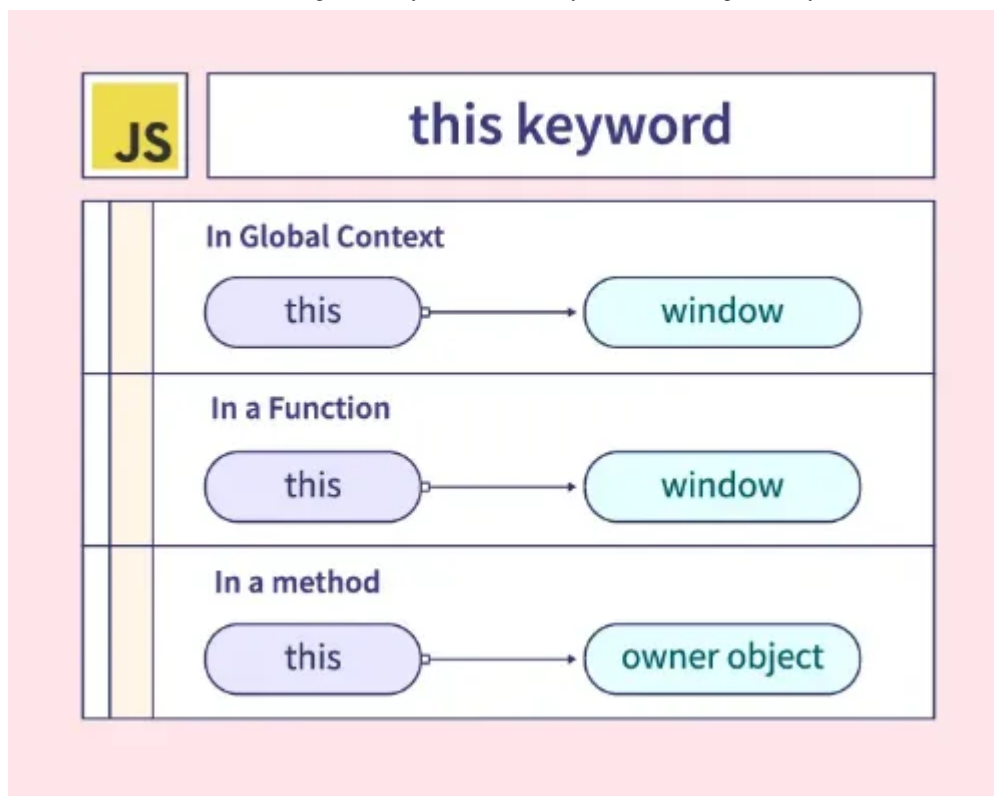
```
const obj = {  
  name: 'Omkar',  
  greet() {  
    console.log(this.name);  
  }  
};  
obj.greet(); // Outputs: 'Omkar'
```

👉 **In a Function (Non-Strict Mode):** When a function is called without any object context, `this` refers to the global object (`window` in browsers).

```
function showThis() {  
  console.log(this);  
}  
showThis(); // In browser: window
```

👉 **In Strict Mode:** In strict mode (`'use strict'`), `this` inside a function will be `undefined` if it is not bound to any object.

```
'use strict';  
function showThis() {  
  console.log(this); // Outputs: undefined  
}  
showThis();
```



★ "this" in Arrow Functions :

Arrow functions behave differently from regular functions with respect to `this`. Arrow functions **do not bind their own `this`**, instead, they inherit `this` from the surrounding lexical context.

Lexical Scoping of `this` : The value of `this` inside an arrow function is determined by the scope in which the arrow function is created, not where it is called. [Arrow function inherit "this" from their surrounding context]

```
age = 26;
this.rollNo = 54;
let school = "NMV";
const obj = {
  name: 'Omkar',
  greet: () => {
    console.log(age); // 26 (age is logged as 26 because it is a variable in t
    console.log(this.rollNo); // 54 ( WIndow Object )
    console.log(school); // NMV (present in outer scope)
    console.log(this); // { rollNo: 54 } ( In browser: window this logs the glo
    console.log(this.name); // < empty string >(because `this` is inherited fro
  }
};
obj.greet();
```

Contrast with Regular Functions : [In regular function "this" binds to the object calling the function]

```
age = 26;

const obj = {
  name: 'Omkar',
  greet() {
    console.log(this.name); // 'Omkar'
    console.log(age); // 26
  }
};
obj.greet();
```

★ Object and `this`:

When a function is called as a method on an object, `this` refers to the object from which the method was called.

