ES6 Sets

set functions and their usage

A Set data structure in ES6 is an *ordered* list of unique elements. Here are some set functions and their usage:

Keyword	Туре	Usage
Set	constructor	creates a set
add	method	adds elements to the set
size	property	check size of the set
has	method	check if an element is a member of the set
delete	method	remove a value from a set

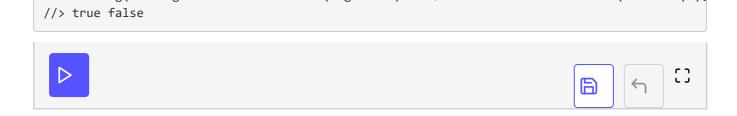
Consider the following code:

```
let colors = new Set();

colors.add( 'red' );
colors.add( 'green' );
colors.add( 'red' );  // duplicate elements are added only once
console.log( colors );
//> Set {"red", "green"}

console.log( 'Size: ' + colors.size );
//> 2

console.log( 'has green: ' + colors.has( 'green' ) + '\nhas blue: ' + colors.has( 'blue' ) );
```



You can remove a value from a set by calling its delete method. The return value of the removal is a boolean, indicating whether the removed element was initially a member of the set or not.

```
console.log('Before deleting: ')
console.log(colors);
colors.delete( 'green' )
//> true
colors.delete( 'green' )
//> false

console.log('\nAfter deleting: ')
console.log(colors);
```

The Set constructor accepts an optional array argument with initial values. It eliminates all duplicates.



We will revisit the set construction when learning about iterators and generators.

Now, let's move on to set iteration.