**[MS-DOM1]:**

**Internet Explorer Document Object Model (DOM) Level 1 Standards Support Document**

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**Revision Summary**

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| 3/26/2010 | 1.0 | None | Introduced no new technical or language changes. |
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# Introduction

This document describes the level of support provided by Microsoft web browsers for the *Document Object Model (DOM) Level 1 Specification Version 1.0* [[DOM Level 1]](https://go.microsoft.com/fwlink/?LinkId=163965), W3C Recommendation 1 October, 1998. Internet Explorer displays webpages written in HTML.

The [DOM Level 1] specification may contain guidance for authors of HTML and XML documents, browser users and user agents (browser applications). Statements found in this document apply only to normative requirements in the specification targeted to user agents, not those targeted to authors.

## Glossary

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information.

[DOM Level 1] World Wide Web Consortium, "Document Object Model (DOM) Level 1 Specification Version 1.0", W3C Recommendation 1 October 1998, [http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/](https://go.microsoft.com/fwlink/?LinkId=163965)

[HTML] World Wide Web Consortium, "HTML 4.01 Specification", W3C Recommendation 24 December 1999, [http://www.w3.org/TR/html4/](https://go.microsoft.com/fwlink/?LinkId=89880)

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, [http://www.rfc-editor.org/rfc/rfc2119.txt](https://go.microsoft.com/fwlink/?LinkId=90317)

### Informative References

None.

## Microsoft Implementations

The following Microsoft web browser versions implement some portion of the [[DOM Level 1]](https://go.microsoft.com/fwlink/?LinkId=163965) specification:

* Windows Internet Explorer 7
* Windows Internet Explorer 8
* Windows Internet Explorer 9
* Windows Internet Explorer 10
* Internet Explorer 11
* Internet Explorer 11 for Windows 10
* Microsoft Edge

Each browser version may implement multiple document rendering modes. The modes vary from one to another in support of the standard. The following table lists the document modes supported by each browser version.

| Browser Version | Document Modes Supported |
| --- | --- |
| Internet Explorer 7 | Quirks Mode  Standards Mode |
| Internet Explorer 8 | Quirks Mode  IE7 Mode  IE8 Mode |
| Internet Explorer 9 | Quirks Mode  IE7 Mode  IE8 Mode  IE9 Mode |
| Internet Explorer 10 | Quirks Mode  IE7 Mode  IE8 Mode  IE9 Mode  IE10 Mode |
| Internet Explorer 11 | Quirks Mode  IE7 Mode  IE8 Mode  IE9 Mode  IE10 Mode  IE11 Mode |
| Internet Explorer 11 for Windows 10 | Quirks Mode  IE7 Mode  IE8 Mode  IE9 Mode  IE10 Mode  IE11 Mode |
| Microsoft Edge | EdgeHTML Mode |

For each variation presented in this document there is a list of the document modes and browser versions that exhibit the behavior described by the variation. All combinations of modes and versions that are not listed conform to the specification. For example, the following list for a variation indicates that the variation exists in three document modes in all browser versions that support these modes:

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

**Note:** "Standards Mode" in Internet Explorer 7 and "IE7 Mode" in Internet Explorer 8 refer to the same document mode. "IE7 Mode" is the preferred way of referring to this document mode across all versions of the browser.

## Standards Support Requirements

To conform to [[DOM Level 1]](https://go.microsoft.com/fwlink/?LinkId=163965), a user agent must implement all required portions of the specification. Any optional portions that have been implemented must also be implemented as described by the specification. Normative language is usually used to define both required and optional portions. (For more information, see [[RFC2119]](http://go.microsoft.com/fwlink/?LinkId=90317).)

The following table lists the sections of [DOM Level 1] and whether they are considered normative or informative.

| Sections | Normative/Informative |
| --- | --- |
| 1-2 | Normative |
| Appendix A | Informative |
| Appendices B-E | Normative |

## Notation

The following notations are used in this document to differentiate between notes of clarification, variation from the specification, and extension points.

| Notation | Explanation |
| --- | --- |
| C#### | This identifies a clarification of ambiguity in the target specification. This includes imprecise statements, omitted information, discrepancies, and errata. This does not include data formatting clarifications. |
| V#### | This identifies an intended point of variability in the target specification such as the use of MAY, SHOULD, or RECOMMENDED. (See [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317).) This does not include extensibility points. |
| E#### | Because the use of extensibility points (such as optional implementation-specific data) can impair interoperability, this profile identifies such points in the target specification. |

# Standards Support Statements

This section contains all variations and clarifications for the Microsoft implementation of [[DOM Level 1]](https://go.microsoft.com/fwlink/?LinkId=163965).

* Section [2.1](#Section_6997b2f234d74131addefb0f7b70045c) describes normative variations from the MUST requirements of the specification.
* Section [2.2](#Section_c123876a96604bb7a4198f51e2837a5f) describes clarifications of the MAY and SHOULD requirements.
* Section [2.3](#Section_dc5ebea3795c40eaabfbaa0939c0edd4) considers error handling aspects of the implementation.
* Section [2.4](#Section_91cd9c98087c4087907f51884ffa76c7) considers security aspects of the implementation.

## Normative Variations

The following subsections describe normative variations from the MUST requirements of [[DOM Level 1]](https://go.microsoft.com/fwlink/?LinkId=163965).

### [DOM Level 1] Section 1.2, Fundamental Interfaces

V0001:

The specification states:

1. IDL Definition
2. exception DOMException {
3. unsigned short code;
4. };

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **DOMException** interface is not supported.

V0002:

The specification states:

1. While it is true that a Document object could fulfil this role, a Document object
2. can potentially be a heavyweight object, depending on the underlying
3. implementation. What is really needed for this is a very lightweight object.
4. DocumentFragment is such an object.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **DocumentFragment** interface is derived from the **Document** interface. The **createDocumentFragment** method returns a full **Document** object.