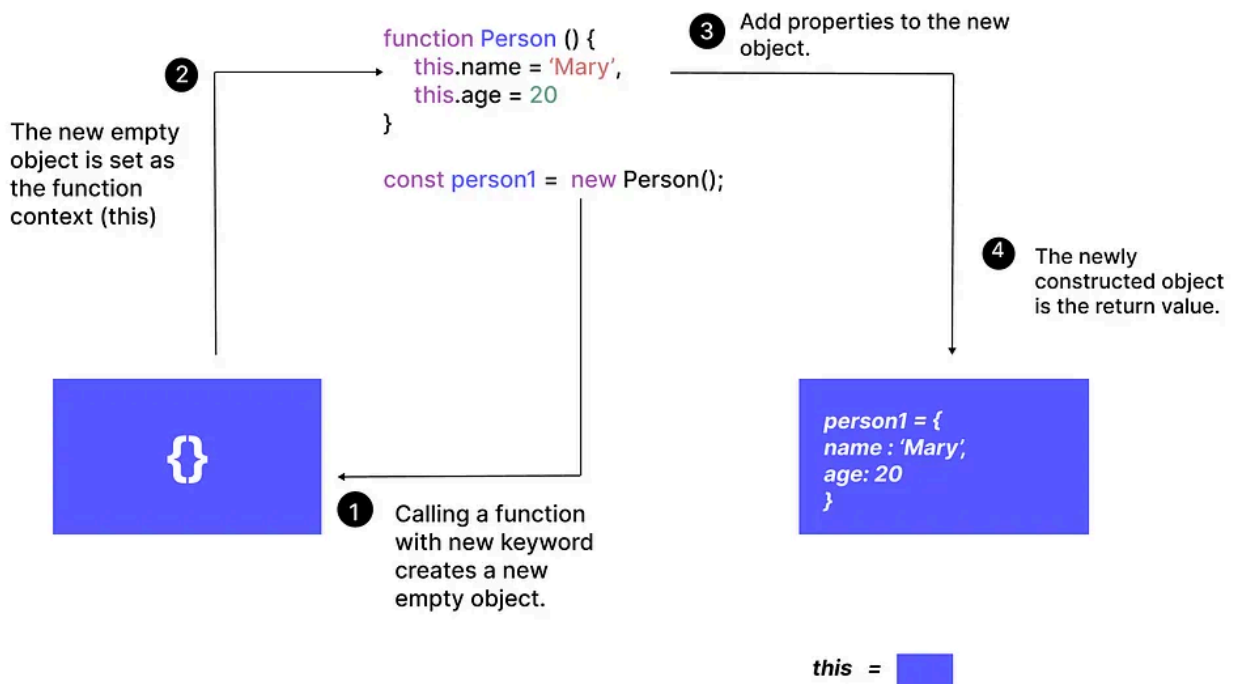
```
this.age=54;
const school="NMV"
const person = {
  name: 'Omkar',
  sayName: function() {
    console.log(this); // { name: 'Omkar', sayName: [Function: sayName] }
    console.log(this.name); // Omkar
    console.log(this.age); // undefined
    console.log(this.school); // undefined
  }
};
person.sayName();
```

```
this.age = 26;
const school = "NMV";
const person = {
  name: 'Omkar',
  sayName: () => {
    console.log(this); // { age : 26 }
    console.log(this.name); // undefined
    console.log(this.age); // 26
    console.log(this.school); // undefined
  }
}
```

```
};
person.sayName();
```

★ Constructor Function and "this" :

