

# JavaScript for Developers JS Callbacks Utility Functions



#### Callbacks

✓ Asynchronous programming

✓ Use callbacks as utility functions

```
✓ For loop
```

```
const arr = [1, 2, 3, 4, 5, 6];
```

```
for (let i = 0; i < arr.length; i++) {
    console.log(arr[i]);
}</pre>
```

```
for (const ai of arr) {
    console.log(ai);
}
```

```
✓ For loop
                const arr = [1, 2, 3, 4, 5, 6];
   function printNumber(n){
       console.log(n);
  arr.forEach(printNumber);
                                    arr.forEach((n) => console.log(n));
```

```
const printNumber = function(n){
    console.log(n);
```

```
const printNumber = (n) => console.log(n);
```



#### √ For loop

```
const arr = [1, 2, 3, 4, 5, 6];
```



```
arr = [2, 4, 6, 8, 10, 12];
```

```
arr.forEach((n) => {
    n = n * 2;
});
```

```
arr.forEach((n, i, a) => {
    a[i] = a[i] * 2;
});
```

```
√ filter
```

```
const arr = [1, 2, 3, 4, 5, 6];
```



oddNumbers = [1, 3, 5];

```
const oddNumbers = arr.filter((n) => n%2 != 0);
```

```
function isOddNumber(n){
    return n%2 != 0;
}
```

```
const oddNumbers = [];
for (const n of arr) {
    if(isOddNumber(n)){
        oddNumbers.push(n);
    }
}
```

```
√ map
```

```
const arr = [1, 2, 3, 4, 5, 6];
```



```
doubleArr = [2, 4, 6, 8, 10, 12];
```

```
const doubleArr = arr.map((n) => n*2);
```

```
function doubleNumber(n){
    return n*2;
}
```

```
const doubleArr = [];
for (const n of arr) {
    doubleArr.push(doubleNumber(n));
}
```



```
√ find
```

```
const firstGreaterThan3 = arr.find((n) \Rightarrow n > 3);
```

```
function isGreaterThan3(n){
    return n>3;
}
```

```
let firstGreaterThan3;
for (const n of arr) {
    if(isGreaterThan3(n)){
        firstGreaterThan3 = n;
        break;
    }
}
```





const arr = [1, 2, 3, 4, 5, 6];



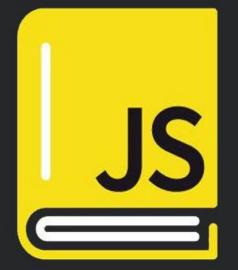
const arr = [1, 2, 3, 4, 5, 6];

 $arr.sort((a,b) \Rightarrow b-a);$ 

# Refs







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