



Types

There are 2

Array destructuring const [a, b, c] = [1, 2, 3];

Object destructuring

const { name, age } = {name: 'Andrew', age: 21};





Nothing in your array?

When you destructure it, your assignment will have undefined

$$x = undefined$$

Cannot destructure null or undefined

When you try, you will see: "Uncaught TypeError: Cannot destructure property property > of 'undefined' or 'null'

```
let { value } = null
```



You are free to choose what you want to take on your value assignments

let
$$\{x:y\} = \{x:3,y:7\}$$

The value of x on the right side of this expression takes the value from y(7)

```
const contact = {
   surname : "Andrew",
   lastname: "Sheehan",
   age: 2 l
}
let { surname, age } = contact;
```

Taking the variables you want

Your object literals can be statically defined, pulled from a RESTful API call or even dynamically created on events



Destructuring with function return values

let line I, city, postalCode;
[line I, city, postalCode] = getAddressKeyMapping()

Destructuring data

```
const wes = {
  first: 'Wes',
  last: 'Bos',
  links: {
    social: {
     twitter: 'https://twitter.com/wesbos',
      facebook: 'https://facebook.com/wesbos.developer',
    },
    web: {
      blog: 'https://wesbos.com'
    }
  }
};
```

Use this

```
const { twitter, facebook } = wes.links.social;
console.log(twitter, facebook); // logs the 2 variables
```

Another example

```
const person = {
   first: 'Wes',
   last: 'Bos',
   country: 'Canada',
   city: 'Hamilton',
   twitter: '@wesbos'
};
const first = person.first;
const last = person.last;
```

let { first, last } = person;

```
Examples
      var a, b, rest;
     [a, b] = [10, 20];
     console.log(a); // 10
     console.log(b); // 20
    [a, b, ... rest] = [10, 20, 30, 40, 50];
                                                         Other ways to use destructuring
    console.log(a); // 10
    console.log(b); // 20
    console.log(rest); // [30, 40, 50]
   (\{a, b\} = \{a: 10, b: 20\});
   console.log(a); // 10
  console.log(b); // 20
 // Stage 3 proposal
 ({a, b, ... rest} = {a: 10, b: 20, c: 30, d: 40});
console.log(a); // 10
console.log(b); // 20
console.log(rest); //{c: 30, d: 40}
```