



**Sundeeep Dayalan**

@sundeeep-dayalan



JavaScript - Convert

# ***Array of objects to a single object***

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***Before***

```
const data = [  
  { key: 1, name: "A", condition: true },  
  { key: 4, name: "B", condition: false },  
  { key: 7, name: "C", condition: true },  
  { key: 11, name: "D", condition: true },  
  { key: 12, name: "E", condition: false }  
]
```

***After***

```
const data = {  
  1 : { key: 1, name: "A", condition: true },  
  4 : { key: 4, name: "B", condition: false },  
  7 : { key: 7, name: "C", condition: true },  
  11 : { key: 11, name: "D", condition: true },  
  12 : { key: 12, name: "E", condition: false }  
}
```

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## *Using Reduce Function*

*In this below code snippet, we have used the reduce function which will basically traverse through the array once and then accumulate the array values into a single object and then return the result at every step.*

```
const arrayToObject1 = (arr, key) => {  
  return arr.reduce((obj, item) => {  
    obj[item[key]] = item  
    return obj  
  }, {})  
}
```

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## Using Spread Operator

*In this below code snippet, we have used the reduce function and along with that, we have used spread operator(...) which will basically spread the previous object for every iteration and add new values to it.*

```
const arrayToObject2 = (array, key) =>
  array.reduce(
    (obj, item) => ({
      ...obj, [item[key]]: item
    }), {});
```

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## *Using forEach Loop*

```
const arrayToObject5 = (arr, key) => {  
  const res = {};  
  arr.forEach(obj => {  
    res[obj[key]] = obj;  
  })  
  return res  
}
```

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## *Using Comma Operator*

```
const arrayToObject4 = (arr, key) =>  
  arr.reduce((obj, item) => ((obj[[item[key]]] = item), obj), {});
```

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End!