JavaScript Map Methods

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Map Methods

Map has the following methods and properties:

Method/Property	Description
`new Map()`	Create a new Map
`set(key, value)`	Set the value for a key
`get(key)`	Get the value for a key
`delete(key)`	Remove an entry
`has(key)`	Check if a key exists
`clear()`	Remove all entries
`forEach(fn)`	Call function for each entry
`keys()`	Iterator of keys
`values()`	Iterator of values
`entries()`	Iterator of [key, value] pairs
`size`	Number of entries

Map.get() and Map.set()

`set()` adds or updates a key-value pair. `get()` retrieves the value:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Map Methods</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Map.get() and Map.set()</h4>
<p id="demo"></p>

<script>
const fruits = new Map();

// set() adds new entries
fruits.set("apple", 500);
fruits.set("banana", 300);

// set() can update an existing entry
fruits.set("apple", 600);

document.getElementById("demo").innerHTML =
  "get('apple'): " + fruits.get("apple") + "<br>" +
  "get('banana'): " + fruits.get("banana") + "<br><br>" +
  "set() both adds AND updates entries";
</script>

</body>
</html>
```

Example 1

Result View Example

Map.delete() and Map.clear()

`delete()` removes one entry. `clear()` removes all entries:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Map Methods</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Map.delete() and Map.clear()</h4>
<p id="demo"></p>

<script>
const fruits = new Map([
  ["apple", 500],
  ["banana", 300],
  ["orange", 200]
]);

// delete() removes one entry
fruits.delete("banana");

let text = "After delete('banana'): " + [...fruits] + "<br><br>";

// clear() removes all entries
fruits.clear();
text += "After clear(): size = " + fruits.size + " (empty)";

document.getElementById("demo").innerHTML = text;
</script>

</body>
</html>
```

Example 2

Result View Example

Map.has() and Map.size

`has()` returns true if a key exists. `size` returns the number of entries:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Map Methods</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Map.has() and Map.size</h4>
<p id="demo"></p>

<script>
const fruits = new Map([
  ["apple", 500],
  ["banana", 300]
]);

document.getElementById("demo").innerHTML =
  "Map: " + [...fruits] + "<br>" +
  "size: " + fruits.size + "<br><br>" +
  "has('apple'): " + fruits.has("apple") + "<br>" +
  "has('orange'): " + fruits.has("orange") + "<br><br>" +
  "has() checks if a key exists in the Map";
</script>

</body>
</html>
```

Example 3

Result View Example

Map.forEach() and Map.entries()

`forEach()` calls a function for each entry. `entries()` returns an iterator of [key, value] pairs:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Map Methods</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Map.forEach() and Map.entries()</h4>
<p id="demo"></p>

<script>
const fruits = new Map([
  ["apple", 500],
  ["banana", 300]
]);

let text = "forEach():<br>";
fruits.forEach(function(value, key) {
  text += key + " = " + value + "<br>";
});

text += "<br>entries():<br>";
for (let entry of fruits.entries()) {
  text += "[" + entry[0] + ", " + entry[1] + "]<br>";
}

document.getElementById("demo").innerHTML = text;
</script>

</body>
</html>
```

Example 4

Result View Example

Map.keys() and Map.values()

`keys()` returns an iterator of all keys. `values()` returns an iterator of all values:

```
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript Map Methods</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Map.keys() and Map.values()</h4>
<p id="demo"></p>

<script>
const fruits = new Map([
  ["apple", 500],
  ["banana", 300],
  ["orange", 200]
]);

let text = "keys(): ";
for (let key of fruits.keys()) {
  text += key + " ";
}
text += "<br><br>";

text += "values(): ";
for (let value of fruits.values()) {
  text += value + " ";
}

document.getElementById("demo").innerHTML = text;
</script>

</body>
</html>
```

Example 5

Result View Example

Document

Document in project

You can Download PDF file.

Reference

- W3Schools JavaScript Map Methods