V0003:

The specification states:

1. IDL Definition
2. interface DocumentFragment : Node {
3. };

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **DocumentFragment** interface is derived from the **Document** interface. The **Document** interface is derived from the **Node** interface.

V0004:

The specification states:

1. Method
2. **createElement**
3. Creates an element of the type specified. Note that the instance returned
4. implements the **Element** interface, so attributes can be specified directly on the
5. returned object.
6. Parameters
7. *tagName* The name of the element type to instantiate. For XML, this is case-sensitive.
8. For HTML, the *tagName* parameter may be provided in any case, but it must be mapped
9. to the canonical uppercase form by the DOM implementation.
10. Return Value
11. A new **Element** object.
12. Exceptions
13. DOMException
14. INVALID\_CHARACTER\_ERR: Raised if the specified name contains an invalid character.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following variation apply:

* The **createElement** method is overloaded with one that takes no parameters. When no parameters are given, this method returns an element with a **tagName** of null.
* The **createElement** method accepts full element declaration strings that contain otherwise invalid characters for the **tagName** parameter. A parameter string such as "<div id='div1'>" would return a **div** element with an **id** of div1. An INVALID\_CHARACTER\_ERR exception is not raised in this case.

*Quirks Mode, IE7 Mode, IE8 Mode, and IE9 Mode (All Versions)*

* When an element that contains an XMLNS declaration (such as <html XMLNS:mns='http://www.contoso.com'>) is specified for the **tagName** parameter, the value of the **tagUrn** property for the new element is set to the specified URI.

V0005:

The specification states:

1. interface Document : Node
3. Method
4. **createCDATASection**
5. Creates a CDATASection node whose value is the specified string.
6. Parameters
7. *data*
8. The data for the CDATASection contents.
9. Return Value
10. The new **CDATASection** object.
11. Exceptions
12. DOMException NOT\_SUPPORTED\_ERR: Raised if this document is an HTML document.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **createCDATASection** method of the **Document** interface is not supported.

V0006:

The specification states:

1. interface Document : Node
3. Method
4. createProcessingInstruction
5. Creates a ProcessingInstruction node given the specified name and data strings.
6. Parameters
7. target
8. The target part of the processing instruction. data The data for the node.
9. Return Value
10. The new ProcessingInstruction object.
11. Exceptions
12. DOMException INVALID\_CHARACTER\_ERR: Raised if an invalid character is specified.
13. NOT\_SUPPORTED\_ERR: Raised if this document is an HTML document.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **createProcessingInstruction** method of the **Document** interface is not supported.

V0008:

The specification states:

1. IDL Definition
2. interface Node {
3. // NodeType
4. const unsigned short ELEMENT\_NODE = 1;
5. const unsigned short ATTRIBUTE\_NODE = 2;
6. const unsigned short TEXT\_NODE = 3;
7. const unsigned short CDATA\_SECTION\_NODE = 4;
8. const unsigned short ENTITY\_REFERENCE\_NODE = 5;
9. const unsigned short ENTITY\_NODE = 6;
10. const unsigned short PROCESSING\_INSTRUCTION\_NODE = 7;
11. const unsigned short COMMENT\_NODE = 8;
12. const unsigned short DOCUMENT\_NODE = 9;
13. const unsigned short DOCUMENT\_TYPE\_NODE = 10;
14. const unsigned short DOCUMENT\_FRAGMENT\_NODE = 11;
15. const unsigned short NOTATION\_NODE = 12;
16. readonly attribute DOMString nodeName;
17. attribute DOMString nodeValue;
18. // raises(DOMException) on setting
19. // raises(DOMException) on retrieval
20. readonly attribute unsigned short nodeType;
21. readonly attribute Node parentNode;
22. readonly attribute NodeList childNodes;
23. readonly attribute Node firstChild;
24. readonly attribute Node lastChild;
25. readonly attribute Node previousSibling;
26. readonly attribute Node nextSibling;
27. readonly attribute NamedNodeMap attributes;
28. readonly attribute Document ownerDocument;
29. Node insertBefore(in Node newChild,
30. in Node refChild)
31. raises(DOMException);
32. Node replaceChild(in Node newChild,
33. in Node oldChild)
34. raises(DOMException);
35. Node removeChild(in Node oldChild)
36. raises(DOMException);
37. Node appendChild(in Node newChild)
38. raises(DOMException);
39. boolean hasChildNodes();
40. Node cloneNode(in boolean deep);
41. };

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following constants are not accessible by name:

* ELEMENT\_NODE
* ATTRIBUTE\_NODE
* TEXT\_NODE
* CDATA\_SECTION\_NODE
* ENTITY\_REFERENCE\_NODE
* ENTITY\_NODE
* PROCESSING\_INSTRUCTION\_NODE
* COMMENT\_NODE
* DOCUMENT\_NODE
* DOCUMENT\_TYPE\_NODE
* DOCUMENT\_FRAGMENT\_NODE
* NOTATION\_NODE

V0009:

The specification states:

