

JavaScript Coding Examples

JavaScript Coding Examples	1
Block Scope Declare Variables	1
For of vs in iterable Items	2
JavaScript Countdown using Interval	4
JavaScript Object Literals	5
JavaScript Instance Objects	5
JavaScript Spread Operator syntax	7

Block Scope Declare Variables

Laurence Laurence Laurence

Mike Jane Mike

Mike Jane Laurence

```
var user1 = 'Laurence';
let user2 = 'Laurence';
const user3 = 'Laurence';
console.log(` ${user1} ${user2} ${user3} `);
if(true){
  user2 = 'Jane';
  var user1 = 'Mike';
  //let user2 ='Mike';
```

```
const user3 = 'Mike';
//user3 = 'Jane';
console.log(` ${user1} ${user2} ${user3} `);
}
//user2 = 'Laurence';
//user3 = 'Laurence';
console.log(` ${user1} ${user2} ${user3} `);
```

For of vs in iterable Items

Use the **“for in statement”** for object property names, and index values.

Use the **“for of statement”** for iterable items like arrays to return the values contained within the items.

```
const arr = [1,2,3,4,5];
const str = 'Laurence';
const obj = {first:'Laurence',last:'Svekis'};
```

```
for(let val in str){
  console.log(str[val]);
}
```

```
for(const letter of str){
  //console.log(letter);
}
```

```
((...arg)=>{
  for(const val of arg){
    //console.log(val);
  }
})
```

```
})(1,2,3,4);
```

```
(function(){  
  for(const val of arguments){  
    // console.log(val);  
  }  
})(1,2,3,4,5,6,7,8);
```

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

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

```
for (let val of arr){  
  val++;  
  // console.log(val);  
}
```

JavaScript Countdown using Interval

Blast Off!

Start

```
<div class="output"></div>  
<button>Start</button>
```

```
const btn = document.querySelector('button');  
const output = document.querySelector('.output');  
output.style.color = 'black';
```

```
btn.addEventListener('click',()=>{  
  let counter = 11;  
  const countdown = setInterval(()=>{  
    counter--;  
    output.innerText = counter;  
    output.style.color = 'red';  
    if(counter < 1){  
      output.style.color = 'black';  
      output.innerText = 'Blast Off!';  
      clearInterval(countdown);  
    }  
  },1000);  
})
```

JavaScript Object Literals

```
const obj1 = new Object();
obj1.first = 'Laurence';
obj1['last'] = 'Svekis';
obj1.fullName = function(){
  return `${this.first} ${this.last}`;
}

const obj2 = {
  first : 'Laurence',
  last : 'Svekis',
  fullName : function(){
    return `${this.first} ${this.last}`;
  },
  full : ()=> `${obj2.first} ${obj2.last}`
};
console.log(obj1.fullName());
console.log(obj2.fullName());
console.log(obj2.full());
```

JavaScript Instance Objects

```
const Person = function(){
  let id = Math.floor(Math.random()*1000);
  //console.log('Function Run');
  this.getId = function(){
    return id;
  }
}
```

```
this.makeId = function(){
  id = Math.floor(Math.random()*1000);
  return id;
}
this.setId = function(newId){
  id = newId;
  return id;
}
}
```

```
const peop1 = new Person();
const peop2 = new Person();
const holder = [];
for(let i = 0;i<10;i++){
  holder.push(new Person());
  console.log(holder[i].getId());
}
```

```
peop1.makeId ();
peop1.setId (55);
console.log(peop1.getId());
```

JavaScript Spread Operator syntax

▶ (9) [5, 6, 7, 1, 0, 3, 4, 8, 9]

▶ (6) [5, 6, 7, Array(4), 8, 9]

5

43

```
const arr1 = [1,2,3,4];
const arr4 = [...arr1];
arr1[1] = 0;
const arr2 = [5,6,7,...arr1,8,9];
const arr3 = [5,6,7,arr1,8,9];
arr1[2] = 0;
console.log(arr2);
console.log(arr3);
```

```
function adder(a,b,c,d){
  return a + b + c + d;
}
function adder1(){
  let total = 0;
  for(const val of arguments){
    total += val;
  }
  return total;
}
```

```
console.log(adder(...arr1));  
console.log(adder1(...arr2));
```