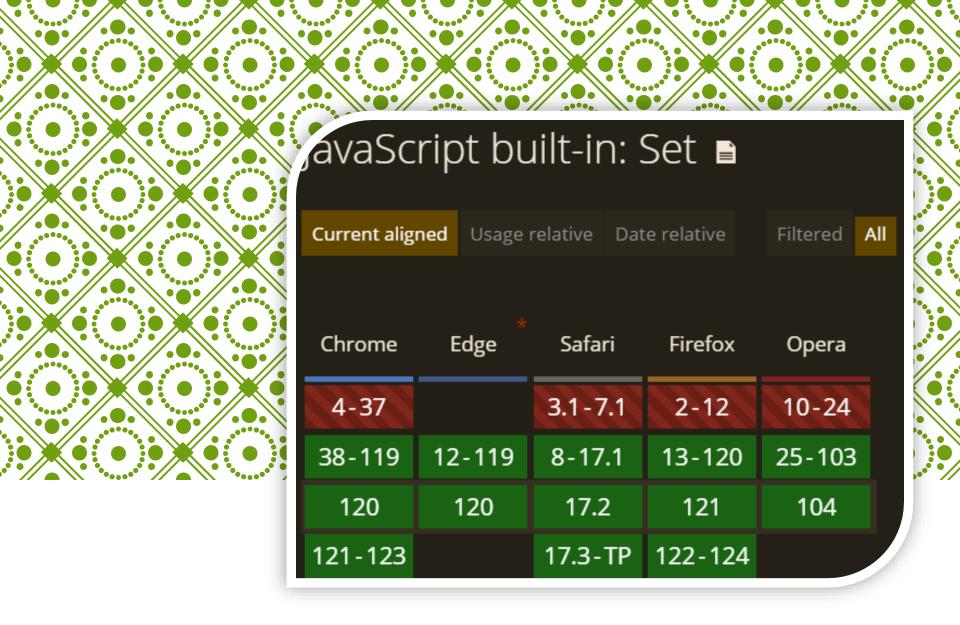


The Set object lets you store unique values, whether primitive values or objects.

NAN AND
UNDEFINED
ALSO CAN
PLACED INTO A
SET



CANIUSE.COM

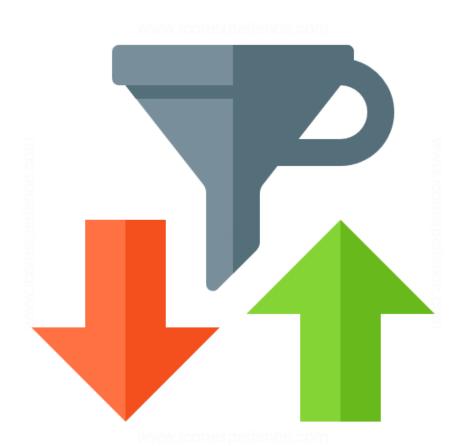
(AS OF JAN/2024)

DUPLICATES? NOT ALLOWED

Only unique values are allowed



INSERTIONS WILL MAINTAIN IN THE ORDER YOU STARTED WITH

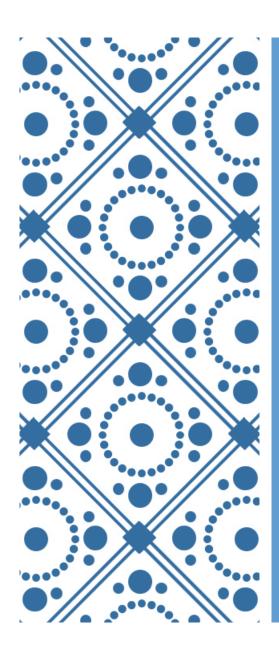


CREATING INSTANCES

const ages = new Set();



EXAMPLE DUP'S REMOVED AUTOMATICALLY



Using a string? All duplicate characters will be removed

```
const state = "Massachusetts";
const uniqueChars = new Set(state);
// Maschuet
```

```
const vals = new Set();
// one expression
vals.add(5);
// chained expressions
vals.add(7).add(5).add(5);
```

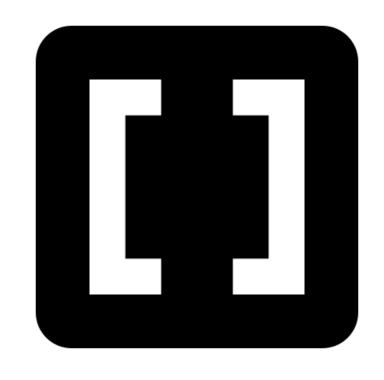
ARRAYS

```
const salts =
['38x', '2x1x0'];

let saltSet = new
Set(salts);

saltSet.has('2x0x')
```

// false



```
// true: deleted;
// false - did not
let names = ['joe', 'Dan'];
let nameSet = new Set(names);

let result =
names.delete('joe');
```

Clear

```
// All key/values are deleted
values.clear();
```

if (values.size > 0)

```
const set1 = new Set();
const object1 = {};

set1.add(42);
set1.add('forty two');
set1.add('forty two');
set1.add(object1);

console.log(set1.size);
// Expected output: 3
```

```
ids.values().forEach(id => {
    // logic goes here.
});
```

```
let mySet = new Set()
1
    mySet.add(1) // Set [ 1 ]
3
    mySet.add(5) // Set [ 1, 5 ]
4
    mySet.add(5) // Set [ 1, 5 ]
5
    mySet.add('some text') // Set [ 1, 5, 'some text' ]
6
    let o = {a: 1, b: 2}
7
    mySet.add(o)
8
9
    mySet.add({a: 1, b: 2}) // o is referencing a different object, so this is okay
10
11
    mySet.has(1)
                          // true
12
    mySet.has(3) // false, since 3 has not been added to the set
13
    mySet.has(5); // true
14
    mySet.has(Math.sqrt(25)) // true
15
    mySet.has('Some Text'.toLowerCase()) // true
16
    mySet.has(o) // true
17
18
    mySet.size // 5
19
20
    mySet.delete(5) // removes 5 from the set
21
    mySet.has(5) // false, 5 has been removed
22
```

WEAKSET VARIANT OF SET

- Only objects.
- Cannot iterate over it
- .size cannot use



WeakSet is rarely used in practice.

In fact, you only use a WeakSet to check if a specified value is

in the set.