



Document Object Model (DOM) Level 2 HTML Specification

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Please refer to the errata for this document, which may include some normative corrections.

This document is also available in these non-normative formats: XML file, plain text, PostScript file, PDF file, single HTML file, and ZIP file.

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Abstract

This specification defines the Document Object Model Level 2 HTML, a platform- and language-neutral interface that allows programs and scripts to dynamically access and update the content and structure of [HTML 4.01] and [XHTML 1.0] documents. The Document Object Model Level 2 HTML builds on the Document Object Model Level 2 Core [DOM Level 2 Core] and is not backward compatible with DOM Level 1 HTML [DOM Level 1].

Status of this document

This section describes the status of this document at the time of its publication. Other documents may supersede this document. The latest status of this document series is maintained at the W3C.

This is the 09 January 2003 of "DOM Level 2 HTML". This document has been reviewed by W3C Members, software developers, and other W3C groups and interested parties, and has been endorsed by the Director as a W3C Recommendation. It is a stable document and may be used as reference material or cited as a normative reference from another document. W3C's role in making the Recommendation is to draw attention to the specification and to promote its widespread deployment. This document enhances the interoperability of the Web.

Patent disclosures relevant to this specification may be found on the Working Group's public patent disclosure page.

This document has been produced as part of the W3C DOM Activity. The authors of this document are the DOM Working Group participants.

The English version of this specification is the only normative version. Information about translations of this document is available at <http://www.w3.org/2000/11/DOM-Level-2-translations>.

The list of known errors in this document is available at <http://www.w3.org/2000/11/DOM-Level-2-errata>

Comments on this document are invited and are to be sent to the public mailing list www-dom@w3.org. An archive is available at <http://lists.w3.org/Archives/Public/www-dom/>.

An implementation report, based on the DOM Test Suite work, is available at <http://www.w3.org/2002/11/DOM-Level-2-HTML-Results>.

A list of current W3C Recommendations and other technical documents can be found at <http://www.w3.org/TR>.

Note: This specification renders the DOM Level 1 HTML Recommendation obsolete given that some changes from DOM Level 1 HTML are incompatible with that specification but represent more accurately the state of deployed software. W3C strongly suggests that developers and authors conform to DOM Level 2 HTML instead.

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1. Document Object Model HTML

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1.1. Introduction

This section extends the DOM Level 2 Core API [DOM Level 2 Core] to describe objects and methods specific to *HTML* [p.127] documents [HTML 4.01], and XHTML documents [XHTML 1.0]. In general, the functionality needed to manipulate hierarchical document structures, elements, and attributes will be found in the core section; functionality that depends on the specific elements defined in HTML will be found in this section.

The goals of the HTML-specific DOM API are:

- to specialize and add functionality that relates specifically to HTML documents and elements.
- to address issues of backwards compatibility with the *DOM Level 0* [p.127] .
- to provide *convenience* [p.127] mechanisms, where appropriate, for common and frequent operations on HTML documents.

The key differences between the core DOM and the HTML application of DOM is that the HTML Document Object Model exposes a number of *convenience* [p.127] methods and properties that are consistent with the existing models and are more appropriate to script writers. In many cases, these enhancements are not applicable to a general DOM because they rely on the presence of a predefined DTD. The transitional or frameset DTD for HTML 4.01, or the XHTML 1.0 DTDs are assumed. Interoperability between implementations is only guaranteed for elements and attributes that are specified in the HTML 4.01 and XHTML 1.0 DTDs.

More specifically, this document includes the following specializations for HTML:

- An `HTMLDocument` [p.15] interface, derived from the core `Document` interface. `HTMLDocument` specifies the operations and queries that can be made on a HTML document.
- An `HTMLElement` [p.20] interface, derived from the core `Element` interface. `HTMLElement` specifies the operations and queries that can be made on any HTML element. Methods on `HTMLElement` include those that allow for the retrieval and modification of attributes that apply to all HTML elements.
- Specializations for all HTML elements that have attributes that extend beyond those specified in the `HTMLElement` [p.20] interface. For all such attributes, the derived interface for the element contains explicit methods for setting and getting the values.

The DOM Level 2 includes mechanisms to access and modify style specified through CSS and defines an event model that can be used with HTML documents.

The interfaces found within this section are not mandatory. A DOM application may use the `hasFeature(feature, version)` method of the `DOMImplementation` interface with parameter values "HTML" and "2.0" (respectively) to determine whether or not this module is supported by the implementation. In addition to the feature string "HTML", the feature string "XHTML" (version string "2.0") can be used to check if the implementation supports XHTML (this is equivalent to checking the features "XML" and "HTML"). In order to fully support this module, an implementation must also support the "Core" feature defined [DOM Level 2 Core]. Please refer to additional information about *conformance* in the DOM Level 2 Core specification [DOM Level 2 Core].

A DOM application can use the `hasFeature` method of the `DOMImplementation` interface to determine whether they are supported or not. The feature string for all the interfaces listed in this section is "HTML" and the version is "2.0". In order to fully support this feature, an implementation needs also to support the "Core" feature defined in the Document Object Model Level 2 Core [DOM Level 2 Core] (see also *Conformance*).

The interfaces in this specification are designed for [HTML 4.01] documents, as well as for [XHTML 1.0] documents.

Note: This specification does not intend to define exactly how a user agent will respond to a change to any attribute on an element that directly or indirectly references external data, such elements are `HTMLAppletElement` [p.47], `HTMLFrameElement` [p.59], `HTMLFrameSetElement` [p.59], `HTMLIFrameElement` [p.60], `HTMLImageElement` [p.43], `HTMLLinkElement` [p.22], `HTMLObjectElement` [p.44], `HTMLParamElement` [p.46], and `HTMLScriptElement` [p.49].

1.2. HTML Application of Core DOM

1.2.1. Naming Conventions

The HTML DOM follows a naming convention for properties, methods, events, collections, and data types. All names are defined as one or more English words concatenated together to form a single string.

1.2.1.1. Properties and Methods

The property or method name starts with the initial keyword in lowercase, and each subsequent word starts with a capital letter. For example, a property that returns document meta information such as the date the file was created might be named "fileDateCreated". In the ECMAScript binding, properties are exposed as properties of a given object. In Java, properties are exposed with get and set methods.

1.2.1.2. Non-HTML 4.0 interfaces and attributes

While most of the interfaces defined below can be mapped directly to elements defined in the HTML 4.01 Recommendation, some of them cannot. Similarly, not all attributes listed below have counterparts in the HTML 4.01 specification (and some do, but have been renamed to avoid conflicts with scripting languages). Interfaces and attribute definitions that have links to the HTML 4.0 specification have corresponding element and attribute definitions there; all others are added by this specification, either for convenience or backwards compatibility with *DOM Level 0* [p.127] implementations.

1.3. XHTML and the HTML DOM

The DOM HTML Level 1 API [DOM Level 1] were originally intended to be used only for HTML 4.01 documents [HTML 4.01]. The APIs were defined well before XHTML 1.0 [XHTML 1.0] became a specification, or before it was worked on by the HTML Working Group.

