Accessing Element Content

In this lesson, we'll learn three simple ways to access node content. Let's begin!

WE'LL COVER THE FOLLOWING

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- Three simple ways to access node content
 - Method 1
 - Method 2
 - Method 3
- Listing 6-5: Using the textContent and innerHTML properties.

To implement useful functionality, it is not enough to navigate to a document tree node. You often need to query the content of a specific node, or a set of nodes.

Three simple ways to access node content

The DOM provides three simple ways to access node content.

Method 1

The first and most obvious way is to use the HTML element and attribute navigation methods to access child elements and attributes. Sooner or later you reach a node that does not have any child.

Method 2

The second way is to use the **textContent** property of the node you have grasped. It retrieves the concatenated text within the element, excluding all other nodes.

Method 3

The third and most frequently used way is to obtain the value of the

innerHTML property, which retrieves the textual representation of the HTML

markup embedded within the element.

Listing 6-5 demonstrates using the textContent and innerHTML properties.

Listing 6-5: Using the **textContent** and **innerHTML** properties.

```
<!DOCTYPE html>
<html>
<head>
 <title>DOM Tree</title>
 <script>
   function logContent() {
     console.log('paragraph content:');
     var para = document
      .getElementById('para');
     console.log('text:' +
      '"' + para.textContent + '"');
     console.log('HTML:' + para.innerHTML);
     console.log('ol content:');
     var ol = document
       .getElementsByTagName('ol')[0];
     console.log('text:' +
      '"' + ol.textContent + '"');
     console.log('HTML:' + ol.innerHTML);
 </script>
<body onload="logContent()">
 This is an
   <strong>ordered</strong> list
 id="item1">Item #1
   Item #2
   Item #3
 </body>
</html>
```

This script's code queries the text and HTML content of the tag and the
tag, and produces this console output:

```
paragraph content:
text:"
This is an
```

This output clearly shows that the <code>innerHTML</code> property retrieves the full HTML markup of the elements while <code>textContent</code> omits all HTML elements and their attributes. The output highlights the HTML tags. If you omit them, you get exactly the output produced by <code>textContent</code>.

You can observe another important thing. The element has a child element, :

```
  This is an
  <strong>ordered</strong> list
```

The value of textContent recursively obtains text nodes within all child nodes, and this is why the output includes "ordered" which is not a child node of , but the child of (so, actually the "grandchild" node of).

In the *next lesson*, we will get a brief reference on navigation.