



JavaScript

Object Essentials



Property Access

Dot Notation: The most common way to access properties. If you have an object `person` with a property name, you can access it with **`person.name`**

Bracket Notation: Useful when property names are dynamic or include characters that can't be used in dot notation.

Example: **`person["first name"]`**

Object Methods

Objects can store functions as properties. These functions are typically called methods when associated with objects.

Within an object method, **this** refers to the object that the method belongs to. However, the value of **this** can change depending on the context in which a function is called.

```
const person = {  
  name: 'John',  
  greet: function () {  
    console.log('Hello, ' + this.name + '!');  
  },  
};  
  
person.greet();  
// Outputs: Hello, John!
```

Object Keys

Object.keys() Returns an array of an object's own enumerable property names.

```
const car = { make: 'Toyota', model: 'Camry' };  
  
console.log(Object.keys(car));  
// Outputs: ["make", "model"]
```


Object Values

Object.values() Returns an array of an object's own enumerable property values.

```
const car = { make: 'Toyota', model: 'Camry' };  
  
console.log(Object.values(car));  
// Outputs: ["Toyota", "Camry"]
```

Object Entries

Object.entries() Returns an array of [key, value] pairs for an object.

```
const car = { make: 'Toyota', model: 'Camry' };  
  
console.log(Object.entries(car));  
// Outputs: [["make", "Toyota"], ["model", "Camry"]]
```

Cloning Objects

Copying objects in JavaScript can be tricky since objects are reference types. To create a shallow copy, you can use the **Object.assign()** method or the spread operator.

```
const carCopy = Object.assign({}, car);  
  
// OR  
  
const carCopy2 = { ...car };
```

Nested Objects

Objects can contain other objects, leading to a hierarchical structure. Accessing nested objects requires chaining property access.

```
const student = {  
  name: 'Alex',  
  address: {  
    street: '123 Main St',  
    city: 'Anytown'  
  },  
};  
  
console.log(student.address.city);  
// Outputs: Anytown
```




Add to Favourites

How many do you know?

@thecodecrumbs

www.codecrumbs.com



Leave a comment

Save for later

