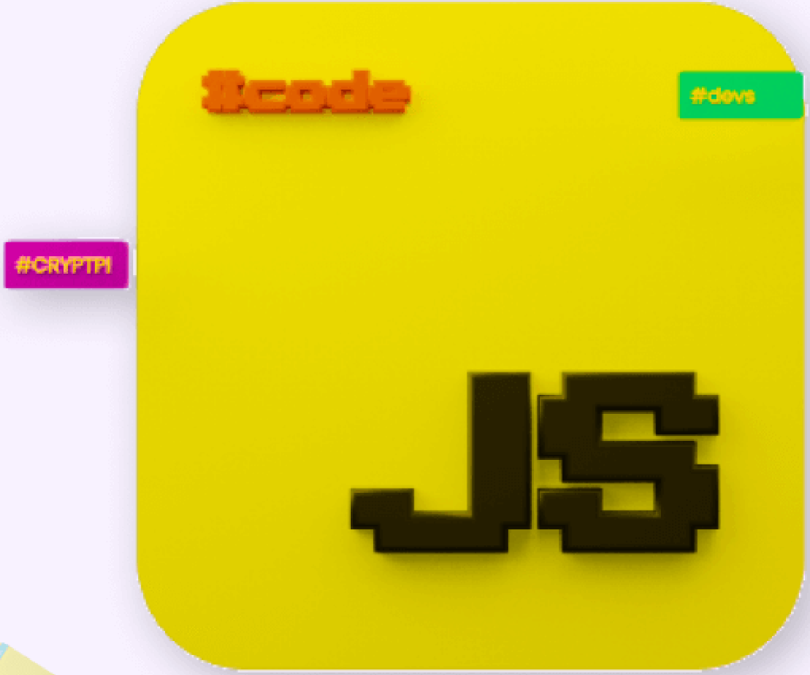
JavaScript

Sets



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Hey Everyones 👋

In this post, you will learn about JavaScript Sets with the help of examples.

The JavaScript ES6 has introduced two new data structures, i.e Set and WeakSet.

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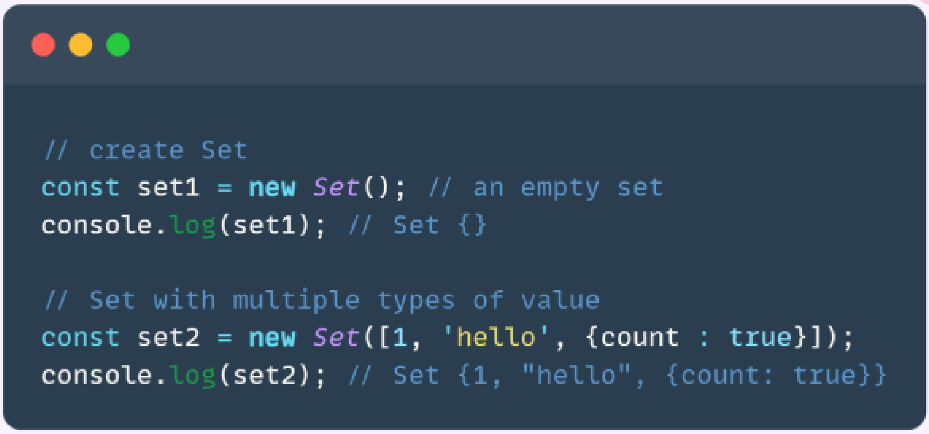
Create Set