A constructor function in JavaScript is used to create objects, and when used with the `new` keyword, `this` refers to the new object being created.



```
function Person(name) {
  this.name = name;
  this.age = 14;
  const rollNo = 33;
  school = "NMV";
}

const person1 = new Person('Omkar');

console.log(person1); // Person { name: 'Omkar', age: 14 }

// rollNo , school is not assigned to 'this' and Hence not accessible outside t
console.log(person1.rollNo); // Outputs: undefined
```

★ Result of accessing it's ref

```
name = "omkar"
function makeUser(){
  const name ="vijay";
  const age=33;
  this.school = "NMV"

  return {
    name: 'om',
    ref: this
  }
}

let user = new makeUser();

console.log(user); // { name: 'om', ref: makeUser { school: 'NMV' } }

console.log(user.ref); // makeUser { school: 'NMV' }

console.log(user.ref.school); // NMV
```

```
const name = "omkar"
function makeUser(){
  this.name ="vijay";
  const age=33;
  this.school = "NMV"
  return {
    name: 'om',
    ref(){
      return this;
    }
  }
}

const newUser = new makeUser();

console.log(newUser); // { name: 'om', ref: [Function: ref] }

console.log(newUser.ref()); // { name: 'om', ref: [Function: ref] }

console.log(newUser.ref().name) // om
```

Overall Summary:

- The `this` keyword in JavaScript is context-dependent, referring to different objects based on how and where the function is invoked.
- Arrow functions inherit `this` from their surrounding context, while regular functions bind `this` to the object calling the function.
- Constructor functions use `this` to reference the new object they are creating.
- Methods inside objects use `this` to refer to the object.

Reference Videos: [Javascript Interview Questions \('this' Keyword \)](#)

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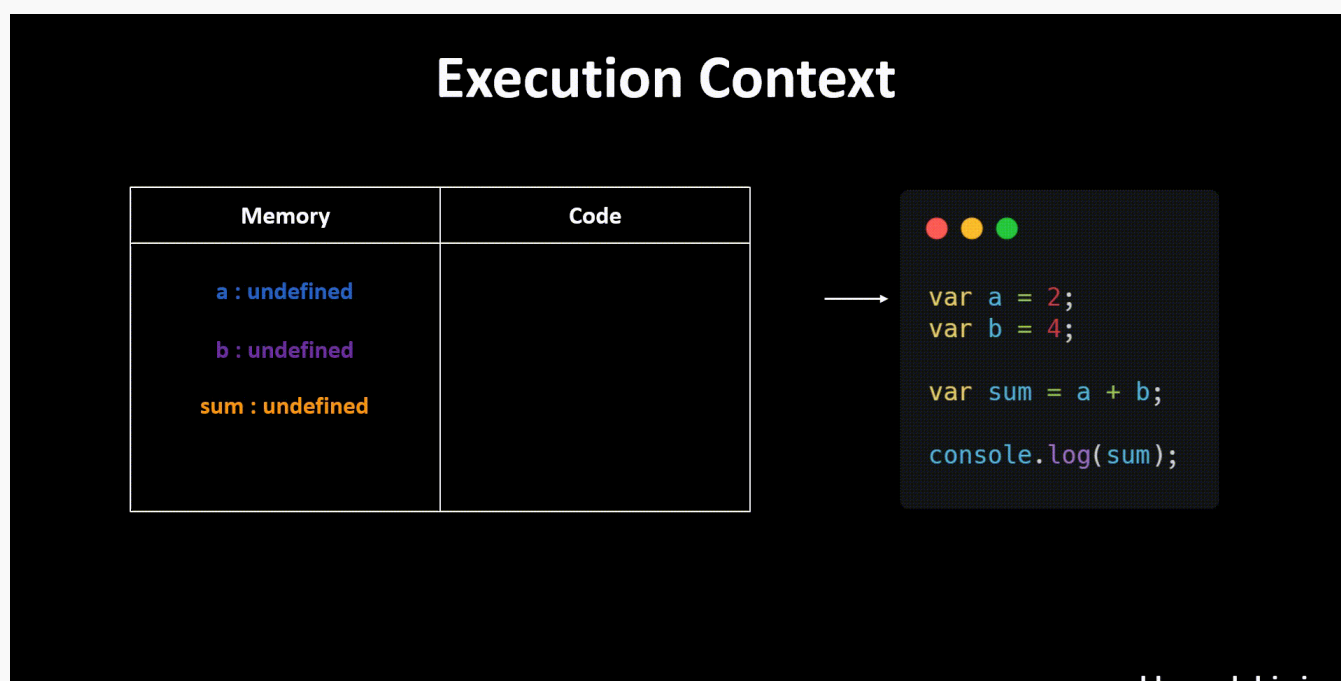




