

[Tutorials ▼](#)[References ▼](#)[Exercises ▼](#)[Menu ▼](#)[Log in](#)[Website](#) **NEW**[Paid Courses](#)[HTML](#)[CSS](#)[JAVASCRIPT](#)

JavaScript Classes

[◀ Previous](#)[Next ▶](#)

ECMAScript 2015, also known as ES6, introduced JavaScript Classes.

JavaScript Classes are templates for JavaScript Objects.

JavaScript Class Syntax

Use the keyword **class** to create a class.

Always add a method named **constructor()** :

Syntax

```
class ClassName {  
  constructor() { ... }  
}
```

Example

```
class Car {  
  constructor(name, year) {
```

```
    this.name = name;  
    this.year = year;  
  }  
}
```

The example above creates a class named "Car".

The class has two initial properties: "name" and "year".

A JavaScript class is **not** an object.

It is a **template** for JavaScript objects.

Using a Class

When you have a class, you can use the class to create objects:

Example

```
let myCar1 = new Car("Ford", 2014);  
let myCar2 = new Car("Audi", 2019);
```

Try it Yourself »

The example above uses the **Car class** to create two **Car objects**.

The constructor method is called automatically when a new object is created.

The Constructor Method

The constructor method is a special method:

- It has to have the exact name "constructor"
- It is executed automatically when a new object is created
- It is used to initialize object properties

If you do not define a constructor method, JavaScript will add an empty constructor method.

Class Methods

Class methods are created with the same syntax as object methods.

Use the keyword `class` to create a class.

Always add a `constructor()` method.

Then add any number of methods.

Syntax

```
class ClassName {  
  constructor() { ... }  
  method_1() { ... }  
  method_2() { ... }  
  method_3() { ... }  
}
```

Create a Class method named "age", that returns the Car age:

Example

```
class Car {  
  constructor(name, year) {  
    this.name = name;  
    this.year = year;  
  }  
  age() {  
    let date = new Date();  
    return date.getFullYear() - this.year;  
  }  
}
```

```
}  
  
let myCar = new Car("Ford", 2014);  
document.getElementById("demo").innerHTML =  
"My car is " + myCar.age() + " years old.";
```

[Try it Yourself »](#)

You can send parameters to Class methods:

Example

```
class Car {  
  constructor(name, year) {  
    this.name = name;  
    this.year = year;  
  }  
  age(x) {  
    return x - this.year;  
  }  
}  
  
let date = new Date();  
let year = date.getFullYear();  
  
let myCar = new Car("Ford", 2014);  
document.getElementById("demo").innerHTML=  
"My car is " + myCar.age(year) + " years old.";
```

[Try it Yourself »](#)

Browser Support

The following table defines the first browser version with full support for Classes in JavaScript:

--	--	--	--	--

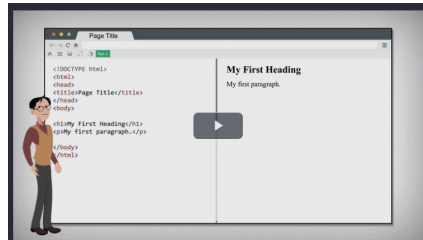
Chrome 49	Edge 12	Firefox 45	Safari 9	Opera 36
Mar, 2016	Jul, 2015	Mar, 2016	Oct, 2015	Mar, 2016

You will learn a lot more about JavaScript Classes later in this tutorial.

[< Previous](#)[Next >](#)

NEW

**We just launched
W3Schools videos**



Explore now

COLOR PICKER



**Get certified
by completing**

a course today!



Get started

CODE GAME



Play Game

[Report Error](#)

[Forum](#)

[About](#)

[Shop](#)

Top Tutorials

[HTML Tutorial](#)
[CSS Tutorial](#)
[JavaScript Tutorial](#)
[How To Tutorial](#)
[SQL Tutorial](#)

Top References

[HTML Reference](#)
[CSS Reference](#)
[JavaScript Reference](#)
[SQL Reference](#)
[Python Reference](#)

[Python Tutorial](#)
[W3.CSS Tutorial](#)
[Bootstrap Tutorial](#)
[PHP Tutorial](#)
[Java Tutorial](#)
[C++ Tutorial](#)
[jQuery Tutorial](#)

Top Examples

[HTML Examples](#)
[CSS Examples](#)
[JavaScript Examples](#)
[How To Examples](#)
[SQL Examples](#)
[Python Examples](#)
[W3.CSS Examples](#)
[Bootstrap Examples](#)
[PHP Examples](#)
[Java Examples](#)
[XML Examples](#)
[jQuery Examples](#)

[W3.CSS Reference](#)
[Bootstrap Reference](#)
[PHP Reference](#)
[HTML Colors](#)
[Java Reference](#)
[Angular Reference](#)
[jQuery Reference](#)

Web Courses

[HTML Course](#)
[CSS Course](#)
[JavaScript Course](#)
[Front End Course](#)
[SQL Course](#)
[Python Course](#)
[PHP Course](#)
[jQuery Course](#)
[Java Course](#)
[C++ Course](#)
[C# Course](#)
[XML Course](#)

[Get Certified »](#)

W3Schools is optimized for learning and training. Examples might be simplified to improve reading and learning. Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using W3Schools, you agree to have read and accepted our [terms of use](#), [cookie and privacy policy](#).

Copyright 1999-2022 by Refsnes Data. All Rights Reserved.
W3Schools is Powered by W3.CSS.