1. Definition group
2. NodeType
3. An integer indicating which type of node this is.
4. Defined Constants
5. ELEMENT\_NODE The node is a Element.
6. ATTRIBUTE\_NODE The node is an Attr.
7. TEXT\_NODE The node is a Text node.
8. CDATA\_SECTION\_NODE The node is a CDATASection.
9. ENTITY\_REFERENCE\_NODE The node is an EntityReference.
10. ENTITY\_NODE The node is an Entity.
11. PROCESSING\_INSTRUCTION\_NODE The node is a ProcessingInstruction.
12. COMMENT\_NODE The node is a Comment.
13. DOCUMENT\_NODE The node is a Document.
14. DOCUMENT\_TYPE\_NODE The node is a DocumentType.
15. DOCUMENT\_FRAGMENT\_NODE The node is a DocumentFragment.
16. NOTATION\_NODE The node is a Notation.
17. The values of nodeName, nodeValue, and attributes vary according to the node type
18. as follows:
19. nodeName, nodeValue, attributes
20. Element tagName, null, NamedNodeMap
21. Attr name of attribute, value of attribute, null
22. Text #text, content of the text node, null
23. CDATASection #cdata-section, content of the CDATA Section, null
24. EntityReference name of entity referenced, null, null
25. Entity entity name, null, null
26. ProcessingInstruction target, entire content excluding the target, null
27. Comment #comment, content of the comment, null
28. Document #document, null, null
29. DocumentType document type name, null, null
30. DocumentFragment #document-fragment, null, null
31. Notation notation name, null, null

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following constants are not supported:

* ELEMENT\_NODE
* ATTRIBUTE\_NODE
* TEXT\_NODE
* CDATA\_SECTION\_NODE
* ENTITY\_REFERENCE\_NODE
* ENTITY\_NODE
* PROCESSING\_INSTRUCTION\_NODE
* COMMENT\_NODE
* DOCUMENT\_NODE
* DOCUMENT\_TYPE\_NODE
* DOCUMENT\_FRAGMENT\_NODE
* NOTATION\_NODE

A document type declaration is treated as a **Comment** object instead of a **DocumentType** object

V0010:

The specification states:

1. Attribute
2. **nodeName**
3. The name of this node, depending on its type; see the table above.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **nodeName** property returns uppercase values except for elements with names that resemble namespaces (such as <test:elementName>) when a proprietary namespace has been declared. In this case, the **nodeName** property drops the element prefixes and does not return uppercase values.

V0011:

The specification states:

1. Attribute
2. **parentNode**
3. The parent of this node. All nodes, except **Document**, **DocumentFragment**, and **Attr** may
4. have a parent. However, if a node has just been created and not yet added to the
5. tree, or if it has been removed from the tree, this is null.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

When an element without a parent has child nodes, an **HTMLDocument** object is created and set as the parent of that element.

V0012:

The specification states:

1. Attribute
2. **childNodes**
3. A **NodeList** that contains all children of this node. If there are no children, this
4. is a NodeList containing no nodes. The content of the returned **NodeList** is "live"
5. in the sense that, for instance, changes to the children of the node object that it
6. was created from are immediately reflected in the nodes returned by the **NodeList**
7. accessors; it is not a static snapshot of the content of the node. This is true for
8. every NodeList, including the ones returned by the **getElementsByTagName** method.

*All Document Modes (Internet Explorer 8)*

Splitting multiple text nodes under an element using the **splitText** method can cause the **childNodes** collection update to be delayed. Other tree modifications cause the **childNodes** collection to synchronize again.

V0013:

The specification states:

1. Method
2. **insertBefore** Inserts the node *newChild* before the existing child node *refChild*. If
3. *refChild* is null, insert *newChild* at the end of the list of children. If *newChild*
4. is a **DocumentFragment** object, all of its children are inserted, in the same order,
5. before *refChild*. If the *newChild* is already in the tree, it is first removed.
6. Parameters
7. *newChild* The node to insert.
8. *refChild* The reference node, i.e., the node before which the new node must be
9. inserted.
10. Return Value
11. The node being inserted.
12. Exceptions
13. DOMException HIERARCHY\_REQUEST\_ERR: Raised if this node is of a type that does not
14. allow children of the type of the newChild node, or if the node to insert is one of
15. this node's ancestors.
16. WRONG\_DOCUMENT\_ERR: Raised if newChild was created from a different document than
17. the one that created this node.
18. NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.
19. NOT\_FOUND\_ERR: Raised if refChild is not a child of this node.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The conditions to trigger the exceptions HIERARCHY\_REQUEST\_ERR and WRONG\_DOCUMENT\_ERR both result in an HRESULT 0x80070057, which creates a JavaScript Error message "Invalid argument."

The following elements cause an exception when trying to dynamically insert or append new nodes:

* **APPLET**
* **AREA**
* **BASE**
* **BGSOUND**
* **BR**
* **COL**
* **COMMENT**
* **EMBED**
* **FRAME**
* **HR**
* **IFRAME**
* **IMG**
* **INPUT**
* **ISINDEX**
* **LINK**
* **META**
* **NEXTID**
* **NOEMBED**
* **NOFRAMES**
* **NOSCRIPT**
* **OBJECT**
* **PARAM**
* **SCRIPT**
* **STYLE**
* **WBR**

V0014:

The specification states:

1. Method
2. replaceChild Replaces the child node oldChild with newChild in the list of
3. children, and returns the oldChild node. If the newChild is already in the tree, it
4. is first removed.
5. Parameters
6. newChild The new node to put in the child list.
7. oldChild The node being replaced in the list.
8. Return Value
9. The node replaced.
10. Exceptions DOMException HIERARCHY\_REQUEST\_ERR: Raised if this node is of a type
11. that does not allow children of the type of the newChild node, or it the node to
12. put in is one of this node's ancestors.
13. WRONG\_DOCUMENT\_ERR: Raised if newChild was created from a different document than
14. the one that created this node.
15. NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.
16. NOT\_FOUND\_ERR: Raised if oldChild is not a child of this node.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The conditions to trigger HIERARCHY\_REQUEST\_ERR, WRONG\_DOCUMENT\_ERR, and NOT\_FOUND\_ERR all result in an HRESULT 0x80070057, which creates a JavaScript Error message "Invalid argument."

