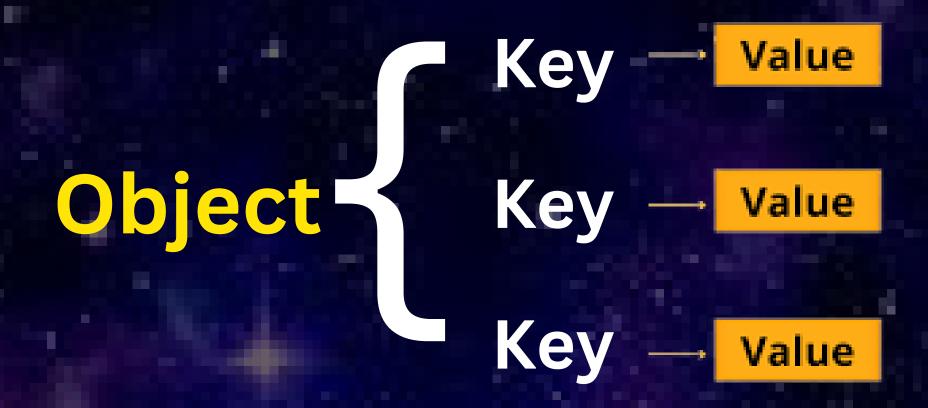
JavaScript

Objects

let myObject = {}









Object Definition

A pair of curly braces { } containing comma , separated key-value pairs represent an object. It is a collection of unordered properties.

The key-value pair inside objects is called property.

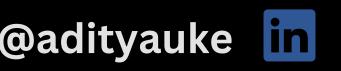
Any property which contains a function definition is known as a method.

```
const myObj = {
    firstName : 'Aditya',
    lastName : 'Uke' // property
    fullName : function () {
       return `My name is ${this.firstName} ${this.lastName}`
    } // method
}
console.log(myObj.fullName()) // My name is Aditya Uke
```

The key must either be a string or a valid identifier.

Values can be of any type.







Creating Objects

• Using object literal { }

```
const myObj = { name: 'Aditya', age: 21 }
```

Using object constructor with new keyword

```
const myObj = new Object()
myObj.name = 'Aditya'
myObj.age = 21
```

Adding properties

```
    Dot Notation '.' myObj.colorOne = 'blue'
```

Bracket Notation '[]' myobj['colorTwo'] = 'red'







Accessing properties

Dot Notation '.' myObj.colorOne // 'blue'

• Bracket Notation'[]' myobj['colorTwo'] //'red'

Always write key inside quotes (' ') while using Bracket notation.

Adding methods

Dot Notation '.'

```
const myObj = { name: 'Aditya' }
myObj.greet = function(){ return `Hello, ${this.name} this side` }
```

Bracket Notation '[]'

```
const myObj = { name: 'Aditya' }
myObj['greet'] = function(){return `Hello, ${this.name} this side`}
```







Accessing Methods

Dot Notation '.'

```
const myObj = {
name: 'Aditya',
greet: function(){ return `HI, I am ${this.name}`}
// ES6 shorthand syntax for defining methods inside an object
job(){ return 'HI, I am a Developer' }
}

console.log(myObj.greet()) // HI, I am Aditya
console.log(myObj.job()) // HI, I am Developer
```

In ES6, shorthand syntax was introduced for defining methods inside an object. In this syntax colon(:) and function keyword are omitted.







Accessing Methods

• Dot Notation '.'

```
const myObj = {
name: 'Aditya',
greet: function(){ return `HI, I am ${this.name}`}
// ES6 shorthand syntax for defining methods inside an object
job(){ return 'HI, I am a Developer' }
}

console.log(myObj.greet()) // HI, I am Aditya
console.log(myObj.job()) // HI, I am Developer
```

In ES6, shorthand syntax was introduced for defining methods inside an object. In this syntax colon(:) and function keyword are omitted.







Getters and Setters

Getters => It is used to get the value of a property. get keyword is used to define a getter method.

```
let user = {
name: "Aditya",
surname: "Uke",

get fullName() {
    return `${this.name} ${this.surname}`;
    }
};

console.log(user.fullName); // Aditya Uke
```







Getters and Setters

Setters => It is used to set the value of a property. set keyword is used to define a setter method.

```
let user = {
name: "Aditya",
surname: "Uke",
get fullName() {
    return `${this.name} ${this.surname}`;
 },
set fullName(value) {
    [this.name, this.surname] = value.split(" ");
};
user.fullname = "Virat Kohli"
console.log(user.fullname) // Virat Kohli
```





