

Object Literal

JavaScript Object Literal is a data type used to define objects in JavaScript. It is a syntax for creating an object in JavaScript that is composed of key-value pairs. It is a lightweight and efficient way to create and store data. It is a great way to store related data in an organized manner.

- Object literals are easy to read and understand.
- Object literals are more efficient than other data types.
- Object literals are versatile and can store any type of data.

Object literals are also used to store information about a particular instance of an object, such as its state or behavior.

Object literals are written in the form of key-value pairs, where each key is a string and each value can be any valid JavaScript data type. For example, the following object literal stores information about a person:

```
const person = {  
  name: 'John Doe',  
  age: 30,  
  address: '123 Main Street'  
};
```

Object literals can also contain other object literals, as well as functions. For example, the following object literal stores information about a person, and also contains a function that prints out a greeting message:

```
const person = {  
  name: 'John Doe',  
  age: 30,  
  address: '123 Main Street',  
  greet: function () {  
    console.log('Hello, my name is ' + this.name);  
  }  
};
```

Once an object has been created, you can access its properties and methods using the dot notation. For example, to access the name property of the person object, you would use the following code:

```
console.log(person.name);
```

To call the greet method of the person object, you would use the following code:

```
person.greet();
```