



Object Literal

key-value pairs...

Key-Value Pairs



Name	Sensebounce+ SUMMER.RDY Shoes
Manufacturer	Adidas
Gender	Men
Sport	Running
Weight (gram)	366

Key-Value Pairs in Code (1)



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
};
```

Key-Value Pairs in Code (2)



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
},
```

Diapit dengan { }

Key-Value Pairs in Code (3)



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
};
```

Masing-masing key-value pair
dipisahkan dengan ,

Key-Value Pairs in Code (4)



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
};
```

Key ditulis menggunakan camel
case

Key-Value Pairs in Code (5)



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
};
```

Isi dari value bebas

Array Inside Object Literal



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366,  
  colors: ['Black', 'White']  
};
```


Object Literal Inside Object Literal



```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY  
Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366,  
  colors: ['Black', 'White'],  
  warehouseStock: {  
    warehouse1: 0,  
    warehouse2: 10,  
    warehouse3: 2  
  }  
};
```

Accessing Object Literal (1)

```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
};
```

```
console.log(sensebounce.name);
```

```
console.log(sensebounce['manufacturer']);
```

```
let toAccess = 'gender';  
console.log(sensebounce[toAccess]);
```

Menggunakan .

Accessing Object Literal (2)

```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366  
};
```

```
console.log(sensebounce.name);
```

```
console.log(sensebounce['manufacturer']);
```

```
let toAccess = 'gender';  
console.log(sensebounce[toAccess]);
```

Menggunakan []

Adding New Key-Value Pairs (1)

```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366,  
  colors: ['Black', 'White'],  
  warehouseStock: {  
    warehouse1: 0,  
    warehouse2: 10,  
    warehouse3: 2  
  }  
};
```

```
sensebounce.rating = 10;
```

```
let toAdd = 'price';  
sensebounce[toAdd] = '100 USD';
```

Menggunakan .

Adding New Key-Value Pairs (2)

```
let sensebounce = {  
  name: 'Sensebounce+ SUMMER.RDY Shoes',  
  manufacturer: 'Adidas',  
  gender: 'Men',  
  sport: 'Running',  
  weightGram: 366,  
  colors: ['Black', 'White'],  
  warehouseStock: {  
    warehouse1: 0,  
    warehouse2: 10,  
    warehouse3: 2  
  }  
};
```

```
sensebounce.rating = 10;
```

```
let toAdd = 'price';  
sensebounce[toAdd] = '100 USD';
```

Menggunakan []

Iteration for Object Literal (1)

```
for (const key in sensebounce) {  
  console.log(`key: ${key}, value: ${sensebounce[key]}`);  
}
```

```
const keys = Object.keys(sensebounce);  
for (let i = 0; i < keys.length; i++) {  
  console.log(`key: ${keys[i]}, value: ${sensebounce[keys[i]]}`);  
}
```

Menggunakan for-in

Iteration for Object Literal (2)

```
for (const key in sensebounce) {  
  console.log(`key: ${key}, value: ${sensebounce[key]}`);  
}
```

```
const keys = Object.keys(sensebounce);  
for (let i = 0; i < keys.length; i++) {  
  console.log(`key: ${keys[i]}, value: ${sensebounce[keys[i]]}`);  
}
```

Memfaatkan `Object.keys()`

Deleting a Key-Value Pair (1)

```
delete sensebounce.rating;
```

```
let toDelete = 'price';  
delete sensebounce[toDelete];
```

Menggunakan .

Deleting a Key-Value Pair (2)

```
delete sensebounce.rating;
```

```
let toDelete = 'price';  
delete sensebounce[toDelete];
```

Menggunakan []

Pass by Reference

```
let a = { key1: 1, key2: 2, key3: 3 };  
let b = a;
```

```
a.key1 = 10;  
console.log(a, b);
```

Output:

```
{ key1: 10, key2: 2, key3: 3 } { key1: 10, key2: 2, key3: 3  
}
```

Copying an Object Literal

```
let a = { key1: 1, key2: 2, key3: 3 };  
let b = {};
```

```
for (const key in a) {  
  b[key] = a[key];  
}
```

```
a.key1 = 10;  
console.log(a, b);
```

Output:

```
{ key1: 10, key2: 2, key3: 3 } { key1: 1, key2: 2, key3: 3 }
```

Copying an Object Literal (not for LC)

```
let a = { key1: 1, key2: 2, key3: 3 };  
let b = {};
```

```
Object.assign(b, a);
```

```
a.key1 = 10;  
console.log(a, b);
```

Output:

```
{ key1: 10, key2: 2, key3: 3 } { key1: 1, key2: 2, key3: 3 }
```

Copying an Object Literal (not for LC)

```
let a = { key1: 1, key2: 2, key3: 3 };  
let b = { ...a };
```

```
a.key1 = 10;  
console.log(a, b);
```

Output:

```
{ key1: 10, key2: 2, key3: 3 } { key1: 1, key2: 2, key3: 3 }
```

Try This

```
let a = { key1: 1, key2: 2, key3: 3 };  
let b = [1, 2, 3];
```

```
console.log(typeof(a), typeof(b));
```

Output:

object object