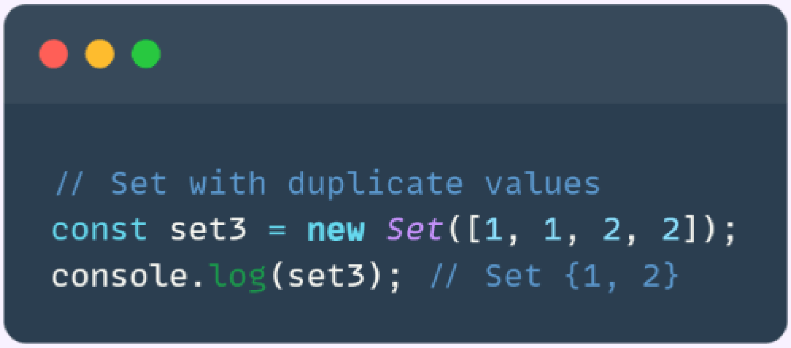
- To create a Set, you need to use new Set() constructor.



```
// create Set
const set1 = new Set(); // an empty set
console.log(set1); // Set {}

// Set with multiple types of value
const set2 = new Set([1, 'hello', {count : true}]);
console.log(set2); // Set {1, "hello", {count: true}}
```

- When duplicate values are passed to a Set object, the duplicate values are excluded.



```
// Set with duplicate values
const set3 = new Set([1, 1, 2, 2]);
console.log(set3); // Set {1, 2}
```

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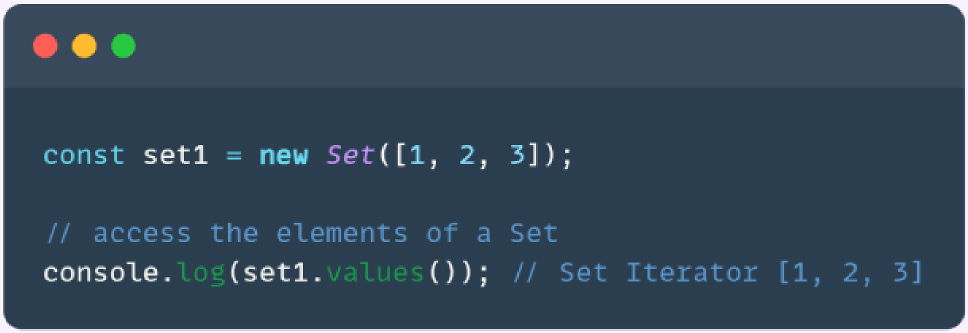
Access Elements

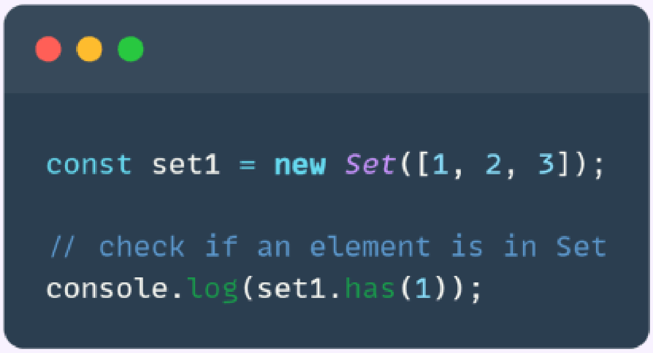
- You can access Set elements using the values() method and check if there is an element inside Set using has() method.



```
const set1 = new Set([1, 2, 3]);

// access the elements of a Set
console.log(set1.values()); // Set Iterator [1, 2, 3]
```

- You can use the has() method to check if the element is in a Set.



```
const set1 = new Set([1, 2, 3]);

// check if an element is in Set
console.log(set1.has(1));
```

