

XML DOM

[< Previous](#)[Next >](#)

What is the DOM?

The Document Object Model (DOM) defines a standard for accessing and manipulating documents:

"The W3C Document Object Model (DOM) is a platform and language-neutral interface that allows programs and scripts to dynamically access and update the content, structure, and style of a document."

The **HTML DOM** defines a standard way for accessing and manipulating HTML documents. It presents an HTML document as a tree-structure.

The **XML DOM** defines a standard way for accessing and manipulating XML documents. It presents an XML document as a tree-structure.

Understanding the DOM is a must for anyone working with HTML or XML.

The HTML DOM

All HTML elements can be accessed through the HTML DOM.

This example changes the value of an HTML element with id="demo":

```
<h1 id= "demo" >THIS IS a heading</h1>
```

```
<button type="button"
onclick="document.getElementById('demo').innerHTML = 'Hello World!'">Click
Me!
</button>
```

Try it Yourself »

You can learn a lot more about the HTML DOM in our [JavaScript tutorial](#).

ADVERTISEMENT



The XML DOM

All XML elements can be accessed through the XML DOM.

Books.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<bookstore>
```

```
<price>30.00</price>
</book>

<book category="children">
  <title lang="en">Harry Potter</title>
  <author>J K. Rowling</author>
  <year>2005</year>
  <price>29.99</price>
</book>

</bookstore>
```

This code retrieves the text value of the first <title> element in an XML document:

Example

```
txt = xmlDoc.getElementsByTagName("title")[0].childNodes[0].nodeValue;
```

The XML DOM is a standard for how to get, change, add, and delete XML elements.

This example loads a text string into an XML DOM object, and extracts the info from it with JavaScript:

Example

```
<html>
<body>

<p id="demo"></p>

<script>
var text, parser, xmlDoc;
```

```
"</book></bookstore>";

parser = new DOMParser();
xmlDoc = parser.parseFromString(text, "text/xml");

document.getElementById("demo").innerHTML =
xmlDoc.getElementsByTagName("title")[0].childNodes[0].nodeValue;
</script>

</body>
</html>
```

Try it Yourself »

You will learn a lot more about the XML DOM in our [XML DOM Tutorial](#).

◀ Previous

Next ▶

W3schools Pathfinder

Track your progress - it's free!

Sign Up

Log in

ADVERTISEMENT



The banner features a purple gradient background. In the top left corner, there is a white icon of a document with code symbols (</>) and the text 'XML' below it. The main text 'Level up with XML Course' is prominently displayed in the center, with 'XML' in a larger, bold, yellow font. Below this, the tagline 'Gain skills, and get certified' is written in a smaller, italicized white font. A green rounded rectangular button with the text 'Start Today!' is positioned in the lower left. The W3schools logo is located in the bottom right corner.

COLOR PICKER



Tutorials ▼

Exercises ▼

Services ▼



Sign Up

Log in

☰ . CSS JAVASCRIPT SQL PYTHON JAVA PHP HOW TO W3.CSS C



ADVERTISEMENT

ADVERTISEMENT

ADVERTISEMENT

[Tutorials ▼](#)[Exercises ▼](#)[Services ▼](#)[Sign Up](#)[Log in](#)[CSS](#) [JAVASCRIPT](#) [SQL](#) [PYTHON](#) [JAVA](#) [PHP](#) [HOW TO](#) [W3.CSS](#) [C](#)[SPACES](#)[UPGRADE](#)[AD-FREE](#)[NEWSLETTER](#)[GET CERTIFIED](#)[CONTACT US](#)

Top Tutorials

[HTML Tutorial](#)
[CSS Tutorial](#)
[JavaScript Tutorial](#)
[How To Tutorial](#)
[SQL Tutorial](#)
[Python Tutorial](#)
[W3.CSS Tutorial](#)
[Bootstrap Tutorial](#)
[PHP Tutorial](#)
[Java Tutorial](#)
[C++ Tutorial](#)
[jQuery Tutorial](#)

Top References

[HTML Reference](#)
[CSS Reference](#)
[JavaScript Reference](#)
[SQL Reference](#)
[Python Reference](#)
[W3.CSS Reference](#)
[Bootstrap Reference](#)
[PHP Reference](#)
[HTML Colors](#)
[Java Reference](#)
[Angular Reference](#)
[jQuery Reference](#)

Top Examples

Get Certified

[HTML Certificate](#)

[Tutorials ▼](#)[Exercises ▼](#)[Services ▼](#)[Sign Up](#)[Log in](#)

☰

CSS

JAVASCRIPT

SQL

PYTHON

JAVA

PHP

HOW TO

W3.CSS

C

W3.CSS Examples
Bootstrap Examples
PHP Examples
Java Examples
XML Examples
jQuery Examples

jQuery Certificate
Java Certificate
C++ Certificate
C# Certificate
XML Certificate

[FORUM](#) [ABOUT](#) [CLASSROOM](#)

W3Schools is optimized for learning and training. Examples might be simplified to improve reading and learning. Tutorials, references, and examples are constantly reviewed to avoid errors, but we cannot warrant full correctness of all content. While using W3Schools, you agree to have read and accepted our [terms of use](#), [cookie and privacy policy](#).

Copyright 1999-2024 by Refsnes Data. All Rights Reserved. W3Schools is Powered by W3.CSS.