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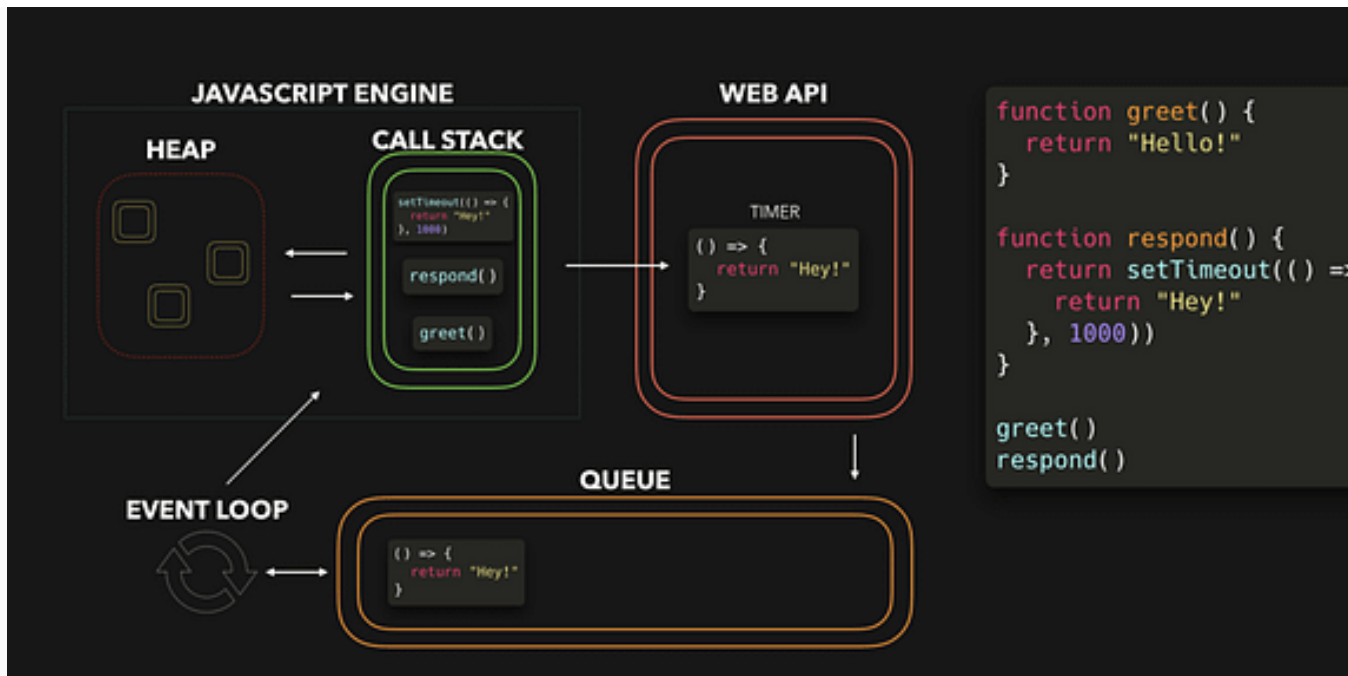



