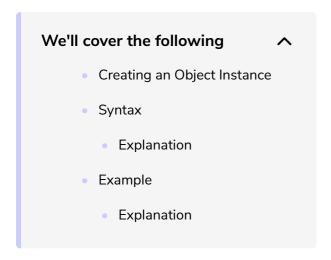
### **Object Instances**

This lesson teaches us how to create object instances using constructor functions by explaining the syntax and giving an example.



In the previous lesson, we learned how to create a *constructor function* and how all objects created using this will contain the properties defined inside the constructor. Now let's discuss how to create objects using the *constructor function*.

## Creating an Object Instance #

Every time a *new object* is created, it is referred to as a new *instance*. As discussed earlier, multiple object instances can be generated using constructor functions.

## Syntax #

Let's take a look at the syntax for creating an object:

Syntax for creating an object instance

#### Explanation #

- The *keyword* new is used to create a new object.
- That is followed by the *constructor function* being called with the required *arguments* passed into it. This is why the code in the *constructor function* executes every time a new object is instantiated.
- An object will then be returned which will be stored inside a variable, that is, <a href="ObjectName">ObjectName</a> in the above case.
- Each *new* object created will store the argument values passed into the constructor function.

## Example #

Now let's create new objects using the Employee constructor function:

```
//function constructor called Employee
function Employee(_name, _age, _designation){
 this.name = _name
 this.age = _age
 this.designation = _designation
}
//creating an object called employeeObj1
var employeeObj1 = new Employee('Joe', 22, 'Developer')
//displaying properties of employeeObj1
console.log("Name of employee:",employeeObj1.name)
console.log("Age of employee:",employeeObj1.age)
console.log("Designation of employee:",employeeObj1.designation)
//creating another object called employeeObj2
var employeeObj2 = new Employee('Amy', 28, 'Engineer')
//displaying properties of employeeObj2
console.log("Name of employee:",employeeObj2.name)
console.log("Age of employee:",employeeObj2.age)
console.log("Designation of employee:",employeeObj2.designation)
```





# **Employee Blueprint** designation name: Joe name: Amy age: 22 age: 28 designation: Developer designation: Engineer employeeObj1 employeeObj2 **Objects**

#### **Explanation** #

- In line 9 and line 17 two new objects are created.
- Specific arguments for both the objects are passed into the constructor function, <a href="Employee">Employee</a>.
- In **line 9** Joe, 22 and Developer are being passed as name, age and designation for employeeObj1.
- In **line 17** Amy, 28 and Engineer are being passed as name, age and designation for employeeObj2.
- When the Employee *constructor* function executes the object properties for both employee0bj1 and employee0bj2, store the arguments passed into the Employee constructor in lines 9 and 17.
- The properties of an object are accessed by making a call to the object

using that object's name, employeeObj1 and employeeObj2 in our example,

followed by the property name. This can be seen in **lines 12-14** for <a href="mailto:employee0bj1">employee0bj1</a> and **lines 20-22** for <a href="mailto:employee0bj2">employee0bj2</a>.

Even though both <code>employeeObj1</code> and <code>employeeObj2</code> contain the same properties, both objects are created separately with their own specific arguments passed into the constructor, where <code>this</code> is used to assign them to the relevant properties. Hence, they are independent of each other, and upon access, they display their own property values, as discussed in the <code>previous</code> lesson.

In the next lesson, let's learn how to add new properties to a constructor function.