V0015:

The specification states:

1. Method
2. **removeChild** Removes the child node indicated by oldChild from the list of children,
3. and returns it.
4. Parameters
5. *oldChild* The node being removed.
6. Return Value
7. The node removed.
8. Exceptions
9. DOMException NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.
10. NOT\_FOUND\_ERR: Raised if oldChild is not a child of this node.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

If the child node indicated by the **oldChild** parameter is not from the list of child nodes, the **removeChild** method of the **Node** interface raises a **JSError** exception with an error message of "Invalid argument" and an HRESULT of 0x80070057.

V0016:

The specification states:

1. Method
2. **appendChild** Adds the node *newChild* to the end of the list of children of this node.
3. If the newChild is already in the tree, it is first removed.
4. Parameters
5. *newChild* The node to add. If it is a **DocumentFragment** object, the entire contents
6. of the document fragment are moved into the child list of this node
7. Return Value
8. The node added.
9. Exceptions
10. DOMException HIERARCHY\_REQUEST\_ERR: Raised if this node is of a type that does not
11. allow children of the type of the newChild node, or if the node to append is one of
12. this node's ancestors.
13. WRONG\_DOCUMENT\_ERR: Raised if newChild was created from a different document than
14. the one that created this node.
15. NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The conditions to trigger HIERARCHY\_REQUEST\_ERR and WRONG\_DOCUMENT\_ERR both result in an HRESULT 0x80070057, which creates a JavaScript Error message "Invalid argument."

The following elements cause an exception when trying to dynamically insert or append new nodes:

* **APPLET**
* **AREA**
* **BASE**
* **BGSOUND**
* **BR**
* **COL**
* **COMMENT**
* **EMBED**
* **FRAME**
* **HR**
* **IFRAME**
* **IMG**
* **INPUT**
* **ISINDEX**
* **LINK**
* **META**
* **NEXTID**
* **NOEMBED**
* **NOFRAMES**
* **NOSCRIPT**
* **OBJECT**
* **PARAM**
* **SCRIPT**
* **STYLE**
* **WBR**

V0017:

The specification states:

1. Method
2. **setNamedItem** Adds a node using its **nodeName** attribute. As the **nodeName** attribute is
3. used to derive the name which the node must be stored under, multiple nodes of
4. certain types (those that have a "special" string value) cannot be stored as the
5. names would clash. This is seen as preferable to allowing nodes to be aliased.
6. Parameters
7. *arg* A node to store in a named node map. The node will later be accessible using
8. the value of the **nodeName** attribute of the node. If a node with that name is
9. already present in the map, it is replaced by the new one.
10. Return Value
11. If the new **Node** replaces an existing node with the same name the previously
12. existing **Node** is returned, otherwise null is returned.
13. Exceptions
14. DOMException WRONG\_DOCUMENT\_ERR: Raised if arg was created from a different
15. document than the one that created the NamedNodeMap.
16. NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this NamedNodeMap is readonly.
17. INUSE\_ATTRIBUTE\_ERR: Raised if arg is an Attr that is already an attribute of
18. another Element object. The DOM user must explicitly clone Attr nodes to re-use
19. them in other elements.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following variations apply:

* The WRONG\_DOCUMENT\_ERR exception is not raised if the **arg** parameter was created from a document other than the one that created **NamedNodeMap**.
* Instead of the INUSE\_ATTRIBUTE\_ERR exception, if **arg** is an **Attr** that is already an attribute of another **Element** object, the **setNamedItem** method of the **Node** interface raises a JSError exception with an error message of "Invalid argument" and an HRESULT of 0x80070057.

V0018:

The specification states:

1. Method
2. **item** Returns the indexth item in the map. If index is greater than or equal to the
3. number of nodes in the map, this returns null.
4. Parameters
5. *index* Index into the map.
6. Return Value
7. The node at the indexth position in the **NamedNodeMap**, or null if that is not a
8. valid index.
9. This method raises no exceptions.

*Quirks Mode and IE7 Mode (All Versions)*

Instead of returning null when the **index** parameter is greater than the number of nodes in the map, the **item** method of the **Node** interface throws a JSError exception with an error message of "Invalid argument" and an HRESULT of 0x80070057.

V0019:

The specification states:

1. Method
2. substringData Extracts a range of data from the node.
3. Parameters
4. offset Start offset of substring to extract. count The number of characters to
5. extract.
6. Return Value
7. The specified substring. If the sum of offset and count exceeds the length, then
8. all characters to the end of the data are returned.
9. Exceptions
10. DOMException INDEX\_SIZE\_ERR: Raised if the specified offset is negative or greater
11. than the number of characters in data, or if the specified count is negative.
12. DOMSTRING\_SIZE\_ERR: Raised if the specified range of text does not fit into a DOMString.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following variations apply:

* No exception is raised if the offset is greater than the number of 16-bit units in the data.
* Instead of the **INDEX\_SIZE\_ERR** DOMException, if the specified offset is negative or greater than the number of characters in the data or the specified count is negative, the **substringData** method of the **Node** interface raises a JScript Error exception with an error message of "Invalid argument" and an HRESULT of 0x80070057.

V0020:

The specification states:

1. Attribute
2. **specified**
3. If this attribute was explicitly given a value in the original document, this is
4. true; otherwise, it is false. Note that the implementation is in charge of this
5. attribute, not the user. If the user changes the value of the attribute (even if it
6. ends up having the same value as the default value) then the specified flag is
7. automatically flipped to true. To re-specify the attribute as the default value
8. from the DTD, the user must delete the attribute. The implementation will then make
9. a new attribute available with specified set to false and the default value (if one
10. exists). In summary:
11. - If the attribute has an assigned value in the document then specified is true,
12. and the value is the assigned value.
13. - If the attribute has no assigned value in the document and has a default value in
14. the DTD, then specified is false, and the value is the default value in the DTD.

*Quirks Mode and IE7 Mode (All Versions)*

The value of the **specified** attribute is not automatically flipped when the associated attribute is changed.