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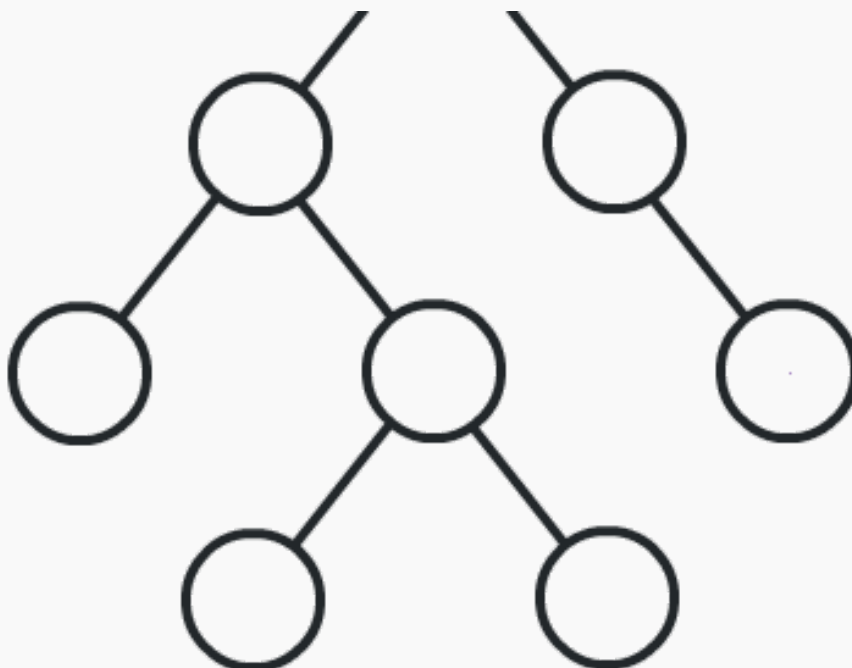



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origins	pre ES2015	ES2015(ES6)	ES2015(ES6)
scope	globally scoped OR function scoped. attached to window object	globally scoped OR block scoped	globally scoped OR block scoped
global scope	is attached to Window object.	not attached to Window object.	attached to Window object.
hoisting	var is hoisted to top of its execution (either global or function) and initialized as <i>undefined</i>	let is hoisted to top of its execution (either global or block) and left uninitialized	const is hoisted to top of its execution (either global or block) and left uninitialized
redeclaration within scope	yes	no	no



