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JavaScript Objects



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Real Life Objects, Properties, and Methods

In real life, a car is an object.

A car has **properties** like weight and color, and **methods** like start and stop:

Object	Properties	Methods
	car.name = Fiat	car.start()
	car.model = 500	car.drive()
	car.weight = 850kg	car.brake()
	car.color = white	car.stop()

All cars have the same **properties**, but the property values differ from car to car.

All cars have the same **methods**, but the methods are performed at different times.

JavaScript Objects

You have already learned that JavaScript variables are containers for data values.

This code assigns a **simple value** (Fiat) to a **variable** named car:

```
var car = "Fiat";
Try it Yourself »
```



The values are written as **name:value** pairs (name and value separated by a colon).

JavaScript objects are containers for **named values**.

Object Properties

The name:values pairs (in JavaScript objects) are called **properties**.

```
var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};
```

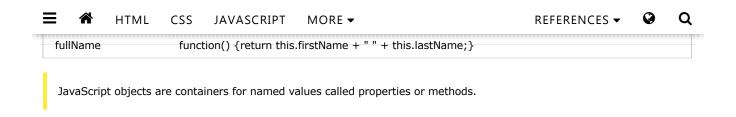
Property	Property Value
firstName	John
lastName	Doe
age	50
eyeColor	blue

Object Methods

Methods are **actions** that can be performed on objects.

Methods are stored in properties as function definitions.

Property	Property Value
firstName	John
lastName	Doe
age	50



Object Definition

You define (and create) a JavaScript object with an object literal:

```
Example

var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};

Try it Yourself »
```

Spaces and line breaks are not important. An object definition can span multiple lines:

```
Example

var person = {
    firstName:"John",
    lastName:"Doe",
    age:50,
    eyeColor:"blue"
};

Try it Yourself »
```

Accessing Object Properties

You can access object properties in two ways:

```
objectName.propertyName
or
```

```
objectName["propertyName"]
```

Example1

Accessing Object Methods

You access an object method with the following syntax:

```
objectName.methodName()

Example

name = person.fullName();

Try it Yourself »
```

If you access a method without (), it will return the function definition:

```
Example

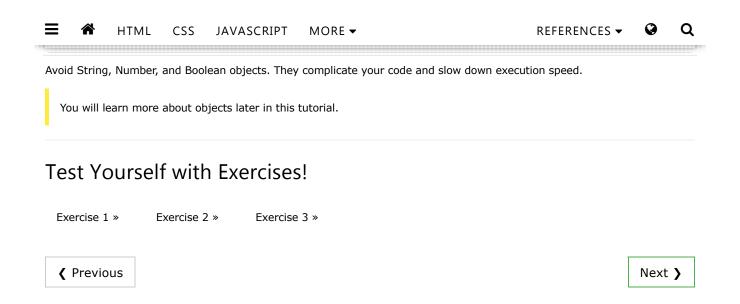
| name = person.fullName;

Try it Yourself »
```

A method is actually a function definition stored as a property value.

Do Not Declare Strings, Numbers, and Booleans as Objects!

When a JavaScript variable is declared with the keyword "new", the variable is created as an object:



COLOR PICKER



HOW TO