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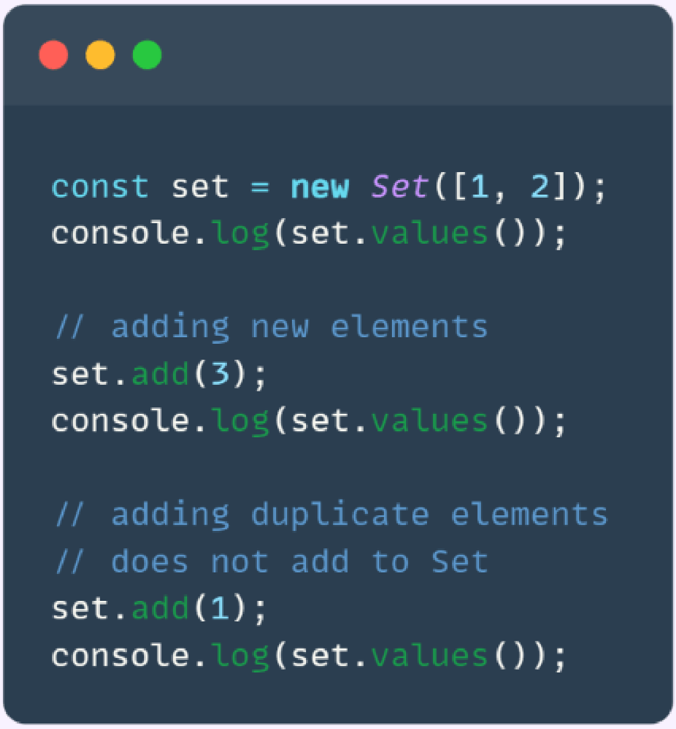
Adding New Elements

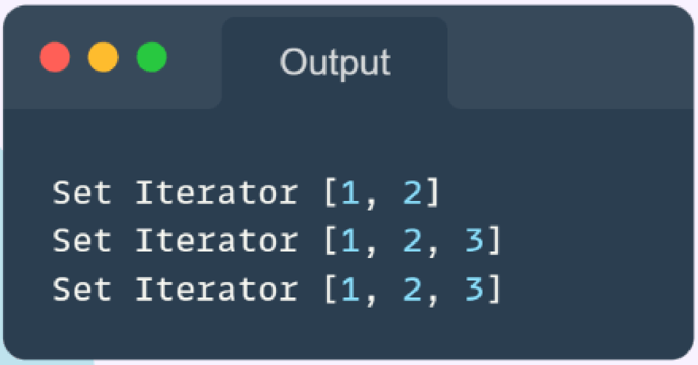
- You can add elements to a Set using the add() method.



```
const set = new Set([1, 2]);
console.log(set.values());

// adding new elements
set.add(3);
console.log(set.values());

// adding duplicate elements
// does not add to Set
set.add(1);
console.log(set.values());
```



```
Set Iterator [1, 2]
Set Iterator [1, 2, 3]
Set Iterator [1, 2, 3]
```

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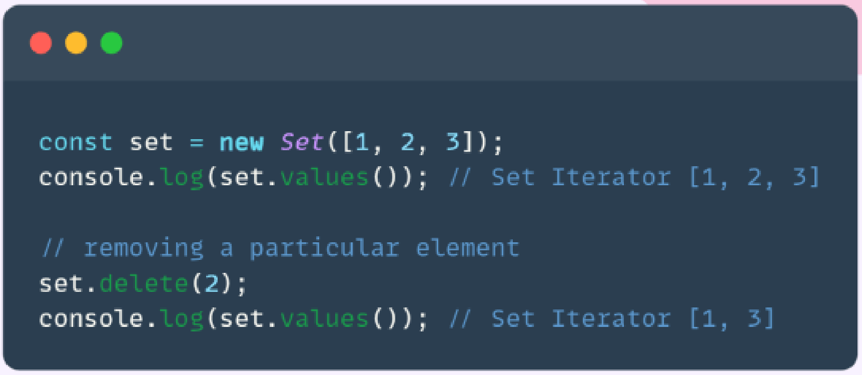
Removing Elements