From the DOM point of view, The biggest difference between HTML 4.01 (and earlier) and XHTML 1.0 is that XHTML is case sensitive, whereas HTML 4.01 is case insensitive. The HTML case insensitivity is also reflected in the DOM HTML API. For instance, element and attribute names are exposed as all uppercase (for consistency) when used on an HTML document, regardless of the character case used in the markup. Since XHTML is based on XML, in XHTML everything is case sensitive, and element and attribute names must be lowercase in the markup.

Developers need to take two things into account when writing code that works on both HTML and XHTML documents. When comparing element or attribute names to strings, the string compare needs to be case insensitive, or the element or attribute name needs to be converted into lowercase before comparing against a lowercase string. Second, when calling methods that are case insensitive when used on a HTML document (such as `getElementByTagName()` and `namedItem()`), the string that is passed in should be lowercase.

Note: The interfaces provided in this document are only for [HTML 4.01] and [XHTML 1.0] documents and are not guaranteed to work with any future version of XHTML.

1.4. Miscellaneous Object Definitions

Interface *HTMLCollection*

An `HTMLCollection` is a list of nodes. An individual node may be accessed by either ordinal index or the node's `name` or `id` attributes.

Note: Collections in the HTML DOM are assumed to be *live* [p.127] meaning that they are automatically updated when the underlying document is changed.

IDL Definition

```
interface HTMLCollection {
    readonly attribute unsigned long    length;
    Node                               item(in unsigned long index);
    Node                               namedItem(in DOMString name);
};
```

Attributes

`length` of type `unsigned long`, `readonly`
This attribute specifies the length or *size* of the list.

Methods

`item`
This method retrieves a node specified by ordinal index. Nodes are numbered in tree order (depth-first traversal order).

Parameters

index of type `unsigned long`

The index of the node to be fetched. The index origin is 0.

Return Value

Node The **Node** at the corresponding position upon success. A value of `null` is returned if the index is out of range.

No Exceptions**namedItem**

This method retrieves a **Node** using a name. With [HTML 4.01] documents, it first searches for a **Node** with a matching `id` attribute. If it doesn't find one, it then searches for a **Node** with a matching `name` attribute, but only on those elements that are allowed a name attribute. With [XHTML 1.0] documents, this method only searches for **Nodes** with a matching `id` attribute. This method is case insensitive in HTML documents and case sensitive in XHTML documents.

Parameters

name of type `DOMString`

The name of the **Node** to be fetched.

Return Value

Node The **Node** with a `name` or `id` attribute whose value corresponds to the specified string. Upon failure (e.g., no node with this name exists), returns `null`.

No Exceptions**Interface *HTMLOptionsCollection*** (introduced in **DOM Level 2**)

An **HTMLOptionsCollection** is a list of nodes representing HTML option element. An individual node may be accessed by either ordinal index or the node's `name` or `id` attributes.

Note: Collections in the HTML DOM are assumed to be *live* [p.127] meaning that they are automatically updated when the underlying document is changed.

IDL Definition

```
// Introduced in DOM Level 2:
interface HTMLOptionsCollection {
    attribute unsigned long    length;
                                // raises(DOMException) on setting

    Node    item(in unsigned long index);
    Node    namedItem(in DOMString name);
};
```

Attributes

length of type `unsigned long`

This attribute specifies the length or *size* of the list.

Exceptions on setting

`DOMException` `NOT_SUPPORTED_ERR`: if setting the length is not allowed by the implementation.

Methods

`item`

This method retrieves a node specified by ordinal index. Nodes are numbered in tree order (depth-first traversal order).

Parameters

index of type `unsigned long`

The index of the node to be fetched. The index origin is 0.

Return Value

`Node` The `Node` at the corresponding position upon success. A value of `null` is returned if the index is out of range.

No Exceptions

`namedItem`

This method retrieves a `Node` using a name. It first searches for a `Node` with a matching `id` attribute. If it doesn't find one, it then searches for a `Node` with a matching `name` attribute, but only on those elements that are allowed a name attribute. This method is case insensitive in HTML documents and case sensitive in XHTML documents.

Parameters

name of type `DOMString`

The name of the `Node` to be fetched.

Return Value

`Node` The `Node` with a `name` or `id` attribute whose value corresponds to the specified string. Upon failure (e.g., no node with this name exists), returns `null`.

No Exceptions

1.5. Objects related to HTML documents

Interface *HTMLDocument*

An `HTMLDocument` is the root of the HTML hierarchy and holds the entire content. Besides providing access to the hierarchy, it also provides some *convenience* [p.127] methods for accessing certain sets of information from the document.

The following properties have been deprecated in favor of the corresponding ones for the **BODY** element:

- `alinkColor`
- `background`
- `bgColor`
- `fgColor`
- `linkColor`
- `vlinkColor`

Note: In DOM Level 2, the method `getElementById` is inherited from the `Document` interface where it was moved to.

IDL Definition

```
interface HTMLDocument : Document {
    attribute DOMString      title;
    readonly attribute DOMString  referrer;
    readonly attribute DOMString  domain;
    readonly attribute DOMString  URL;
    attribute HTMLCollection  body;
    readonly attribute HTMLCollection  images;
    readonly attribute HTMLCollection  applets;
    readonly attribute HTMLCollection  links;
    readonly attribute HTMLCollection  forms;
    readonly attribute HTMLCollection  anchors;
    attribute DOMString  cookie;
                                // raises(DOMException) on setting

    void      open();
    void      close();
    void      write(in DOMString text);
    void      writeln(in DOMString text);
    NodeList  getElementsByName(in DOMString elementName);
};
```

Attributes

`URL` of type `DOMString`, `readonly`

The absolute URI [IETF RFC 2396] of the document.

`anchors` of type `HTMLCollection` [p.13], `readonly`

A collection of all the anchor (A) elements in a document with a value for the `name` attribute.

Note: For reasons of backward compatibility, the returned set of anchors only contains those anchors created with the `name` attribute, not those created with the `id` attribute. Note that in [XHTML 1.0], the `name` attribute (see section 4.10) has no semantics and is only present for legacy user agents: the `id` attribute is used instead. Users should prefer the iterator mechanisms provided by [DOM Level 2 Traversal] instead.

applets of type `HTMLCollection` [p.13] , readonly

A collection of all the **OBJECT** elements that include applets and **APPLET** (*deprecated*) elements in a document.

body of type `HTMLElement` [p.20]

The element that contains the content for the document. In documents with **BODY** contents, returns the **BODY** element. In frameset documents, this returns the outermost **FRAMESET** element.

cookie of type `DOMString`

This mutable string attribute denotes persistent state information that (1) is associated with the current frame or document and (2) is composed of information described by the **cookies** non-terminal of [IETF RFC 2965], Section 4.2.2.

If no persistent state information is available for the current frame or document document, then this property's value is an empty string.