V0022:

The specification states:

1. Attribute
2. **tagName**
3. The name of the element. For example, in: <elementExample id="demo"> ...
4. </elementExample> ,tagName has the value "elementExample". Note that this is case-
5. preserving in XML, as are all of the operations of the DOM. The HTML DOM returns
6. the tagName of an HTML element in the canonical uppercase form, regardless of the
7. case in the source HTML document.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **tagName** property returns uppercase values except for elements with names that resemble namespaces (such as <test:elementName>) when a proprietary namespace has been declared. In this case, the **tagName** property drops the element prefixes and does not return uppercase values.

V0023:

The specification states:

1. Method
2. getAttribute Retrieves an attribute value by name.
3. Parameters
4. name The name of the attribute to retrieve.
5. Return Value The Attr value as a string, or the empty string if that attribute does
6. not have a specified or default value.
7. This method raises no exceptions.

*Quirks Mode and IE7 Mode (All Versions)*

The **getAttribute** method supports a second parameter called **iFlags**. The **iFlags** parameter controls case sensitivity and object interpolation. By default, **iFlags** is set to 0, which indicates that the property search done by the **getAttribute** method is not case-sensitive and returns an interpolated value if the property is found.

V0024:

The specification states:

1. Method
2. **setAttribute** Adds a new attribute. If an attribute with that name is already
3. present in the element, its value is changed to be that of the value parameter.
4. This value is a simple string, it is not parsed as it is being set. So any markup
5. (such as syntax to be recognized as an entity reference) is treated as literal
6. text, and needs to be appropriately escaped by the implementation when it is
7. written out. In order to assign an attribute value that contains entity references,
8. the user must create an Attr node plus any Text and EntityReference nodes, build
9. the appropriate subtree, and use setAttributeNode to assign it as the value of an attribute.
10. Parameters
11. name The name of the attribute to create or alter. value Value to set in string form.
12. Exceptions DOMException INVALID\_CHARACTER\_ERR: Raised if the specified name
13. contains an invalid character.
14. NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.
15. This method returns nothing.

*Quirks Mode and IE7 Mode (All Versions)*

The following variations apply:

* The **setAttribute** method assigns attributes in a case-sensitive manner (expected case-insensitive for HTML).
* The second parameter of the **setAttribute** method accepts only strings, not objects. An optional third parameter controls case sensitivity.
* Attributes that apply a boolean initial state to the associated DOM properties (for example, **value** and **checked**) are incorrectly associated with their live property rather than their default property. For example, the **setAttribute** method ('checked', 'checked') toggles the DOM **checked** property (the live view of a check box) rather than the **defaultChecked** property (initial value).
* The HTML **style** attribute and attributes that are event handlers do not apply their conditions when used with **setAttribute**.
* The **setAttribute** method requires DOM property names to apply effects for certain attribute names, such as **className** (instead of 'class'), **htmlFor** (instead of 'for'), and **httpEquiv** (instead of 'http-equiv').

V0025:

The specification states:

1. Method
2. **removeAttribute** Removes an attribute by name. If the removed attribute has a
3. default value it is immediately replaced.
4. Parameters
5. name The name of the attribute to remove.
6. Exceptions DOMException NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.
7. This method returns nothing.

*Quirks Mode and IE7 Mode (All Versions)*

The following variations apply:

* The **removeAttribute** method supports an additional parameter called **iCaseSensitive**. The **iCaseSensitive** parameter specifies whether to use a case-sensitive search to find the attribute. Removal of event handler attributes (such as **onClick**) or the style attribute does not cause the actual event handler to be removed, or the inline style to be removed.
* Default attributes are not re-created after the attribute is removed.

*IE7 Mode, IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)*

The following variations apply:

* The **removeAttribute** method of the **Element** interface exists on **CSSStyleDeclaration** objects that are used for inline styles, runtime styles, and style rules.
* The **removeAttribute** method returns a Boolean value that indicates whether the operation has succeeded or failed. The **removeAttribute** method is also available on the following objects: **element.currentStyle**, **element.runtimeStyle**, **element.style**, and **stylesheet.style**.

V0026:

The specification states:

1. Method
2. **removeAttributeNode** Removes the specified attribute.
3. Parameters
4. oldAttr The Attr node to remove from the attribute list. If the removed Attr has a
5. default value it is immediately replaced.
6. Return Value The Attr node that was removed.
7. Exceptions DOMException NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.
8. NOT\_FOUND\_ERR: Raised if oldAttr is not an attribute of the element.

*Quirks Mode and IE7 Mode (All Versions)*

Default attributes are not re-created after an attribute is removed with the **removeAttributeNode** method. Removal of event handler attributes (such as **onclick**) or the **style** attribute does not cause the actual event handler or the inline style to be removed.

V0027:

The specification states:

1. Method
2. getElementsByTagName
3. Returns a NodeList of all descendant elements with a given tag name, in the order
4. in which they would be encountered in a preorder traversal of the Element tree.
5. Parameters
6. name The name of the tag to match on. The special value "\*" matches all tags.
7. Return Value
8. A list of matching Element nodes.
9. This method raises no exceptions.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following variations apply:

* When called on an **object** element, where the value "\*" is passed in as the value of the **name** parameter, the **getElementsByTagName** method returns an empty **NodeList**.
* When called on an **OBJECT** element, where param is passed in as the value of the **name** parameter, the **getElementsByTagName** method returns a **NodeList** that contains all the **PARAM** elements in the document.

V0028:

The specification states:

1. Method
2. **splitText**
3. Breaks this Text node into two Text nodes at the specified offset, keeping both in
4. the tree as siblings. This node then only contains all the content up to the offset
5. point. And a new Text node, which is inserted as the next sibling of this node,
6. contains all the content at and after the offset point.
7. Parameters
8. *offset* The offset at which to split, starting from 0.
9. Return Value
10. The new Text node.
11. Exceptions
12. DOMException INDEX\_SIZE\_ERR: Raised if the specified offset is negative or greater
13. than the number of characters in data.
14. NO\_MODIFICATION\_ALLOWED\_ERR: Raised if this node is readonly.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **offset** parameter is treated as though it is optional. If no offset is provided, then a default offset of 0 is used.