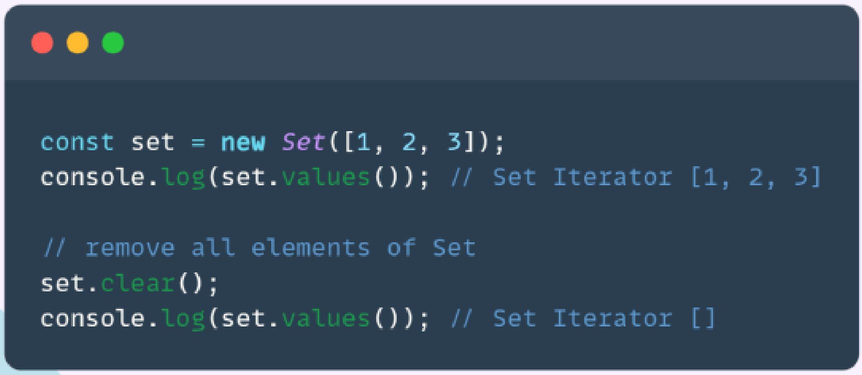
- The delete() method removes a specific element from a Set.



```
const set = new Set([1, 2, 3]);
console.log(set.values()); // Set Iterator [1, 2, 3]

// removing a particular element
set.delete(2);
console.log(set.values()); // Set Iterator [1, 3]
```

- The clear() method removes all elements from a Set.



```
const set = new Set([1, 2, 3]);
console.log(set.values()); // Set Iterator [1, 2, 3]

// remove all elements of Set
set.clear();
console.log(set.values()); // Set Iterator []
```

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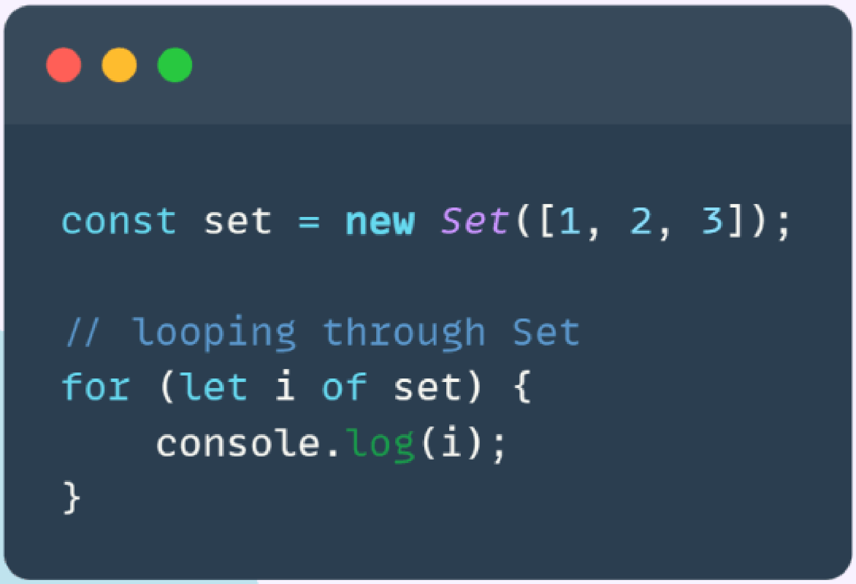
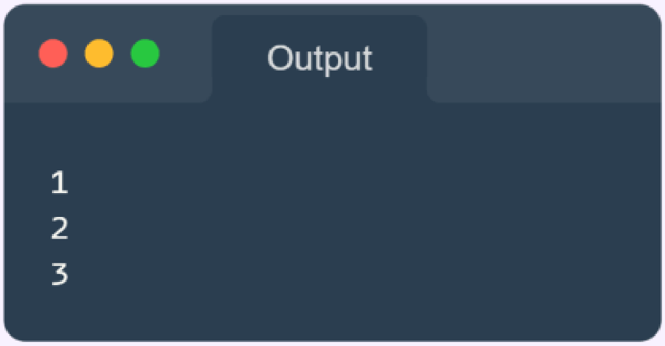
Iterate Sets

- You can iterate through the Set elements using the for...of loop or forEach() method.
- The elements are accessed in the insertion order.



```
const set = new Set([1, 2, 3]);

// looping through Set
for (let i of set) {
    console.log(i);
}
```



```
1
2
3
```

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