When this attribute is read, all cookies are returned as a single string, with each cookie's name-value pair concatenated into a list of name-value pairs, each list item being separated by a ';' (semicolon).

When this attribute is set, the value it is set to should be a string that adheres to the **cookie** non-terminal of [IETF RFC 2965]; that is, it should be a single name-value pair followed by zero or more cookie attribute values. If no domain attribute is specified, then the domain attribute for the new value defaults to the host portion of an absolute URI [IETF RFC 2396] of the current frame or document. If no path attribute is specified, then the path attribute for the new value defaults to the absolute path portion of the URI [IETF RFC 2396] of the current frame or document. If no max-age attribute is specified, then the max-age attribute for the new value defaults to a user agent defined value. If a cookie with the specified name is already associated with the current frame or document, then the new value as well as the new attributes replace the old value and attributes. If a max-age attribute of 0 is specified for the new value, then any existing cookies of the specified name are removed from the cookie storage.

Note: See [IETF RFC 2965] for the semantics of persistent state item attribute value pairs.

Note: The precise nature of a user agent session is not defined by this specification.

Exceptions on setting

DOMException **SYNTAX_ERR**: If the new value does not adhere to the cookie syntax specified by [IETF RFC 2965].

domain of type `DOMString`, readonly

The domain name of the server that served the document, or `null` if the server cannot be identified by a domain name.

forms of type `HTMLCollection` [p.13] , readonly

A collection of all the forms of a document.

images of type `HTMLCollection` [p.13] , readonly

A collection of all the **IMG** elements in a document. The behavior is limited to **IMG** elements for backwards compatibility.

Note: As suggested by [HTML 4.01], to include images, authors may use the **OBJECT** element or the **IMG** element. Therefore, it is recommended not to use this attribute to find the images in the document but `getElementsByTagName` with HTML 4.01 or `getElementsByNameNS` with XHTML 1.0.

`links` of type `HTMLCollection` [p.13] , readonly

A collection of all **AREA** elements and anchor (**A**) elements in a document with a value for the `href` attribute.

`referrer` of type `DOMString`, readonly

Returns the URI [IETF RFC 2396] of the page that linked to this page. The value is an empty string if the user navigated to the page directly (not through a link, but, for example, via a bookmark).

`title` of type `DOMString`

The title of a document as specified by the **TITLE** element in the head of the document.

Methods

`close`

Closes a document stream opened by `open( )` and forces rendering.

No Parameters

No Return Value

No Exceptions

`getElementsByName`

With [HTML 4.01] documents, this method returns the (possibly empty) collection of elements whose `name` value is given by `elementName`. In [XHTML 1.0] documents, this methods only return the (possibly empty) collection of form controls with matching name. This method is case sensitive.

Parameters

`elementName` of type `DOMString`

The name attribute value for an element.

Return Value

`NodeList` The matching elements.

No Exceptions

`open`

Open a document stream for writing. If a document exists in the target, this method clears it.

Note: This method and the ones following allow a user to add to or replace the structure model of a document using strings of unparsed HTML. At the time of writing alternate methods for providing similar functionality for both HTML and XML documents were being considered (see [DOM Level 3 Load and Save]).

No Parameters

No Return Value

No Exceptions

write

Write a string of text to a document stream opened by `open()`. Note that the function will produce a document which is not necessarily driven by a DTD and therefore might be produce an invalid result in the context of the document.

Parameters

text of type `DOMString`

The string to be parsed into some structure in the document structure model.

No Return Value**No Exceptions****writeln**

Write a string of text followed by a newline character to a document stream opened by `open()`. Note that the function will produce a document which is not necessarily driven by a DTD and therefore might be produce an invalid result in the context of the document

Parameters

text of type `DOMString`

The string to be parsed into some structure in the document structure model.

No Return Value**No Exceptions**

1.6. HTML Elements

1.6.1. Property Attributes

HTML attributes are exposed as properties on the element object. The DOM naming conventions always determine the name of the exposed property, and are independent of the case of the attribute in the source document. The data type of the property is in general determined by the type of the attribute as determined by the HTML 4.01 (transitional and frameset) and XHTML 1.0 DTDs. The attributes have the semantics (including case-sensitivity) given in the [HTML 4.01] and [XHTML 1.0] specifications.

The attributes are exposed as properties for compatibility with *DOM Level 0* [p.127]. This usage is deprecated because it can not be generalized to all possible attribute names for XML. We recommend the use of generic methods on the core `Element` interface for setting, getting and removing attributes.

DTD Data Type	Object Model Data Type
CDATA	<code>DOMString</code>
Value list (e.g., (left right center))	<code>DOMString</code>
one-value Value list (e.g., (disabled))	<code>boolean</code>
Number	<code>long int</code>

In an HTML document the return value of an attribute that has a data type that is a value list is normalized to lowercase (independent of the case of the value in the source document).

For example, if the value of the `align` attribute on a `P` element is "Left" (which is not a valid value in XHTML due to the case sensitivity of XHTML) then the value is returned as "left". For attributes with the CDATA data type, the case of the return value is that given in the source document.

The return value of an attribute that is unspecified and does not have a default value is the empty string if the return type is a `DOMString`, false if the return type is a boolean and 0 if the return type is a number.

1.6.2. Naming Exceptions

To avoid namespace conflicts, two attributes with the same name as a keyword in one of our chosen *binding languages* [p.127] were prefixed. The `for` attribute of the `LABEL` and `SCRIPT` elements collides with loop construct naming conventions and is renamed `htmlFor`. The `class` attribute of the `HTML` elements collides with class definitions naming conventions and is renamed `className`.

1.6.3. Exposing Element Type Names (`tagName`, (`nodeName`))

If the document is an HTML 4.01 document the element type names exposed through a property are in uppercase. For example, the body element type name is exposed through the `tagName` property as `BODY`. If the document is an XHTML 1.0 document the element name is exposed as it is written in the XHTML file. This means that the element type names are exposed in lowercase for XHTML documents since the XHTML 1.0 DTDs defines element type names as lowercase, and XHTML, being derived from XML, is case sensitive.

1.6.4. The `HTMLElement` interface

Interface `HTMLElement`

All HTML element interfaces derive from this class. Elements that only expose the HTML core attributes are represented by the base `HTMLElement` interface. These elements are as follows:

- special: `SUB`, `SUP`, `SPAN`, `BDO`
- font: `TT`, `I`, `B`, `U`, `S`, `STRIKE`, `BIG`, `SMALL`
- phrase: `EM`, `STRONG`, `DFN`, `CODE`, `SAMP`, `KBD`, `VAR`, `CITE`, `ACRONYM`, `ABBR`
- list: `DD`, `DT`
- `NOFRAMES`, `NOSCRIPT`
- `ADDRESS`, `CENTER`

Note: The `style` attribute of an HTML element is accessible through the `ElementCSSInlineStyle` interface which is defined in the CSS module [DOM Level 2 Style Sheets and CSS].

