

# OBJECTS IN JAVASCRIPT

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# OBJECTS IN JS

- In JavaScript, objects are collections of key-value pairs.
- They are one of the fundamental data types in the language and are widely used for storing and organizing data.
- Here's how you can create and work with object key-value pairs in JavaScript:
  - Creating objects
  - Accessing Objects
  - Adding
  - Deleting
  - Methods

# CREATING OBJECTS

## ○ Method – 1

```
const person = {  
  name: "John",  
  age: 30,  
  city: "New York"  
};
```

## ○ Method – 2

```
const car = new Object();  
car.make = "Toyota";  
car.model = "Camry";  
car.year = 2020;
```

# ACCESSING VALUES

- Syntax:
  - Objectname.value

```
console.log(person.name); // Output: John  
console.log(car["make"]); // Output: Toyota
```

# ADDING / MODIFYING

- Adding elements

- Syntax:

- Objectname.attribute = value;

- Modify elements

- Syntax:

- Objectname[attribute]= value;

```
person.gender = "Male";  
car["color"] = "Blue";
```

# DELETING PROPERTIES

- DELETING ATTRIBUTE

- Syntax:

- Delete Objectname.attribute;

- DELETING ATTRIBUTE

- Syntax:

- Delete Objectname[attribute];

```
delete person.city;  
delete car["year"];
```

# OTHER METHODS

- JavaScript objects also have built-in methods for various operations.
- Some common ones include `Object.keys()`, `Object.values()`, and `Object.entries()`.

```
const keys = Object.keys(person); // Returns an array of keys
const values = Object.values(person); // Returns an array of values
const entries = Object.entries(person); // Returns an array of key-value pairs
```