

JavaScript Classes

JavaScript Class Syntax

Use the keyword `class` to create a class.

Always add a method named `constructor()`:

Syntax

```
class ClassName
```

```
{
```

```
  constructor()
```

```
{
```

```
...
```

```
}
```

```
}
```

Constructor Example :- save file name example1.html :-

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>JavaScript Classes</h1>
```

```
<p>Creating two car objects from a car class:</p>
```

```
<p id="demo"></p>
```

```
<script>
```

```
class Car {  
  constructor(name, year) {  
    this.name = name;  
    this.year = year;  
  }  
}  
  
const myCar1 = new Car("Ford", 2014);  
const myCar2 = new Car("Audi", 2019);  
  
document.getElementById("demo").innerHTML =  
myCar1.name + " " + myCar2.name;  
</script>  
  
</body>  
</html>
```

Output:-

JavaScript Classes

Creating two car objects from a car class:

Ford Audi

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:-

```
<!DOCTYPE html>

<html>

<body>

<h1>JavaScript Class Methods</h1>

<p>How to define and use a Class method.</p>

<p id="demo"></p>

<script>

class Car {

  constructor(name, year) {

    this.name = name;

    this.year = year;

  }

  age() {

    const date = new Date();

    return date.getFullYear() - this.year;

  }

}

const myCar = new Car("Ford", 2014);

document.getElementById("demo").innerHTML =

"My car is " + myCar.age() + " years old.";
```

```
</script>
```

```
</body>
```

```
</html>
```

Output:-

JavaScript Class Methods

How to define and use a Class method.

My car is 9 years old.

You can send parameters to Class methods:-

Example

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>JavaScript Class Method</h1>
```

```
<p>Pass a parameter into the "age()" method.</p>
```

```
<p id="demo"></p>
```

```
<script>
```

```
class Car {
```

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

```
    this.name = name;
```

```
    this.year = year;
```

```
}  
  
age(x) {  
    return x - this.year;  
}  
}  
  
const date = new Date();  
  
let year = date.getFullYear();  
  
const myCar = new Car("Ford", 2014);  
  
document.getElementById("demo").innerHTML=  
"My car is " + myCar.age(year) + " years old."  
  
</script>  
  
</body>  
  
</html>
```

Output:-

JavaScript Class Method

Pass a parameter into the "age()" method.

My car is 9 years old.