*All Document Modes (Internet Explorer 8)*

The **childNodes** objects are kept in a cache and are invalidated whenever there is a modification to the markup. Calling the **splitText** method of the **Text** interface does not trigger a markup modification. The **childNodes** collection does not show changes made by **splitText** until the markup is modified, for example, by changing the text of a **DIV** element anywhere on the page.

### [DOM Level 1] Section 2.5.5, Object definitions

V0030:

The specification states:

1. interface HTMLSelectElement : HTMLElement
2. Method
3. **add** Add a new element to the collection of **OPTION** elements for this **SELECT**.
4. Parameters
5. *element*  The element to add.
6. *before* The element to insert before, or NULL for the head of the list.
7. This method returns nothing.
8. This method raises no exceptions.

*Quirks Mode and IE7 Mode (All Versions)*

The **add** method of the **HTMLSelectElement** interface is not supported.

*IE8 Mode, IE9 Mode, IE10 Mode, IE11 Mode, and EdgeHTML Mode (All Versions)*

The **add** method of the **HTMLSelectElement** appends the element to the bottom of the list when the **before** parameter is null.

V0031:

The specification states:

1. IDL Definition
2. interface HTMLOptionElement : HTMLElement {
3. readonly attribute HTMLFormElement form;
4. attribute boolean defaultSelected;
5. readonly attribute DOMString text;
6. attribute long index;
7. attribute boolean disabled;
8. attribute DOMString label;
9. readonly attribute boolean selected;
10. attribute DOMString value;
11. };

*All Document Modes (All Versions)*

The **text** attribute of the **HTMLOptionElement** interface is not read-only.

V0032:

The specification states:

1. Attribute
2. **align**
3. Aligns this object (vertically or horizontally) with respect to its surrounding
4. text. See the **align** attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

When specified in HTML, the **align** attribute of the **INPUT** element is ignored and the DOM **align** attribute returns an empty string.

V0035:

The specification states:

1. IDL Definition
2. interface HTMLPreElement : HTMLElement {
3. attribute long width;
4. };

*IE7 Mode, IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)*

The **width** attribute of a **PRE** element is treated as a string.

V0038:

The specification states:

1. Attribute
2. **object**
3. Serialized applet file. See the **object** attribute definition in HTML 4.0. This
4. attribute is deprecated in HTML 4.0.

*IE7 Mode and IE8 Mode (All Versions)*

The **object** attribute of the **APPLET** element is not supported.

V0039:

The specification states:

1. interface HTMLScriptElement : HTMLElement
2. Attribute
3. **src**
4. URI designating an external script. See the **src** attribute definition in HTML 4.0.

*IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)*

When the value of the **src** attribute for the **SCRIPT** element is specified in HTML as a relative URI, the value is converted and stored as an absolute URI in the **src** attribute of the **HTMLScriptElement**.

V0042:

The specification states:

1. Attribute
2. align
3. Horizontal alignment of data within cells of this row. See the align attribute
4. definition in HTML 4.0.

*All Document Modes (All Versions)*

The char and justify values are not supported for the **align** attribute of a **TR** element.

V0043:

The specification states:

1. Attribute
2. **ch**
3. Alignment character for cells in a column. See the char attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **ch** attribute on the **TR** element is not supported. The **ch** attribute can be written to and read from the DOM, but it does not change the alignment of text within a cell.

V0044:

The specification states:

1. Attribute
2. **chOff**
3. Offset of alignment character. See the charoff attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **chOff** attribute on the **TR** element is not supported. The **ch** attribute can be written to and read from the DOM, but it does not change the offset of the alignment.

V0045:

The specification states:

1. Attribute
2. **rowSpan**
3. Number of rows spanned by cell. See the rowspan attribute definition in HTML 4.0.

*Quirks Mode and IE7 Mode (All Versions)*

If the **rowspan** attribute specified on a cell is greater than the number of rows in a table, the value of this attribute is modified to become equal to the number of rows in the table.

V0050:

The specification states:

1. Attribute
2. **scrolling**
3. Specify whether or not the frame should have scrollbars. See the
4. **scrolling** attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **scrolling** attribute is an expando attribute. If the **scrolling** attribute and value are declared in markup, the value is stored and returned by the **scrolling** attribute. If no value is specified, **scrolling** is undefined in the DOM.

V0053:

The specification states:

1. Attribute
2. **acceptCharset**
3. List of character sets supported by the server. See the accept-charset attribute
4. definition in HTML 4.0.

*All Document Modes (All Versions)*

The value of **acceptCharset** is set to unknown when no value is supplied for the **accept-charset** attribute of a **FORM** element.

V0054:

The specification states:

1. Method
2. deleteRow Delete a table row.
3. Parameters
4. index The index of the row to be deleted.
5. This method returns nothing.
6. This method raises no exceptions.

*All Document Modes (All Versions)*

The **deleteRow** method with no parameters is also supported. When calling the **deleteRow** method with no parameters, the last row of the table is deleted.

V0055:

The specification states:

1. interface HTMLFrameElement : HTMLElement
2. Attribute
3. noResize of type boolean
4. When true, forbid user from resizing frame. See the noresize attribute definition
5. in HTML 4.0.

*Quirks Mode, IE7 Mode, IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

The following clarifications apply:

* The value of the **noresize** attribute is stored as a string.
* If the **noresize** attribute is not specified in HTML, or is specified without a value, the **noResize** DOM attribute returns a value of undefined rather than a default Boolean value of false.

