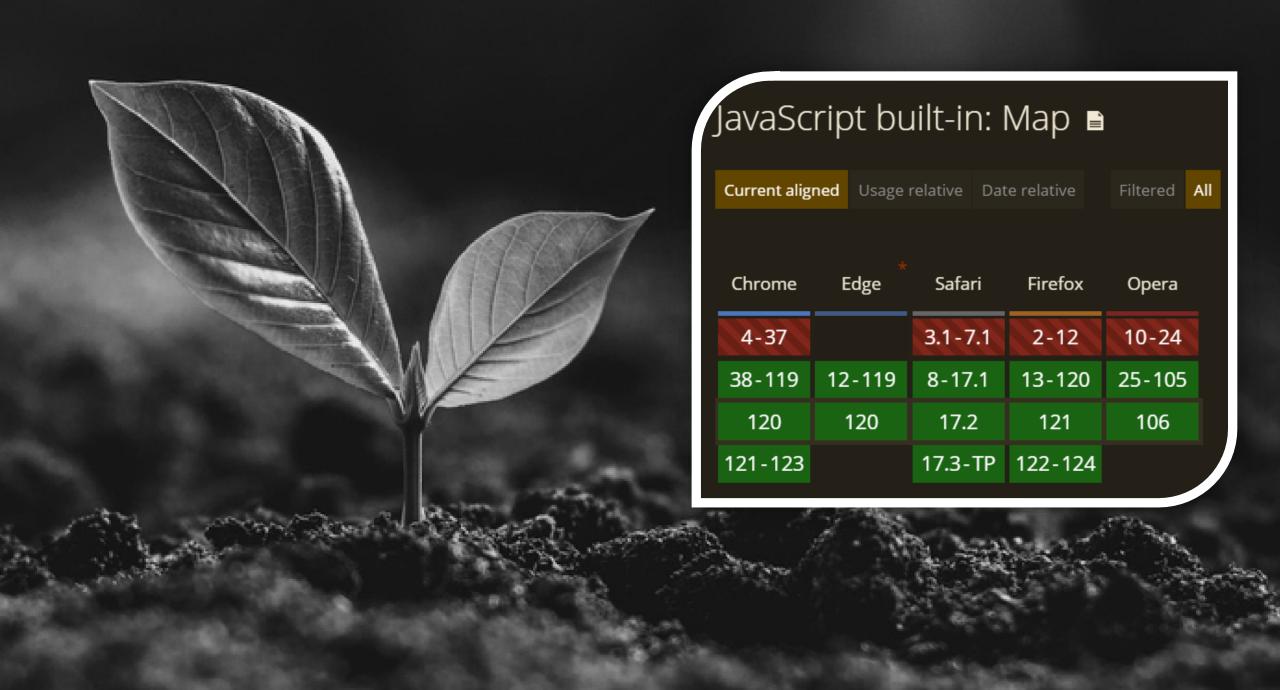
# Javascript Fundamentals: Map

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# What is a Map?

Map is a built-in ES6 data type that offers a key/value pairing.



## **Operations**

```
const avators = new Map();
avators.set("U23-23-232", "img_2332.png");
avators.set("U12-11-304", "img_250245.png");
let targetKey = "U23-23-232";
// delete
avators.delete(targetKey); // returns boolean
// find a key
avators.has(targetKey) // returns Boolean
// removes all
avators.clear() // returns undefined
// gets the number of items in the map
avators.size;
```



### **Iterate**

#### Keys will be returned in the order inserted

```
const avators = new Map();
ids.set("U23-23-232", "img_2332.png");
ids.set("U12-11-304", "img_250245.png");
avators.forEach((value, key, map) => {
  `value: ${value} key: ${key} `
});
```

## **Iterating: keys**

```
const avators = new Map();
avators.set("U23-23-232", "img_2332.png");
avators.set("U12-11-304", "imq_250245.png");
for (key of avators.keys())
  `key: ${key}
                           avators.keys().forEach(key => {
                             `key: ${key} `
```

## **Iterating: values**

```
const avators = new Map();
avators.set("U23-23-232", "img_2332.png");
avators.set("U12-11-304", "img_250245.png");
for (value of avators.values())
  `value: ${value} `
                          avators.values().forEach(value => {
                              `value: ${value}`
```

## The Weakmap

- a. Cannot iterate over the keys or values (or key-values) of a WeakMap
- b. Cannot clear all items from a WeakMap
- c. Cannot check the size



# Should you use?

https://stackoverflow.com/questions/ 29413222/what-are-the-actual-usesof-es6-weakmap