

JavaScript Objects

JavaScript Objects

- Objects in JavaScript, just as in many other programming languages, can be **compared to objects in real life.**

JavaScript Objects, Properties, Methods

- A **object** can contain many values.
- A JavaScript **object** has **properties** and **methods**.

REMINDER JavaScript Variables

- JavaScript variables are containers used for storing data in computer's memory.

//car is a VARIABLE

```
var car = "Fiat";
```

JavaScript Object Syntax

name:value pairs (name and value separated by a **colon**).

```
var car = {type:"Fiat", model:"500", color:"white"};
```

JavaScript Object **Properties**

```
car.type = Fiat
```

```
car.model = 500
```

```
car.color = white
```

JavaScript Objects, Properties, Methods

- **EXAMPLE:**
 - **OBJECT:** A car is an object with many properties.
 - **PROPERTIES:** A car has properties like weight and color. All cars have the same properties, but the values are different.
 - **METHODS:** A car has the same methods but are performed at different times.

Creating JavaScript Objects

- JavaScript objects are containers used for storing many named values called **properties**.

```
//Create the car OBJECT
```

```
//car has many names values
```

```
var car = {type:"Fiat", model:"500", color:"white"};
```

```
//The name:values pairs in JavaScript objects are called properties
```


Creating JavaScript Objects

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

Creating JavaScript Objects

// **person** is an **OBJECT** that has many names values

// **properties** can span multiple lines

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

2 Ways of accessing JavaScript Object Properties

objectName.propertyName

Example:

car.type;

person.lastName;

2 Ways of accessing JavaScript Object Properties

objectName["**propertyName**"]

Example:

car["type"];

person["lastName"];

JavaScript Object **Methods**

- **Methods** are **actions** that can be performed on objects.
- A **method** is a **function** stored as a **property**.

Accessing JavaScript Object **Methods**

`car.start()`

`car.drive()`

`car.brake()`

`car.stop()`

JavaScript Object Methods

```
var person = {  
  firstName: "John",  
  lastName : "Doe",  
  id       : 5566,  
  fullName : function() {  
    return this.firstName + " " + this.lastName;  
  }  
};
```

Accessing JavaScript Object Methods

objectName.methodName()

Example:

```
name = person.fullName();
```


Test Yourself With Exercises – JS Objects

- In the W3Schools Tutorial, complete Exercise 1 – 3