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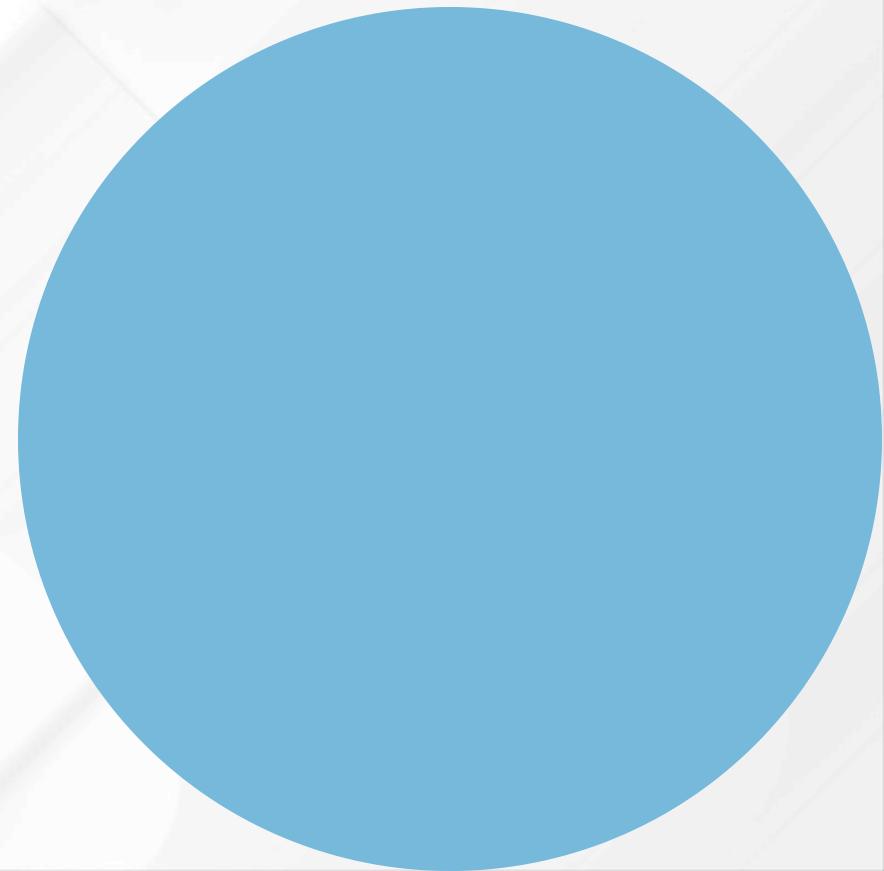
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Objects in Js

By Satyawan Panchal



Outline

01 Objects

02 Ways to create

03 Object Operations

04 Iteration

Along with examples

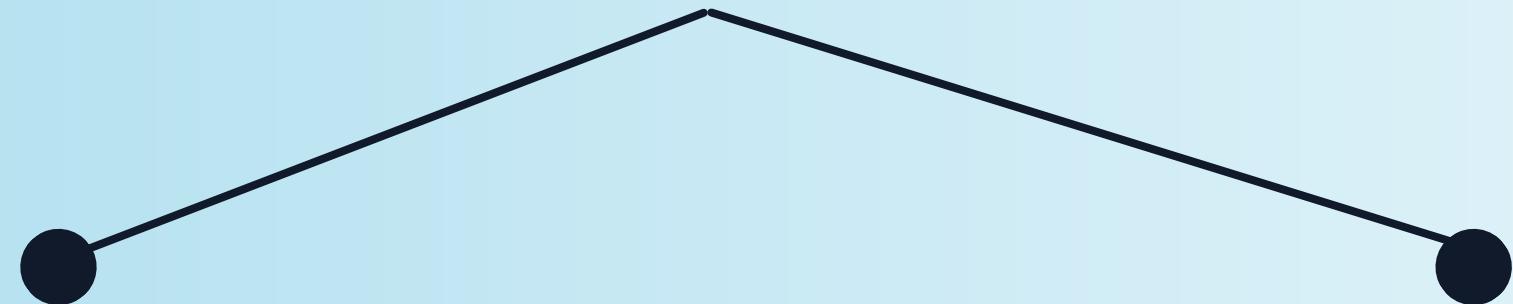
Objects

An object is a collection of key–value pairs.

Example:

```
const person = {  
  name: "Rinku",  
  age: 22,  
  greet: function() {  
    return `Hi, I am rinku`;  
  }  
};
```

WAYS TO CREATE OBJECTS



Object literal

```
const obj = { key: "value" };
```

`new Object()`

```
const obj = new Object();
obj.key = "value";
```

Add Elements to Object

For single properties

Dot Notation

```
person.city = "Delhi";
```

Bracket Notation

```
person["hobby"] = "Coding";
```

Add/Updating Elements to Object

For multiple updates

Spread Operator

```
let newObj = { ...obj, country: "India" };
```

Update Elements to Object

Same syntax as adding, just overwrite existing values.

For single properties

Dot Notation

```
person.city = "Mumbai";
```

Bracket Notation

```
person["hobby"] = "Reading";
```

Delete Elements from an Object

Using `delete` keyword

```
delete person.city;
```

How to Iterate through an Object.

1. Using for-in loop

```
const user = { name: "Varsha", age: 22, city: "Delhi" };
```

```
for (let key in user) {
  console.log(key, ":", user[key]);
}
// name : Varsha
// age : 22
// city : Delhi
```

How to Iterate through an Object.

2. **Object.keys() with forEach**

```
Object.keys(user).forEach(key => {  
  console.log(key, ":", user[key]);  
});
```

How to Iterate through an Object.

3. **Object.entries() with forEach**

```
Object.entries(user).forEach(([key, value]) => {  
  console.log(key, ":", value);  
});
```

Spread Operator

Spread (...) makes copies, adds, or updates without changing the original object.

1. Clone Object

```
let copy = { ...person };
```

2. Add New Properties

```
let newObj = { ...person, city: "Delhi" };
```

3. Update Existing Properties

```
let updatedObj = { ...person, age: 25 };
```

4. Merge Multiple Objects

```
let merged = { ...obj1, ...obj2 };
```

IMPORTANT QUESTIONS

01 How we can access keys of all the props of an object?

Object.keys()

02 How we can access values of all the props in object ?

Object.values()

03 How do I know whether object have certain prop or not ?

hasOwnProperty()

04 How to get keys and values individually - keys and values?

using Object.entries()



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