# Map Vs Objects in



# Quick Intro To Map and Object

JavaScript map and object is both data structures with similar concepts then why two?? As expected there are subtle differences between them

In JavaScript, objects are handy. They allow us to easily group multiple pieces of data together. **After ES6**, we got a new addition to the language - **Map** 

lets check few differences between them

# Flexibility of Key types:

- Key type of an object can be only either string or a symbol.
- Map allows keys of any type. It can be functions, objects, or primitive

#### Objects

```
let obj ={
    1:'hello'
}

obj['1'] // hello
obj[1] //hello
```

```
Map
```

```
let map = new Map([
      ['1', 'hello'],
      [1, 'Bye']
]);

map.get('1') //hello
map.get(1) //Bye
```

To conclude - remember the regular Object would convert keys to string. whereas Map keeps the type, so these two are different



### Iteration

 Objects are not directly iterable and needs Object.keys or Object.entries methods.

```
for (const [key, value] of Object.entries(obj)) {....}
Object.entries(obj).forEach(([key, value]) => {....}
```

• Map has a built-in forEach method, similar to Array.

```
map.forEach(([key, value]) => {....}
```

# Ways of creating

There are many ways to create an object.

```
    Using Object literal -> {}
    Using constructor method -> new Object()
    using Object.create method
```

· Map has only one way of creation.

```
. Using constructor method -> new Map()
```

# Getting & Setting properties

Below are ways to access objects

```
. Dot property accessor: object. property.
```

```
. Square brackets property access: object['property']
```

. Object destructuring: const { property } = object.

Below are ways to access map

- Using get and set method to access the properties and set the properties.
- You can't destructure Map directly, you will have to convert to object first.

## Check if key exists: To check if a particular

key already exists.

Using "in" operator

```
let obj = {'name' : 'mani'}
if(name in obj){// code to be executed}
```

Using inbuilt has() method

```
let map = new Map([ ['name', 'hello'] ]);
if(map.has('name')){// code to be executed}
```

# Getting size

 To find the object size we need to depend on keys or values or entries method

Object.keys(obj).length

· Map has an inbuilt size property to caluculate total items

map.size

## Support of JSON

JSON gives direct support for object but not with map.

#### \*\*\*NOTE\*\*\*

- Although we can set map[key] = 2, Never ever do this as this is treating map as a plain JavaScript object, so it ends up behaving as a regular Object.
- Map has dedicated methods like set, get etc.....Always ensure to use them.

## Did you find it helpful??

- C) Like this post!
- Share with your friends
- Save it for later



#### Follow for more!

- @startwithmani
- in @M.serisha Kothapalli