V0056:

The specification states:

1. Attribute
2. shape
3. The shape of the active area. The coordinates are given by coords. See the shape
4. attribute definition in HTML 4.0

*IE8 Mode, IE9 Mode, IE10 Mode, IE11 Mode, and EdgeHTML Mode (All Versions)*

shape="default" is interpreted as "rect".

## Clarifications

The following subsections describe clarifications of the MAY and SHOULD requirements of [[DOM Level 1]](https://go.microsoft.com/fwlink/?LinkId=163965).

### [DOM Level 1] Section 1.2, Fundamental Interfaces

C0001:

The specification states:

1. Method
2. **createDocumentFragment** Creates an empty **DocumentFragment** object.
3. Return Value
4. A new **DocumentFragment**.
5. This method has no parameters.
6. This method raises no exceptions.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **createDocumentFragment** method returns an object that is derived from the **document** interface.

C0002:

The specification states:

1. Method
2. **createTextNode** Creates a Text node given the specified string.
3. Parameters
4. *data*  The data for the node.
5. Return Value
6. The new **Text** object.
7. This method raises no exceptions.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **data** parameter is treated as optional. The **createTextNode** method creates a text node even when no parameter is provided.

C0003:

The specification states:

1. Method
2. **createComment** Creates a Comment node given the specified string.
3. Parameters
4. *data* The data for the node.
5. Return Value
6. The new **Comment** object.
7. This method raises no exceptions.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **data** parameter is treated as optional. The **createComment** method creates a COMMENT node even when no parameter is provided.

C0004:

The specification states:

1. Method
2. **getAttributeNode** Retrieves an Attr node by name.
3. Parameters
4. name The name of the attribute to retrieve.
5. Return Value
6. The Attr node with the specified attribute name or null if there is no such attribute.
7. This method raises no exceptions.

*Quirks Mode and IE7 Mode (All Versions)*

The **nodeValue** attribute of the object returned from the **getAttributeNode** method returns an empty string if an attribute has not been assigned a value in HTML.

*IE8 Mode (All Versions)*

The **getAttributeNode** method returns null if an attribute is specified but has not been assigned a value in HTML.

C0005:

The specification states:

1. Method
2. **normalize**
3. Puts all **Text** nodes in the full depth of the sub-tree underneath this
4. Element into a "normal" form where only markup (e.g., tags, comments, processing
5. instructions, CDATA sections, and entity references) separates **Text** nodes, i.e.,
6. there are no adjacent Text nodes. This can be used to ensure that the DOM view of a
7. document is the same as if it were saved and re-loaded, and is useful when
8. operations (such as XPointer lookups) that depend on a particular document tree
9. structure are to be used.
10. This method has no parameters.
11. This method returns nothing.
12. This method raises no exceptions.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The following clarifications apply:

* If the **normalize** method is called on an empty text node, the text node is not combined with adjacent text nodes that have content.
* If the **normalize** method is called on a text node that is empty and is the only child node of an element, the text node is not removed.

### [DOM Level 1] Section 2.4, Objects related to HTML documents

C0006:

The specification states:

1. Attribute
2. **cookie**
3. The cookies associated with this document.

*All Document Modes (All Versions)*

An item is not added to the cookie collection if the optional path=<some\_path> string sequence specifies a file name. The value of <some\_path> is limited to a subset of URLs for which the cookie is valid.

*All Document Modes (Internet Explorer 7)*

The maximum size for the value of the **cookie** attribute is defined as 4096 bytes (4 KB).

*All Document Modes (All Versions except Internet Explorer 7)*

The maximum size for the value of the **cookie** attribute is defined as 10240 bytes (10Kb).

C0007:

The specification states:

1. Method
2. getElementsByName Returns the (possibly empty) collection of elements whose name
3. value is given by elementName.
4. Parameters
5. elementName The name attribute value for an element.
6. Return Value The matching elements.
7. This method raises no exceptions.

*IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)*

A collection of elements is returned where each element **name**, **id**, or **uniquename** attribute value matches the **elementName** parameter.

*IE10 Mode, IE11 Mode, and EdgeHTML Mode (All Versions)*

Matches all elements that have a name attribute, even if a name attribute is invalid according to the [[HTML]](https://go.microsoft.com/fwlink/?LinkId=89880) spec.

### [DOM Level 1] Section 2.5.1, Property Attributes

C0008:

The specification states:

1. The return value of an attribute that has a data type that is a value list is
2. always capitalized, independent of the case of the value in the source document.

*All Document Modes (All Versions)*

Value list attribute values are converted to lowercase.

### [DOM Level 1] Section 2.5.5, Object definitions

C0009:

The specification states:

1. Attributes
2. **aLink**
3. Color of active links (after mouse-button down, but before mouse-button up). See
4. the alink attribute definition in HTML 4.0. This attribute is deprecated in HTML 4.0.

*Quirks Mode and IE7 Mode (All Versions)*

The value of the **aLink** attribute is always converted into a hexadecimal RGB value when it is stored in the DOM or retrieved using the **getAttribute** method.

C0010:

The specification states:

1. Attribute
2. background
3. URI of the background texture tile image. See the background attribute definition
4. in HTML 4.0. This attribute is deprecated in HTML 4.0.

*IE8 Mode (All Versions)*

When the value of the **background** attribute for the **BODY** element is specified in HTML as a relative URI, the value is converted and stored as an absolute URI in the **background** attribute of the **HTMLBodyElement**.

C0018:

The specification states:

1. Attribute
2. **action**
3. Server-side form handler. See the action attribute definition in HTML 4.0.

*IE8 Mode and IE9 (All Versions)*

When the value of the **action** attribute for the **FORM** element is specified in HTML as a relative URI, the value is converted and stored as an absolute URI in the **action** attribute of the **HTMLFormElement**. If not already present, a slash is appended to the end of the URI when a file name is not specified.