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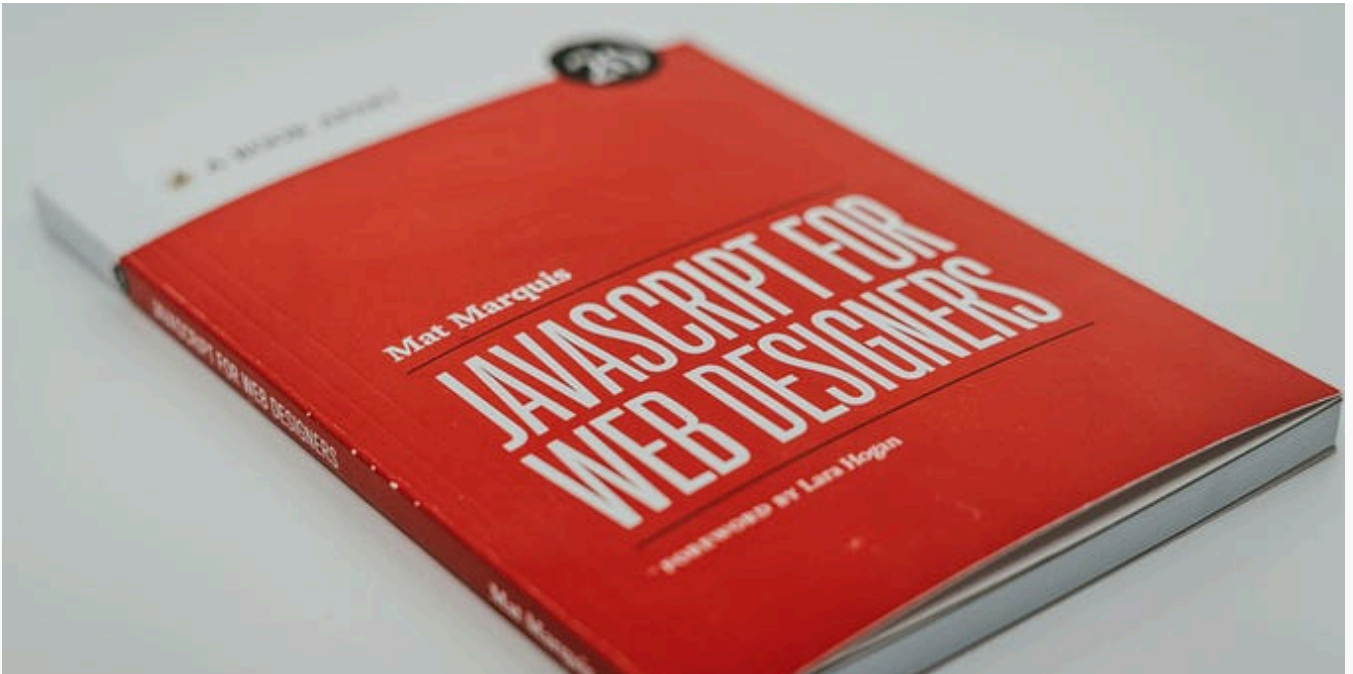
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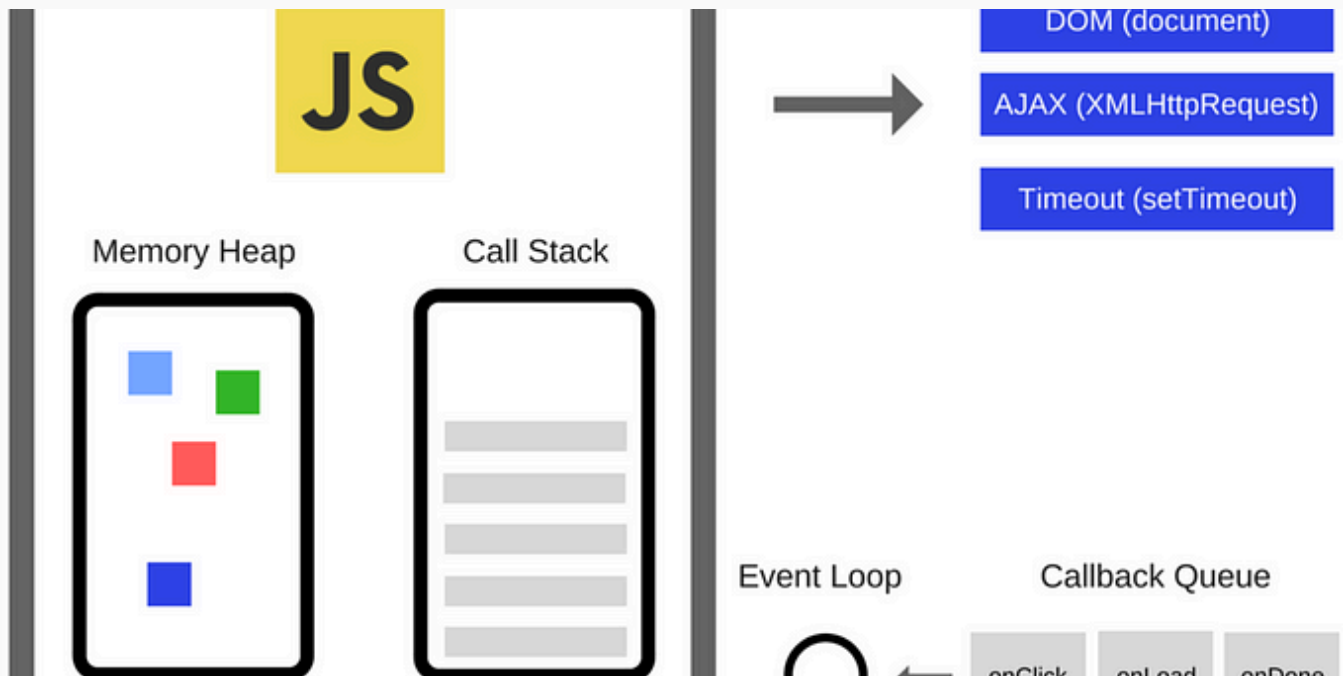



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