



map

vs

forEach

map vs forEach

Both **map** and **forEach** are array methods that are used to iterate the elements of the array.

Both methods take a callback function as an argument.



rabisiddique234



rabi-siddique

map vs forEach

The main difference between **map** and **forEach** lies in their **return values**.



rabisiddique234



rabi-siddique

map vs forEach

The **map** method returns a new array from the existing array, after applying the callback function to each element of the existing array.



rabisiddique234



rabi-siddique

map vs forEach



```
1 let nums = [1, 33, 44, 55];  
2  
3 const mapResult = nums.map((element) => {  
4   return element + 2;  
5 });  
6  
7 console.log(mapResult); // [3, 35, 46, 57]
```



rabisiddique234



rabi-siddique

map vs forEach

The **forEach** method on the other hand does not return anything. It is just used to iterate the elements of an array.



rabisiddique234



rabi-siddique

map vs forEach



```
1 let nums = [1, 33, 44, 55];  
2  
3 const forEachResult = nums.forEach((element) => {  
4   return element + 2;  
5 });  
6  
7 // prints undefined  
8 console.log(forEachResult);  
9
```



rabisiddique234



rabi-siddique

map vs forEach

The other difference between these two methods is based on **chaining**. We can chain other array methods with the **map** method as it has a return value of an array.



rabisiddique234



rabi-siddique

map vs forEach



```
1  let nums = [1, 33, 44, 55];  
2  
3  const mapResult = nums  
4    .map((element) => {  
5      return element + 2;  
6    })  
7    .filter((element) => {  
8      return element > 3;  
9    });  
10  
11 console.log(mapResult); // [35, 46, 57]
```



rabisiddique234



rabi-siddique

map vs forEach

While, this is not possible with **forEach**, as it does not return anything. Instead, chaining other array methods with **forEach** results in a **TypeError**.



rabisiddique234



rabi-siddique

map vs forEach



```
1 let nums = [1, 33, 44, 55];
2 // This snippet will give:
3 // TypeError: Cannot read property 'filter' of undefined
4 const forEachResult = nums
5   .forEach((element) => {
6     return element + 2;
7   })
8   .filter((element) => {
9     return element > 3;
10  });
11
12 console.log(forEachResult);
```



rabisiddique234



rabi-siddique

**Thanks for
Reading! :)**

let's connect !



rabisiddique234



rabi-siddique