JavaScript HTML DOM Elements

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Finding HTML Element by Id

The easiest way to find an HTML element in the DOM is by using the element id.

The `document.getElementById(id)` method is one of the most common methods in the HTML DOM:

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

<h2>JavaScript HTML DOM Elements</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Find Element by Id</h4>
<p id="intro">Hello World!</p>
<p id="demo"></p>

<script>
const element = document.getElementById("intro");
document.getElementById("demo").innerHTML =
  "Text: " + element.innerHTML;
</script>

</body>
</html>
```

Example 1

Result View Example

Finding HTML Elements by Tag Name

The `document.getElementsByTagName(name)` method returns all elements with a specified tag name as an HTMLCollection:

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

<h2>JavaScript HTML DOM Elements</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Find Elements by Tag Name</h4>
<p>First paragraph</p>
<p>Second paragraph</p>
<p>Third paragraph</p>
<p id="demo"></p>

<script>
const elements = document.getElementsByTagName("p");
document.getElementById("demo").innerHTML =
  "Number of <p> elements: " + elements.length;
</script>

</body>
</html>
```

Example 2

Result View Example

Finding HTML Elements by Class Name

The `document.getElementsByClassName(name)` method returns all elements with a specified class name as an HTMLCollection:

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

<h2>JavaScript HTML DOM Elements</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>Find Elements by Class Name</h4>
<p class="intro">First paragraph with class 'intro'</p>
<p>Second paragraph (no class)</p>
<p class="intro">Third paragraph with class 'intro'</p>
<p id="demo"></p>

<script>
const elements = document.getElementsByClassName("intro");
document.getElementById("demo").innerHTML =
  "Elements with class 'intro': " + elements.length +
  "<br>First: " + elements[0].innerHTML;
</script>

</body>
</html>
```

Example 3

Result View Example

The querySelector() Method

The `document.querySelector(selector)` method returns the **first** HTML element that matches a CSS selector:

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

<h2>JavaScript HTML DOM Elements</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>The querySelector() Method</h4>
<p class="example">First paragraph with class 'example'</p>
<p class="example">Second paragraph with class 'example'</p>
<p id="demo"></p>

<script>
const element = document.querySelector(".example");
document.getElementById("demo").innerHTML =
  "First element with class 'example': " + element.innerHTML;
</script>

</body>
</html>
```

Example 4

Result View Example

The querySelectorAll() Method

The `document.querySelectorAll(selector)` method returns **all** HTML elements that match a CSS selector as a NodeList:

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

<h2>JavaScript HTML DOM Elements</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>The querySelectorAll() Method</h4>
<p class="example">First paragraph with class 'example'</p>
<p class="example">Second paragraph with class 'example'</p>
<p id="demo"></p>

<script>
const elements = document.querySelectorAll(".example");
document.getElementById("demo").innerHTML =
  "Number of elements: " + elements.length +
  "<br>First: " + elements[0].innerHTML +
  "<br>Second: " + elements[1].innerHTML;
</script>

</body>
</html>
```

Example 5

Result View Example

Finding HTML Elements by HTML Object Collections

HTML object collections are built-in collections like `document.forms`, `document.images`, `document.links`, etc:

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

<h2>JavaScript HTML DOM Elements</h2>
<p>From w3schools.com, Experiment by Teeratus_R</p>

<h4>HTML Object Collections</h4>
<form id="frm1">
  First name: <input type="text" name="fname" value="John"><br>
  Last name: <input type="text" name="lname" value="Doe">
</form>
<p id="demo"></p>

<script>
const forms = document.forms;
const form = forms[0];
let text = "";
for (let i = 0; i < form.length; i++) {
  text += form.elements[i].name + ": " + form.elements[i].value + "<br>";
}
document.getElementById("demo").innerHTML = "Form fields:<br>" + text;
</script>

</body>
</html>
```

Example 6

Result View Example

Document

Document in project

You can Download PDF file.

Reference

- W3Schools JavaScript HTML DOM Elements