IDL Definition

```

interface HTMLElement : Element {
    attribute DOMString    id;
    attribute DOMString    title;
    attribute DOMString    lang;
    attribute DOMString    dir;
    attribute DOMString    className;
};

```

Attributes

className of type **DOMString**

The class attribute of the element. This attribute has been renamed due to conflicts with the "class" keyword exposed by many languages. See the class attribute definition in HTML 4.01.

dir of type **DOMString**

Specifies the base direction of directionally neutral text and the directionality of tables. See the dir attribute definition in HTML 4.01.

id of type **DOMString**

The element's identifier. See the id attribute definition in HTML 4.01.

lang of type **DOMString**

Language code defined in RFC 1766. See the lang attribute definition in HTML 4.01.

title of type **DOMString**

The element's advisory title. See the title attribute definition in HTML 4.01.

1.6.5. Object definitions

Interface *HTMLHtmlElement*

Root of an HTML document. See the HTML element definition in HTML 4.01.

IDL Definition

```

interface HTMLHtmlElement : HTMLElement {
    attribute DOMString    version;
};

```

Attributes

version of type **DOMString**

Version information about the document's DTD. See the version attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLHeadElement*

Document head information. See the HEAD element definition in HTML 4.01.

IDL Definition

```

interface HTMLHeadElement : HTMLElement {
    attribute DOMString    profile;
};

```

Attributes

profile of type **DOMString**

URI [IETF RFC 2396] designating a metadata profile. See the profile attribute definition in HTML 4.01.

Interface *HTMLLinkElement*

The **LINK** element specifies a link to an external resource, and defines this document's relationship to that resource (or vice versa). See the **LINK** element definition in HTML 4.01 (see also the **LinkStyle** interface in the **StyleSheet** module [DOM Level 2 Style Sheets and CSS]).

IDL Definition

```
interface HTMLLinkElement : HTMLInputElement {
    attribute boolean        disabled;
    attribute DOMString      charset;
    attribute DOMString      href;
    attribute DOMString      hreflang;
    attribute DOMString      media;
    attribute DOMString      rel;
    attribute DOMString      rev;
    attribute DOMString      target;
    attribute DOMString      type;
};
```

Attributes

charset of type **DOMString**

The character encoding of the resource being linked to. See the charset attribute definition in HTML 4.01.

disabled of type **boolean**

Enables/disables the link. This is currently only used for style sheet links, and may be used to activate or deactivate style sheets.

href of type **DOMString**

The URI [IETF RFC 2396] of the linked resource. See the href attribute definition in HTML 4.01.

hreflang of type **DOMString**

Language code of the linked resource. See the hreflang attribute definition in HTML 4.01.

media of type **DOMString**

Designed for use with one or more target media. See the media attribute definition in HTML 4.01.

rel of type **DOMString**

Forward link type. See the rel attribute definition in HTML 4.01.

rev of type **DOMString**

Reverse link type. See the rev attribute definition in HTML 4.01.

target of type **DOMString**

Frame to render the resource in. See the target attribute definition in HTML 4.01.

type of type **DOMString**

Advisory content type. See the type attribute definition in HTML 4.01.

Interface *HTMLTitleElement*

The document title. See the TITLE element definition in HTML 4.01.

IDL Definition

```
interface HTMLTitleElement : HTMLElement {
    attribute DOMString      text;
};
```

Attributes

text of type DOMString
The specified title as a string.

Interface *HTMLMetaElement*

This contains generic meta-information about the document. See the META element definition in HTML 4.01.

IDL Definition

```
interface HTMLMetaElement : HTMLElement {
    attribute DOMString      content;
    attribute DOMString      httpEquiv;
    attribute DOMString      name;
    attribute DOMString      scheme;
};
```

Attributes

content of type DOMString
Associated information. See the content attribute definition in HTML 4.01.
httpEquiv of type DOMString
HTTP response header name [IETF RFC 2616]. See the http-equiv attribute definition in HTML 4.01.
name of type DOMString
Meta information name. See the name attribute definition in HTML 4.01.
scheme of type DOMString
Select form of content. See the scheme attribute definition in HTML 4.01.

Interface *HTMLBaseElement*

Document base URI [IETF RFC 2396]. See the BASE element definition in HTML 4.01.

IDL Definition

```
interface HTMLBaseElement : HTMLElement {
    attribute DOMString      href;
    attribute DOMString      target;
};
```

Attributes

href of type DOMString

The base URI [IETF RFC 2396]. See the href attribute definition in HTML 4.01.

target of type DOMString

The default target frame. See the target attribute definition in HTML 4.01.

Interface *HTMLIsIndexElement*

This element is used for single-line text input. See the ISINDEX element definition in HTML 4.01. This element is deprecated in HTML 4.01.

IDL Definition

```
interface HTMLIsIndexElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    attribute DOMString      prompt;
};
```

Attributes

form of type HTMLFormElement [p.25], readonly

Returns the FORM element containing this control. Returns null if this control is not within the context of a form.

prompt of type DOMString

The prompt message. See the prompt attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLStyleElement*

Style information. See the STYLE element definition in HTML 4.01, the CSS module [DOM Level 2 Style Sheets and CSS] and the LinkStyle interface in the StyleSheets module [DOM Level 2 Style Sheets and CSS].

IDL Definition

```
interface HTMLStyleElement : HTMLElement {
    attribute boolean      disabled;
    attribute DOMString    media;
    attribute DOMString    type;
};
```

Attributes

disabled of type boolean

Enables/disables the style sheet.

media of type DOMString

Designed for use with one or more target media. See the media attribute definition in HTML 4.01.

type of type DOMString

The content type of the style sheet language. See the type attribute definition in HTML 4.01.

Interface *HTMLBodyElement*

The HTML document body. This element is always present in the DOM API, even if the tags are not present in the source document. See the BODY element definition in HTML 4.01.

IDL Definition

```
interface HTMLBodyElement : HTMLElement {
    attribute DOMString    aLink;
    attribute DOMString    background;
    attribute DOMString    bgColor;
    attribute DOMString    link;
    attribute DOMString    text;
    attribute DOMString    vLink;
};
```

Attributes

aLink of type **DOMString**

Color of active links (after mouse-button down, but before mouse-button up). See the aLink attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

background of type **DOMString**

URI [IETF RFC 2396] of the background texture tile image. See the background attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

bgColor of type **DOMString**

Document background color. See the bgColor attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

link of type **DOMString**

Color of links that are not active and unvisited. See the link attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

text of type **DOMString**

Document text color. See the text attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

vLink of type **DOMString**

Color of links that have been visited by the user. See the vLink attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLFormElement*

The FORM element encompasses behavior similar to a collection and an element. It provides direct access to the contained form controls as well as the attributes of the form element. See the FORM element definition in HTML 4.01.

