# (10.0.0) ES6 Intermediate - Constructor - Create

### **Understanding JavaScript Constructors: The Building Blocks of Objects**

JavaScript, as a versatile and widely-used programming language, allows developers to create and manipulate objects effortlessly. To achieve this, JavaScript employs constructors, which are essential building blocks for creating objects with predefined properties and behaviors. In this article, we will dive deep into JavaScript constructors, explore their significance, and provide practical examples to illustrate their usage.

#### What is a Constructor in JavaScript?

In JavaScript, a constructor is a special function used to create and initialize objects. Constructors serve as blueprints for object creation, defining the structure and properties an object will possess. They enable you to create multiple objects with similar characteristics efficiently, promoting code reusability and organization.

#### **Creating a Constructor**

To create a constructor in JavaScript, you define a function and use the this keyword to set properties for the objects it will construct. Here's a basic example of a constructor for a Person object:

```
function Person(name, age) {
this.name = name;
this.age = age;
}
```

In this example, we've defined a Person constructor that takes two parameters, name and age, and assigns them as properties to the constructed Person objects using this.

## Using the new Keyword

To create an instance of an object from a constructor, you use the <u>new</u> keyword followed by the constructor function's name:

```
const person1 = new Person('Alice', 30);
const person2 = new Person('Bob', 25);
```

Here, <a href="person1">person1</a> and <a href="person2">person2</a> are two instances of the <a href="person">Person</a> object created using the <a href="person">Person</a> constructor. Each instance has its own <a href="mailto:name">name</a> and <a href="mailto:age">age</a> properties.

#### **Constructor Best Practices**

Here are some best practices for working with constructors in JavaScript:

- 1. **Use PascalCase for Constructor Names**: It's a convention in JavaScript to capitalize the first letter of constructor functions to distinguish them from regular functions.
- 2. **Add Properties Directly or Use Prototypes**: You can either add properties directly within the constructor or use prototypes for shared methods and properties, depending on your use case.
- 4. **Avoid Global Variables**: Constructors should not create global variables unintentionally. Use the new keyword to ensure that new instances are created.