C0024:

The specification states:

1. Attribute
2. **index**
3. The index of this OPTION in its parent SELECT.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **index** attribute is read-only.

C0025:

The specification states:

1. Form control.
2. Note. Depending upon the environment the page is being viewed, the value property
3. may be read-only for the file upload input type. For the "password" input type, the
4. actual value returned may be masked to prevent unauthorized use. See the INPUT
5. element definition in HTML 4.0.

*All Document Modes (All Versions)*

The following clarifications apply:

* The **value** attribute cannot be set or retrieved if the **type** attribute of the **INPUT** element has a value of file.
* If an **INPUT** element has a **type** attribute with a value of password, the text field is not masked when the value for the field is retrieved from the **value** attribute of **HTMLInputElement**.

C0026:

The specification states:

1. Attribute
2. type
3. The type of button. See the type attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **type** attribute of a button cannot be set.

C0027:

The specification states:

1. Attribute
2. value
3. The current form control value. See the value attribute definition in HTML 4.0.

*Quirks Mode and IE7 Mode (All Versions)*

Text contained by a **BUTTON** element is returned by the **value** attribute of **HTMLButtonElement**. If no text is contained by the **BUTTON** element, the value of the **value** attribute for the **BUTTON** element is returned. If no value is assigned or the **value** attribute is not specified for the **BUTTON** element, the **value** attribute of **HTMLButtonElement** returns an empty string.

C0029:

The specification states:

1. Attribute
2. **href**
3. The URI of the linked resource. See the **href** attribute definition in HTML 4.0.

*IE8 Mode and IE9 (All Versions)*

When the value of the **href** attribute for the **A** element is specified in HTML as a relative URI, the value is converted and stored as an absolute URI in the **href** attribute of the **HTMLAnchorElement**. If not already present, a slash is appended to the end of the URI when a file name is not specified.

C0039:

The specification states:

1. IDL Definition
2. interface HTMLParamElement : HTMLElement {
3. attribute DOMString name;
4. attribute DOMString type;
5. attribute DOMString value;
6. attribute DOMString valueType;
7. };

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

If the **name** attribute is not provided on the **PARAM** element by the author, the element is not created in the DOM by the HTML parser.

C0040:

The specification states:

1. Attribute
2. valueType
3. Information about the meaning of the value attribute value. See the valuetype
4. attribute definition in HTML 4.0.

*Quirks Mode and IE7 Mode (All Versions)*

The default value for the **valueType** attribute is an empty string.

C0043:

The specification states:

1. Attribute
2. shape
3. The shape of the active area. The coordinates are given by coords. See the shape
4. attribute definition in HTML 4.0

*Quirks Mode and IE7 Mode (All Versions)*

Shape attribute elements are capitalized when read from the DOM. For example, HTML markup shape="circle" is read by the DOM as CIRCLE.

C0046:

The specification states:

1. Attribute
2. ch
3. Alignment character for cells in a column. See the char attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **ch** attribute is always returned as an empty string.

C0047:

The specification states:

1. Attribute
2. chOff
3. Offset of alignment character. See the charoff attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **chOff** attribute is always returned as an empty string.

C0049:

The specification states:

1. Method
2. insertRow Insert a row into this section.
3. Parameters
4. index The row number where to insert a new row.
5. Return Value
6. The newly created row.
7. This method raises no exceptions.

*All Document Modes (All Versions)*

Specifying a value of -1 for the **index** parameter causes the **insertRow** method to append a new row to the bottom of the table.

C0050:

The specification states:

1. Method
2. deleteRow Delete a row from this section.
3. Parameters
4. index The index of the row to be deleted.
5. This method returns nothing.
6. This method raises no exceptions.

*All Document Modes (All Versions)*

Specifying a value of -1 for the **index** parameter causes the **deleteRow** method to remove the last row of the table. This behavior is expected in DOM L2 but not in DOM L1.

C0052:

The specification states:

1. Attribute
2. bgColor
3. Cell background color. See the bgcolor attribute definition in HTML 4.0. This
4. attribute is deprecated in HTML 4.0.

*Quirks Mode and IE7 Mode (All Versions)*

The value of the **bgColor** attribute in a **TD** element is always converted to a hexadecimal RGB value when it is stored in the DOM. For example, setting the **bgColor** attribute of a **TD** element to blue in HTML yields a value of #0000FF for the **bgColor** attribute when retrieved using the **getAttribute** method.

*IE8 Mode, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)*

The value of the **bgColor** attribute in a **TD** element remains the same as the author's original setting in HTML. For example, setting the **bgColor** attribute of a **TD** element to blue in HTML yields a value of blue when using the **getAttribute** method to retrieve the color.

However, the value of the **bgColor** property of the **HTMLFontElement** interface is stored in the DOM as a hexadecimal RGB value (for example, setting it to blue in HTML yields #0000FF for the color when retrieved using TD.bgColor).

C0053:

The specification states:

1. Attribute
2. ch
3. Alignment character for cells in a column. See the char attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **char** attribute is not associated with the **ch** attribute in the DOM.

C0054:

The specification states:

1. Attribute
2. chOff
3. Offset of alignment character. See the charoff attribute definition in HTML 4.0.

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

The **chOff** attribute is not supported.

C0055:

The specification states:

1. Attribute
2. **height**
3. Cell height. See the height attribute definition in HTML 4.0. This attribute is
4. deprecated in HTML 4.0.

*All Document Modes (All Versions)*

The value of the **height** attribute is serialized by dropping the "px" suffix when set in the DOM. For example, writing <td height="100px"> in markup, accessing **td.height** from the DOM, returns 100. However, percentage values are unmodified. For example, with <td height="100%"> in markup, the DOM returns 100%.

## Error Handling

There are no additional error handling considerations.

## Security

There are no additional security considerations.

# Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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