IDL Definition

```
interface HTMLFormElement : HTMLElement {
    readonly attribute HTMLCollection elements;
    readonly attribute long    length;
    attribute DOMString    name;
    attribute DOMString    acceptCharset;
    attribute DOMString    action;
    attribute DOMString    enctype;
    attribute DOMString    method;
```

```

        attribute DOMString    target;
    void    submit();
    void    reset();
};

```

Attributes

acceptCharset of type **DOMString**

List of character sets supported by the server. See the accept-charset attribute definition in HTML 4.01.

action of type **DOMString**

Server-side form handler. See the action attribute definition in HTML 4.01.

elements of type **HTMLCollection** [p.13] , readonly

Returns a collection of all form control elements in the form.

enctype of type **DOMString**

The content type of the submitted form, generally "application/x-www-form-urlencoded". See the enctype attribute definition in HTML 4.01.

Note: The onsubmit even handler is not guaranteed to be triggered when invoking this method. The behavior is inconsistent for historical reasons and authors should not rely on a particular one.

length of type **long**, readonly

The number of form controls in the form.

method of type **DOMString**

HTTP method [IETF RFC 2616] used to submit form. See the method attribute definition in HTML 4.01.

name of type **DOMString**

Names the form.

target of type **DOMString**

Frame to render the resource in. See the target attribute definition in HTML 4.01.

Methods

reset

Restores a form element's default values. It performs the same action as a reset button.

No Parameters

No Return Value

No Exceptions

submit

Submits the form. It performs the same action as a submit button.

No Parameters

No Return Value

No Exceptions

Interface *HTMLSelectElement*

The select element allows the selection of an option. The contained options can be directly accessed through the select element as a collection. See the SELECT element definition in HTML 4.01.

IDL Definition

```

interface HTMLSelectElement : HTMLElement {
    readonly attribute DOMString      type;
        attribute long                selectedIndex;
        attribute DOMString           value;
    // Modified in DOM Level 2:
        attribute unsigned long       length;
                                          // raises(DOMException) on setting

    readonly attribute HTMLFormElement form;
    // Modified in DOM Level 2:
    readonly attribute HTMLOptionsCollection options;
        attribute boolean            disabled;
        attribute boolean            multiple;
        attribute DOMString           name;
        attribute long                size;
        attribute long                tabIndex;

    void                add(in HTMLElement element,
                           in HTMLElement before)
                           raises(DOMException);

    void                remove(in long index);
    void                blur();
    void                focus();
};

```

Attributes

disabled of type **boolean**

The control is unavailable in this context. See the disabled attribute definition in HTML 4.01.

form of type **HTMLFormElement** [p.25] , **readonly**

Returns the **FORM** element containing this control. Returns **null** if this control is not within the context of a form.

length of type **unsigned long**, modified in **DOM Level 2**

The number of options in this **SELECT**.

Exceptions on setting

DOMException **NOT_SUPPORTED_ERR**: if setting the length is not allowed by the implementation.

multiple of type **boolean**

If true, multiple **OPTION** elements may be selected in this **SELECT**. See the multiple attribute definition in HTML 4.01.

name of type **DOMString**

Form control or object name when submitted with a form. See the name attribute definition in HTML 4.01.

options of type **HTMLOptionsCollection** [p.14] , **readonly**, modified in **DOM Level 2**

The collection of **OPTION** elements contained by this element.

selectedIndex of type **long**

The ordinal index of the selected option, starting from 0. The value -1 is returned if no element is selected. If multiple options are selected, the index of the first selected option is

returned.

size of type **long**

Number of visible rows. See the size attribute definition in HTML 4.01.

tabIndex of type **long**

Index that represents the element's position in the tabbing order. See the tabIndex attribute definition in HTML 4.01.

type of type **DOMString**, **readonly**

The type of this form control. This is the string "select-multiple" when the multiple attribute is **true** and the string "select-one" when **false**.

value of type **DOMString**

The current form control value (i.e. the value of the currently selected option), if multiple options are selected this is the value of the first selected option.

Methods

add

Add a new element to the collection of **OPTION** elements for this **SELECT**. This method is the equivalent of the **appendChild** method of the **Node** interface if the **before** parameter is **null**. It is equivalent to the **insertBefore** method on the parent of **before** in all other cases. This method may have no effect if the new element is not an **OPTION** or an **OPTGROUP**.

Parameters

element of type **HTMLElement** [p.20]

The element to add.

before of type **HTMLElement**

The element to insert before, or **null** for the tail of the list.

Exceptions

DOMException **NOT_FOUND_ERR**: Raised if **before** is not a descendant of the **SELECT** element.

No Return Value

blur

Removes keyboard focus from this element.

No Parameters

No Return Value

No Exceptions

focus

Gives keyboard focus to this element.

No Parameters

No Return Value

No Exceptions

remove

Remove an element from the collection of **OPTION** elements for this **SELECT**. Does nothing if no element has the given index.

Parameters

index of type long

The index of the item to remove, starting from 0.

No Return Value

No Exceptions

Interface *HTMLOptGroupElement*

Group options together in logical subdivisions. See the OPTGROUP element definition in HTML 4.01.

IDL Definition

```
interface HTMLOptGroupElement : HTMLElement {
    attribute boolean        disabled;
    attribute DOMString      label;
};
```

Attributes

disabled of type boolean

The control is unavailable in this context. See the disabled attribute definition in HTML 4.01.

label of type DOMString

Assigns a label to this option group. See the label attribute definition in HTML 4.01.

Interface *HTMLOptionElement*

A selectable choice. See the OPTION element definition in HTML 4.01.

IDL Definition

```
interface HTMLOptionElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    // Modified in DOM Level 2:
    attribute boolean        defaultSelected;
    readonly attribute DOMString      text;
    // Modified in DOM Level 2:
    readonly attribute long          index;
    attribute boolean        disabled;
    attribute DOMString      label;
    attribute boolean        selected;
    attribute DOMString      value;
};
```

Attributes

defaultSelected of type boolean, modified in **DOM Level 2**

Represents the value of the HTML selected attribute. The value of this attribute does not change if the state of the corresponding form control, in an interactive user agent, changes. See the selected attribute definition in HTML 4.01.

disabled of type boolean

The control is unavailable in this context. See the disabled attribute definition in HTML 4.01.

form of type `HTMLFormElement` [p.25] , readonly

Returns the `FORM` element containing this control. Returns `null` if this control is not within the context of a form.

index of type `long`, readonly, modified in **DOM Level 2**

The index of this `OPTION` in its parent `SELECT`, starting from 0.

label of type `DOMString`

Option label for use in hierarchical menus. See the label attribute definition in HTML 4.01.

selected of type `boolean`

Represents the current state of the corresponding form control, in an interactive user agent. Changing this attribute changes the state of the form control, but does not change the value of the HTML selected attribute of the element.

text of type `DOMString`, readonly

The text contained within the option element.

value of type `DOMString`

The current form control value. See the value attribute definition in HTML 4.01.

Interface *HTMLInputElement*

Form control.

Note: Depending upon the environment in which the page is being viewed, the value property may be read-only for the file upload input type. For the "password" input type, the actual value returned may be masked to prevent unauthorized use. See the `INPUT` element definition in [HTML 4.01].

