

JavaScript Object Properties

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An Object is an Unordered Collection of Properties

Properties are the most important part of JavaScript objects.

Properties can be changed, added, deleted, and some are read only.

Accessing JavaScript Properties

The syntax for accessing the property of an object is:

```
// objectName.property  
let age = person.age;
```

or

```
//objectName["property"]  
let age = person["age"];
```

or

```
//objectName[expression]  
let age = person[x];
```

```
person.firstname + " is " + person.age + " years old."
```

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```
person["firstname"] + " is " + person["age"] + " years old.";
```

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```
let x = "firstname";  
let y = "age";  
person[x] + " is " + person[y] + " years old.";
```

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Adding New Properties

You can add new properties to an existing object by simply giving it a value:

Example

```
person.nationality = "English";
```

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Deleting Properties

The `delete` keyword deletes a property from an object:

Example

```
    age: 50,  
    eyeColor: "blue"  
};
```

```
delete person.age;
```

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or delete person["age"];

Example

```
const person = {  
  firstName: "John",  
  lastName: "Doe",  
  age: 50,  
  eyeColor: "blue"  
};  
  
delete person["age"];
```

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Note:

The **delete** keyword deletes both the value of the property and the property itself.

After deletion, the property cannot be used before it is added back again.

Nested Objects

Example

```
myObj = {  
  name: "John",  
  age: 30,  
  myCars: {  
    car1: "Ford",  
    car2: "BMW",  
    car3: "Fiat"  
  }  
}
```

You can access nested objects using the dot notation or the bracket notation:

Examples

```
myObj.myCars.car2;
```

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```
myObj.myCars["car2"];
```

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```
myObj["myCars"]["car2"];
```

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```
let p1 = "myCars";  
let p2 = "car2";  
myObj[p1][p2];
```

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For a complete reference, go to our:

[Complete JavaScript Object Reference.](#)

The reference contains descriptions and examples of all Object Properties and Methods.

Exercise [?]

Consider the following object:

```
const car = {  
  brand : 'Volvo',  
  model : 'EX90'  
};
```

What is NOT a correct syntax to alert 'Volvo'?

- ☐ `alert(car[brand])`
- ☐ `alert(car.brand)`
- ☐ `alert(car['brand'])`

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