

Common DOM Properties in JavaScript with Syntax

Below is a reference of frequently used **DOM properties** in JavaScript, organized by category, including clear usage syntax.

Content & Structure Properties

Property	Description	Example Syntax
innerHTML	Gets/sets HTML inside an element	<code>element.innerHTML = 'Hi';</code>
outerHTML	Gets/sets HTML including the element itself	<code>console.log(element.outerHTML);</code>
textContent	Gets/sets text content (all descendants)	<code>element.textContent = 'Hello';</code>
innerText	Gets/sets visible text	<code>element.innerText = 'Hi there';</code>
children	Live HTMLCollection of child elements	<code>element.children</code>
childNodes	NodeList of all child nodes	<code>console.log(element.childNodes);</code>

Attribute & Identification Properties

Property	Description	Example Syntax
id	Gets/sets the id attribute	<code>element.id = 'main'</code>
className	Gets/sets the class attribute	<code>element.className = 'active'</code>
classList	Token list of class attribute values	<code>element.classList.add('on')</code>
attributes	All attribute nodes	<code>console.log(element.attributes)</code>
tagName	Tag name of the element	<code>console.log(element.tagName)</code>
name	Gets/sets the name attribute	<code>input.name = 'username'</code>
lang	Gets/sets language code	<code>element.lang = 'en'</code>

Form & Input-Related Properties

Property	Description	Example Syntax
value	Gets/sets value for form elements	<code>input.value = 'example'</code>
checked	Checked state of checkboxes/radios	<code>checkbox.checked = true</code>
disabled	Disabled state of a control	<code>button.disabled = true</code>

Style & Layout Properties

Property	Description	Example Syntax
style	Inline CSS as CSSStyleDeclaration	<code>element.style.background = 'red'</code>
offsetWidth	Element width (with padding, border, scrollbar)	<code>console.log(element.offsetWidth)</code>
clientWidth	Width incl. padding; excl. border, scrollbar	<code>console.log(element.clientWidth)</code>
scrollWidth	Full scrollable width	<code>console.log(element.scrollWidth)</code>
scrollTop	Vertical scroll position	<code>element.scrollTop = 100</code>
tabIndex	Tab navigation order	<code>element.tabIndex = 2</code>

Navigation & Sibling Properties

Property	Description	Example Syntax
nextElementSibling	Next element sibling	<code>element.nextElementSibling</code>
previousElementSibling	Previous element sibling	<code>element.previousElementSibling</code>
parentElement	Parent element	<code>console.log(element.parentElement)</code>
parentNode	Parent node	<code>console.log(element.parentNode)</code>

Other Useful Properties

Property	Description	Example Syntax
ownerDocument	The document to which node belongs	<code>element.ownerDocument</code>
namespaceURI	Namespace URI of node	<code>console.log(element.namespaceURI)</code>
contentEditable	Is element content editable	<code>element.contentEditable = 'true'</code>
dir	Text direction	<code>element.dir = 'rtl'</code>
dataset	Access custom data attributes	<code>element.dataset.key = 'value'</code>
nodeName	Name of the node	<code>console.log(element.nodeName)</code>
nodeType	Integer representing node type	<code>console.log(element.nodeType)</code>
nodeValue	Value of the node	<code>console.log(element.nodeValue)</code>
title	Gets/sets title attribute	<code>element.title = 'Tooltip'</code>
src	Source URL for e.g. , <iframe>	<code>img.src = 'cat.jpg'</code>
href	Hyperlink reference for <a> elements	<code>a.href = 'https://example.com'</code>
accessKey	Keyboard shortcut to activate an element	<code>element.accessKey = 'k'</code>

Document-Specific Properties

Property	Description	Example Syntax
documentElement	The root element (<html>)	document.documentElement
forms	Collection of all forms	document.forms
images	All elements	document.images
links	All <a>/<area> with href	document.links
body	The <body> element	document.body
head	The <head> element	document.head
URL	The full URL of the document	document.URL
title	The document title	document.title = 'New Title'
lastModified	Last modified date/time	console.log(document.lastModified)

Example Usage

```
<p id="demo"></p>
<script>
  const para = document.getElementById('demo');
  para.innerHTML = 'Hello, World!';    // sets content using innerHTML
  para.className = 'greeting';        // sets the class attribute
  para.style.color = 'blue';          // sets inline style
  console.log(para.id);                // gets the id attribute
  console.log(para.parentElement);    // gets the parent element
</script>
```

Note:

- Use dot notation to access/set these properties.
- Some properties are specific to certain element types (e.g., `src` for ``, `value` for `<input>`)
[\[1\]](#) [\[2\]](#).
- For more comprehensive examples or lists, see W3Schools or MDN Web Docs [\[3\]](#) [\[1\]](#) [\[4\]](#).

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1. https://www.w3schools.com/jsref/dom_obj_all.asp
2. <https://javascript.plainenglish.io/chapter-77-mastering-dom-node-properties-a-beginners-guide-51365ee6a65d?gi=5a28f4ff19d0>
3. https://www.w3schools.com/js/js_html_dom_methods.asp
4. https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Introduction