IDL Definition

```
interface HTMLInputElement : HTMLElement {
    attribute DOMString      defaultValue;
    attribute boolean        defaultChecked;
    readonly attribute HTMLFormElement form;
    attribute DOMString      accept;
    attribute DOMString      accessKey;
    attribute DOMString      align;
    attribute DOMString      alt;
    attribute boolean        checked;
    attribute boolean        disabled;
    attribute long           maxLength;
    attribute DOMString      name;
    attribute boolean        readOnly;
    // Modified in DOM Level 2:
    attribute unsigned long  size;
    attribute DOMString      src;
    attribute long           tabIndex;
    // Modified in DOM Level 2:
    attribute DOMString      type;
    attribute DOMString      useMap;
    attribute DOMString      value;
    void blur();
    void focus();
    void select();
    void click();
};
```

Attributes**accept** of type **DOMString**

A comma-separated list of content types that a server processing this form will handle correctly. See the accept attribute definition in HTML 4.01.

accessKey of type **DOMString**

A single character access key to give access to the form control. See the accesskey attribute definition in HTML 4.01.

align of type **DOMString**

Aligns this object (vertically or horizontally) with respect to its surrounding text. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

alt of type **DOMString**

Alternate text for user agents not rendering the normal content of this element. See the alt attribute definition in HTML 4.01.

checked of type **boolean**

When the **type** attribute of the element has the value "radio" or "checkbox", this represents the current state of the form control, in an interactive user agent. Changes to this attribute change the state of the form control, but do not change the value of the HTML checked attribute of the INPUT element.

Note: During the handling of a click event on an input element with a type attribute that has the value "radio" or "checkbox", some implementations may change the value of this property before the event is being dispatched in the document. If the default action of the event is canceled, the value of the property may be changed back to its original value. This means that the value of this property during the handling of click events is implementation dependent.

defaultChecked of type **boolean**

When **type** has the value "radio" or "checkbox", this represents the HTML checked attribute of the element. The value of this attribute does not change if the state of the corresponding form control, in an interactive user agent, changes. See the checked attribute definition in HTML 4.01.

defaultValue of type **DOMString**

When the **type** attribute of the element has the value "text", "file" or "password", this represents the HTML value attribute of the element. The value of this attribute does not change if the contents of the corresponding form control, in an interactive user agent, changes. See the value attribute definition in HTML 4.01.

disabled of type **boolean**

The control is unavailable in this context. See the disabled attribute definition in HTML 4.01.

form of type **HTMLFormElement** [p.25] , readonly

Returns the **FORM** element containing this control. Returns **null** if this control is not within the context of a form.

maxLength of type **long**

Maximum number of characters for text fields, when **type** has the value "text" or "password". See the maxlength attribute definition in HTML 4.01.

name of type **DOMString**

Form control or object name when submitted with a form. See the name attribute definition in HTML 4.01.

readOnly of type **boolean**

This control is read-only. Relevant only when **type** has the value "text" or "password". See the readOnly attribute definition in HTML 4.01.

size of type **unsigned long**, modified in **DOM Level 2**

Size information. The precise meaning is specific to each type of field. See the size attribute definition in HTML 4.01.

src of type **DOMString**

When the **type** attribute has the value "image", this attribute specifies the location of the image to be used to decorate the graphical submit button. See the src attribute definition in HTML 4.01.

tabIndex of type **long**

Index that represents the element's position in the tabbing order. See the tabIndex attribute definition in HTML 4.01.

type of type **DOMString**, modified in **DOM Level 2**

The type of control created (all lower case). See the type attribute definition in HTML 4.01.

useMap of type **DOMString**

Use client-side image map. See the usemap attribute definition in HTML 4.01.

value of type **DOMString**

When the **type** attribute of the element has the value "text", "file" or "password", this represents the current contents of the corresponding form control, in an interactive user agent. Changing this attribute changes the contents of the form control, but does not change the value of the HTML value attribute of the element. When the **type** attribute of the element has the value "button", "hidden", "submit", "reset", "image", "checkbox" or "radio", this represents the HTML value attribute of the element. See the value attribute definition in HTML 4.01.

Methods

blur

Removes keyboard focus from this element.

No Parameters

No Return Value

No Exceptions

click

Simulate a mouse-click. For **INPUT** elements whose **type** attribute has one of the following values: "button", "checkbox", "radio", "reset", or "submit".

No Parameters

No Return Value

No Exceptions

focus

Gives keyboard focus to this element.

No Parameters

No Return Value

No Exceptions

select

Select the contents of the text area. For **INPUT** elements whose **type** attribute has one of the following values: "text", "file", or "password".

No Parameters

No Return Value

No Exceptions

Interface *HTMLTextAreaElement*

Multi-line text field. See the **TEXTAREA** element definition in HTML 4.01.

IDL Definition

```
interface HTMLTextAreaElement : HTMLElement {
  // Modified in DOM Level 2:
    attribute DOMString      defaultValue;
  readonly attribute HTMLFormElement form;
    attribute DOMString      accessKey;
    attribute long           cols;
    attribute boolean        disabled;
    attribute DOMString      name;
    attribute boolean        readOnly;
    attribute long           rows;
    attribute long           tabIndex;
  readonly attribute DOMString type;
    attribute DOMString      value;

  void      blur();
  void      focus();
  void      select();
};
```

Attributes

accessKey of type **DOMString**

A single character access key to give access to the form control. See the **accesskey** attribute definition in HTML 4.01.

cols of type **long**

Width of control (in characters). See the **cols** attribute definition in HTML 4.01.

defaultValue of type **DOMString**, modified in **DOM Level 2**

Represents the contents of the element. The value of this attribute does not change if the contents of the corresponding form control, in an interactive user agent, changes.

disabled of type **boolean**

The control is unavailable in this context. See the **disabled** attribute definition in HTML 4.01.

form of type **HTMLFormElement** [p.25] , **readonly**

Returns the **FORM** element containing this control. Returns **null** if this control is not within the context of a form.

name of type **DOMString**

Form control or object name when submitted with a form. See the **name** attribute definition in HTML 4.01.

`readOnly` of type `boolean`

This control is read-only. See the `readOnly` attribute definition in HTML 4.01.

`rows` of type `long`

Number of text rows. See the `rows` attribute definition in HTML 4.01.

`tabIndex` of type `long`

Index that represents the element's position in the tabbing order. See the `tabIndex` attribute definition in HTML 4.01.

`type` of type `DOMString`, `readonly`

The type of this form control. This the string "textarea".

`value` of type `DOMString`

Represents the current contents of the corresponding form control, in an interactive user agent. Changing this attribute changes the contents of the form control, but does not change the contents of the element. If the entirety of the data can not fit into a single `DOMString`, the implementation may truncate the data.

Methods

`blur`

Removes keyboard focus from this element.

No Parameters

No Return Value

No Exceptions

`focus`

Gives keyboard focus to this element.

