

# Javascript Objects

- description : Javascript Object Accessors
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[Javascript Object Accessors](#)

## JavaScript Accessors (Getters and Setters)

ECMAScript 5 (2009)    Getter    Setters

Getter    Setter    (    )

## JavaScript Getter (The get Keyword)

lang    language    가    (get).

### Example

```
// Create an object
let person = {
  firstName: "John",
  lastName: "Doe",
  language: "en",
  get lang() {
    return this.language;
  }
};
// Display data from the object using a getter:
document.getElementById("demo").innerHTML = person.lang; // en
```

## JavaScript Setter (The set Keyword)

lang                      language                      ( set).

### Example

```
// Create an object
let person = {
  firstName: "John",
  lastName: "Doe",
  language: "No",
  set lang(value) {
    this.language = value;
  }
};
console.log(person); // {firstName: "John", lastName: "Doe", language: "No"}
// Set a property using set:
person.lang = "French";
// Display data from the object:
document.getElementById("demo").innerHTML = person.language; // French
console.log(person); // {firstName: "John", lastName: "Doe", language: "French"}
```

## JavaScript Function or Getter?

2

?

### Example 1

```
// Create an object;
let person = {
  firstName: "Emile",
  lastName: "Darwin",
  fullName: function () {
    return this.firstName + " " + this.lastName;
  }
};
// Display data from the object using a method;
document.getElementById("demo").innerHTML = person.fullName(); // Emile Darwin
```

## Example 2

```
// Create an object;
let person = {
  firstName: "Emile",
  lastName: "Darwin",
  get fullName() {
    return this.firstName + " " + this.lastName;
  }
};
// Display data from the object using a getter;
document.getElementById("demo").innerHTML = person.fullName; // Emile Darwin
```

Example 1 : person.fullName() fullName .

Example 2 : person.fullName fullName .

## Data Quality

JavaScript getter setter .  
, lang language .

## Example

```
// Create an object:
let person = {
  firstName: "Elizabeth",
  lastName: "Taylor",
  language: "en",
  get lang() {
    return this.language.toUpperCase();
  }
};
// Display data from the object using a getter:
document.getElementById("demo").innerHTML = person.lang; // EN
```

lang language .

## Example

```
// Create an object:
let person = {
  firstName: "Elizabeth",
  lastName: "Taylor",
  language: "",
  set lang(lang) {
    this.language = lang.toUpperCase();
  }
};
// Set a property using set:
person.lang = "en";
// Display data from the object:
document.getElementById("demo").innerHTML = person.language; // EN
```

## Why Using Getters and Setters?

- 
- 
- 
- behind-the-scenes

## Object.defineProperty()

Object.defineProperty()      Getter    Setter    가      :

## Example

```
// Define an object
let obj = { counter: 0 };

// Define Setters and Getters
Object.defineProperty(obj, "reset", {
  get: function () { this.counter = 0; }
});

Object.defineProperty(obj, "increment", {
  get: function () { this.counter++; }
});

Object.defineProperty(obj, "decrement", {
```

```
    get: function () { this.counter--; }
  });

Object.defineProperty(obj, "add", {
  set: function (value) { this.counter += value; }
});

Object.defineProperty(obj, "subtract", {
  set: function (value) { this.counter -= value; }
});

// Play with counter:
obj.reset;
console.log(obj); // {counter: 0}

obj.add = 5;
console.log(obj); // {counter: 5}

obj.subtract = 1;
console.log(obj); // {counter: 4}

obj.increment;
console.log(obj); // {counter: 5}

obj.decrement;
console.log(obj); // {counter: 4}

document.getElementById("demo").innerHTML = obj.counter; // 4
```

, [Javascript](#), [Objects](#), [Accessors](#)

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