

JavaScript getElementsByClassName() Method

Summary: in this tutorial, you will learn how to use the JavaScript getElementsByClassName() method to select elements by class name.

Introduction to the getElementsByClassName() method

The getElementsByClassName() method returns an HTMLCollection of elements whose class names match one or more specified class names.

Here's the syntax of the getElementsByClassName() method:

```
getElementsByClassName(names)
```

In this syntax:

• names represents one or more class names to match. If you use multiple class names, you need to separate them by a space.

The getElementsByClassName() method returns a live HTMLCollection of the matched elements.
This means that it will automatically update when the document changes.

If no element in the document matches the class names, the getElementsByClassName() method returns an empty HTMLCollection [] .

The getElementsByClassName() method is available on both the document element and any other
DOM elements.

When you call the getElementsByClassName() method on the document element, it will search the entire document and return the matched elements:

```
let elements = document.getElementsByClassName(names);
```

However, when you call the getElementsByClassName() method on a specific element, it will return
the descendants of that particular element with the given class name:

```
let elements = element.getElementsByClassName(names);
```

JavaScript getElementsByClassName() method examples

Let's take some examples of using the getElementsByClassName() method.

Suppose you have the following HTML document:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>JavaScript getElementsByClassName</title>
</head>
<body>
   <header>
      <nav>
          class="item">HTML
             class="item">CSS
             JavaScript
             TypeScript
          </nav>
      <h1>getElementsByClassName Demo</h1>
   </header>
   <section>
      <article>
          <h2 class="secondary">Example 1</h2>
      </article>
      <article>
          <h2 class="secondary">Example 2</h2>
      </article>
   </section>
```

```
</body>
</html>
```

1) Calling JavaScript getElementsByClassName() on an element example

The following example illustrates how to use the getElementsByClassName() method to select the items which are the descendants of the element:

```
let menu = document.getElementById('menu');
let items = menu.getElementsByClassName('item');
console.log(items);

let data = [].map.call(items, (item) => item.textContent);
console.log(data);
```

Output:

```
HTMLCollection(4) [li.item, li.item, li.item.highlight, li.item]
['HTML', 'CSS', 'JavaScript', 'TypeScript']
```

How it works:

First, select the
 element with the class name menu using the getElementById() method:

```
let menu = document.getElementById('menu');
```

Next, select descendant elements of the ul element with the class name item using the getElementsByClassName() method:

```
let items = menu.getElementsByClassName('item');
```

Then, display the items in the console, which is an HTMLCollection that has four items:

```
console.log(items);
```

Output:

```
HTMLCollection(4) [li.item, li.item, li.item.highlight, li.item]
```

After that, create an array of items of the HTMLCollection using Array.of() method and returns an array of textContent of the items using the the map() method:

```
const data = Array.of(...items).map((item) => item.textContent);
```

Finally, display the data to the console:

```
console.log(data);
```

Output:

```
['HTML', 'CSS', 'JavaScript', 'TypeScript']
```

2) Calling JavaScript getElementsByClassName() on the document example

To select elements with the class heading-secondary, you use the following code:

```
const items = document.getElementsByClassName('secondary');
const data = Array.of(...items).map((item) => item.textContent);
console.log(data);
```

Output:

```
['Example 1', 'Example 2']
```

How it works.

First, select elements with the class secondary in the entire document:

```
const items = document.getElementsByClassName('secondary');
```

Second, create an array of textContent from the items in the HTMLCollection:

```
const data = Array.of(...items).map((item) => item.textContent);
```

Finally, display the data to the console:

```
console.log(data);
```

Summary

• Use the JavaScript getElementsByClassName() method to select the elements with one or more class names.

Quiz