No Parameters

No Return Value

No Exceptions

`select`

Select the contents of the TEXTAREA.

No Parameters

No Return Value

No Exceptions

Interface *HTMLButtonElement*

Push button. See the `BUTTON` element definition in HTML 4.01.

IDL Definition

```
interface HTMLButtonElement : HTMLElement {
  readonly attribute HTMLFormElement form;
  attribute DOMString      accessKey;
  attribute boolean        disabled;
  attribute DOMString      name;
  attribute long           tabIndex;
  readonly attribute DOMString type;
  attribute DOMString      value;
};
```

Attributes

accessKey of type `DOMString`

A single character access key to give access to the form control. See the `accesskey` attribute definition in HTML 4.01.

disabled of type `boolean`

The control is unavailable in this context. See the `disabled` attribute definition in HTML 4.01.

form of type `HTMLFormElement` [p.25] , `readonly`

Returns the `FORM` element containing this control. Returns `null` if this control is not within the context of a form.

name of type `DOMString`

Form control or object name when submitted with a form. See the `name` attribute definition in HTML 4.01.

tabIndex of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.01.

type of type `DOMString`, `readonly`

The type of button (all lower case). See the `type` attribute definition in HTML 4.01.

value of type `DOMString`

The current form control value. See the `value` attribute definition in HTML 4.01.

Interface *HTMLLabelElement*

Form field label text. See the `LABEL` element definition in HTML 4.01.

IDL Definition

```
interface HTMLLabelElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    attribute DOMString      accessKey;
    attribute DOMString      htmlFor;
};
```

Attributes

accessKey of type `DOMString`

A single character access key to give access to the form control. See the `accesskey` attribute definition in HTML 4.01.

form of type `HTMLFormElement` [p.25] , `readonly`

Returns the `FORM` element containing this control. Returns `null` if this control is not within the context of a form.

htmlFor of type `DOMString`

This attribute links this label with another form control by `id` attribute. See the `for` attribute definition in HTML 4.01.

Interface *HTMLFieldSetElement*

Organizes form controls into logical groups. See the `FIELDSET` element definition in HTML 4.01.

IDL Definition

```
interface HTMLFieldSetElement : HTMLElement {
    readonly attribute HTMLFormElement form;
};
```

Attributes

form of type HTMLFormElement [p.25], readonly

Returns the FORM element containing this control. Returns null if this control is not within the context of a form.

Interface *HTMLLegendElement*

Provides a caption for a FIELDSET grouping. See the LEGEND element definition in HTML 4.01.

IDL Definition

```
interface HTMLLegendElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    attribute DOMString      accessKey;
    attribute DOMString      align;
};
```

Attributes

accessKey of type DOMString

A single character access key to give access to the form control. See the accesskey attribute definition in HTML 4.01.

align of type DOMString

Text alignment relative to FIELDSET. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

form of type HTMLFormElement [p.25], readonly

Returns the FORM element containing this control. Returns null if this control is not within the context of a form.

Interface *HTMLULListElement*

Unordered list. See the UL element definition in HTML 4.01.

IDL Definition

```
interface HTMLULListElement : HTMLElement {
    attribute boolean      compact;
    attribute DOMString    type;
};
```

Attributes

compact of type boolean

Reduce spacing between list items. See the compact attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

type of type DOMString

Bullet style. See the type attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLOLListElement*

Ordered list. See the OL element definition in HTML 4.01.

IDL Definition

```
interface HTMLListElement : HTMLElement {
    attribute boolean    compact;
    attribute long       start;
    attribute DOMString  type;
};
```

Attributes

compact of type **boolean**

Reduce spacing between list items. See the compact attribute definition in HTML 4.01.

This attribute is deprecated in HTML 4.01.

start of type **long**

Starting sequence number. See the start attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

type of type **DOMString**

Numbering style. See the type attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLDListElement*

Definition list. See the DL element definition in HTML 4.01.

IDL Definition

```
interface HTMLDListElement : HTMLElement {
    attribute boolean    compact;
};
```

Attributes

compact of type **boolean**

Reduce spacing between list items. See the compact attribute definition in HTML 4.01.

This attribute is deprecated in HTML 4.01.

Interface *HTMLDirectoryElement*

Directory list. See the DIR element definition in HTML 4.01. This element is deprecated in HTML 4.01.

IDL Definition

```
interface HTMLDirectoryElement : HTMLElement {
    attribute boolean    compact;
};
```

Attributes

compact of type **boolean**

Reduce spacing between list items. See the compact attribute definition in HTML 4.01.

This attribute is deprecated in HTML 4.01.

Interface *HTMLMenuElement*

Menu list. See the MENU element definition in HTML 4.01. This element is deprecated in HTML 4.01.

IDL Definition

```
interface HTMLMenuElement : HTMLElement {
    attribute boolean        compact;
};
```

Attributes

compact of type boolean

Reduce spacing between list items. See the compact attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLLIElement*

List item. See the LI element definition in HTML 4.01.

IDL Definition

```
interface HTMLLIElement : HTMLElement {
    attribute DOMString    type;
    attribute long         value;
};
```

Attributes

type of type DOMString

List item bullet style. See the type attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

value of type long

Reset sequence number when used in OL. See the value attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLDivElement*

Generic block container. See the DIV element definition in HTML 4.01.

IDL Definition

```
interface HTMLDivElement : HTMLElement {
    attribute DOMString    align;
};
```

Attributes

align of type DOMString

Horizontal text alignment. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLParagraphElement*

Paragraphs. See the P element definition in HTML 4.01.

IDL Definition

```
interface HTMLParagraphElement : HTMLElement {
    attribute DOMString      align;
};
```

Attributes

align of type DOMString

Horizontal text alignment. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLHeadingElement*

For the H1 to H6 elements. See the H1 element definition in HTML 4.01.

IDL Definition

```
interface HTMLHeadingElement : HTMLElement {
    attribute DOMString      align;
};
```

Attributes

align of type DOMString

Horizontal text alignment. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLQuoteElement*

For the Q and BLOCKQUOTE elements. See the Q element definition in HTML 4.01.

IDL Definition

```
interface HTMLQuoteElement : HTMLElement {
    attribute DOMString      cite;
};
```

Attributes

cite of type DOMString

A URI [IETF RFC 2396] designating a source document or message. See the cite attribute definition in HTML 4.01.

Interface *HTMLPreElement*

Preformatted text. See the PRE element definition in HTML 4.01.

IDL Definition

```
interface HTMLPreElement : HTMLElement {
    attribute long            width;
};
```

Attributes

width of type long

Fixed width for content. See the width attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLBRElement*

Force a line break. See the BR element definition in HTML 4.01.

IDL Definition

```
interface HTMLBRElement : HTMLElement {
    attribute DOMString      clear;
};
```

Attributes

clear of type DOMString

Control flow of text around floats. See the clear attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLBaseFontElement*

Base font. See the BASEFONT element definition in HTML 4.01. This element is deprecated in HTML 4.01.

IDL Definition

```
interface HTMLBaseFontElement : HTMLElement {
    attribute DOMString      color;
    attribute DOMString      face;
    // Modified in DOM Level 2:
    attribute long           size;
};
```

Attributes

color of type DOMString

Font color. See the color attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

face of type DOMString

Font face identifier. See the face attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

size of type long, modified in **DOM Level 2**

Computed font size. See the size attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLFontElement*

Local change to font. See the FONT element definition in HTML 4.01. This element is deprecated in HTML 4.01.

IDL Definition


```
interface HTMLFontElement : HTMLElement {
    attribute DOMString    color;
    attribute DOMString    face;
    attribute DOMString    size;
};
```

Attributes

color of type **DOMString**

Font color. See the color attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

face of type **DOMString**

Font face identifier. See the face attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

size of type **DOMString**

Font size. See the size attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLHRElement*

Create a horizontal rule. See the HR element definition in HTML 4.01.

IDL Definition

```
interface HTMLHRElement : HTMLElement {
    attribute DOMString    align;
    attribute boolean      noShade;
    attribute DOMString    size;
    attribute DOMString    width;
};
```

Attributes

align of type **DOMString**

Align the rule on the page. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

noShade of type **boolean**

Indicates to the user agent that there should be no shading in the rendering of this element. See the noshade attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

size of type **DOMString**

The height of the rule. See the size attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

width of type **DOMString**

The width of the rule. See the width attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLModElement*

Notice of modification to part of a document. See the INS and DEL element definitions in HTML 4.01.

IDL Definition

```
interface HTMLModElement : HTMLElement {
    attribute DOMString    cite;
    attribute DOMString    dateTime;
};
```

Attributes

cite of type **DOMString**

A URI [IETF RFC 2396] designating a document that describes the reason for the change.
See the cite attribute definition in HTML 4.01.

dateTime of type **DOMString**

The date and time of the change. See the datetime attribute definition in HTML 4.01.

Interface *HTMLAnchorElement*

The anchor element. See the A element definition in HTML 4.01.

IDL Definition

```
interface HTMLAnchorElement : HTMLElement {
    attribute DOMString    accessKey;
    attribute DOMString    charset;
    attribute DOMString    coords;
    attribute DOMString    href;
    attribute DOMString    hreflang;
    attribute DOMString    name;
    attribute DOMString    rel;
    attribute DOMString    rev;
    attribute DOMString    shape;
    attribute long          tabIndex;
    attribute DOMString    target;
    attribute DOMString    type;

    void blur();
    void focus();
};
```

Attributes

accessKey of type **DOMString**

A single character access key to give access to the form control. See the accesskey attribute definition in HTML 4.01.

charset of type **DOMString**

The character encoding of the linked resource. See the charset attribute definition in HTML 4.01.

coords of type **DOMString**

Comma-separated list of lengths, defining an active region geometry. See also **shape** for the shape of the region. See the coords attribute definition in HTML 4.01.

href of type **DOMString**

The absolute URI [IETF RFC 2396] of the linked resource. See the href attribute definition in HTML 4.01.

hreflang of type **DOMString**

Language code of the linked resource. See the hreflang attribute definition in HTML 4.01.

name of type **DOMString**

Anchor name. See the name attribute definition in HTML 4.01.

rel of type **DOMString**

Forward link type. See the rel attribute definition in HTML 4.01.

rev of type **DOMString**

Reverse link type. See the rev attribute definition in HTML 4.01.

shape of type **DOMString**

The shape of the active area. The coordinates are given by **coords**. See the shape attribute definition in HTML 4.01.

tabIndex of type **long**

Index that represents the element's position in the tabbing order. See the tabIndex attribute definition in HTML 4.01.

target of type **DOMString**

Frame to render the resource in. See the target attribute definition in HTML 4.01.

type of type **DOMString**

Advisory content type. See the type attribute definition in HTML 4.01.

Methods

blur

Removes keyboard focus from this element.

No Parameters

No Return Value

No Exceptions

focus

Gives keyboard focus to this element.

No Parameters

No Return Value

No Exceptions

Interface *HTMLImageElement*

Embedded image. See the IMG element definition in HTML 4.01.

IDL Definition

```
interface HTMLImageElement : HTMLElement {
    attribute DOMString    name;
    attribute DOMString    align;
    attribute DOMString    alt;
    attribute DOMString    border;
    // Modified in DOM Level 2:
    attribute long         height;
    // Modified in DOM Level 2:
    attribute long         hspace;
    attribute boolean      isMap;
    attribute DOMString    longDesc;
    attribute DOMString    src;
    attribute DOMString    useMap;
    // Modified in DOM Level 2:
```

```

        attribute long          vspace;
// Modified in DOM Level 2:
        attribute long          width;
};

```

Attributes

align of type **DOMString**

Aligns this object (vertically or horizontally) with respect to its surrounding text. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

alt of type **DOMString**

Alternate text for user agents not rendering the normal content of this element. See the alt attribute definition in HTML 4.01.

border of type **DOMString**

Width of border around image. See the border attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01. Note that the type of this attribute was **DOMString** in DOM Level 1 HTML [DOM Level 1].

height of type **long**, modified in **DOM Level 2**

Height of the image in pixels. See the height attribute definition in HTML 4.01. Note that the type of this attribute was **DOMString** in DOM Level 1 HTML [DOM Level 1].

hspace of type **long**, modified in **DOM Level 2**

Horizontal space to the left and right of this image in pixels. See the hspace attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01. Note that the type of this attribute was **DOMString** in DOM Level 1 HTML [DOM Level 1].

isMap of type **boolean**

Use server-side image map. See the ismap attribute definition in HTML 4.01.

longDesc of type **DOMString**

URI [IETF RFC 2396] designating a long description of this image or frame. See the longdesc attribute definition in HTML 4.01.

name of type **DOMString**

The name of the element (for backwards compatibility).

src of type **DOMString**

URI [IETF RFC 2396] designating the source of this image. See the src attribute definition in HTML 4.01.

useMap of type **DOMString**

Use client-side image map. See the usemap attribute definition in HTML 4.01.

vspace of type **long**, modified in **DOM Level 2**

Vertical space above and below this image in pixels. See the vspace attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01. Note that the type of this attribute was "DOMString" in DOM Level 1 HTML [DOM Level 1].

width of type **long**, modified in **DOM Level 2**

The width of the image in pixels. See the width attribute definition in HTML 4.01. Note that the type of this attribute was **DOMString** in DOM Level 1 HTML [DOM Level 1].

Interface *HTMLObjectElement*

Generic embedded object.

Note: In principle, all properties on the object element are read-write but in some environments some properties may be read-only once the underlying object is instantiated. See the OBJECT element definition in [HTML 4.01].

IDL Definition

```
interface HTMLObjectElement : HTMLElement {
  readonly attribute HTMLFormElement form;
  attribute DOMString      code;
  attribute DOMString      align;
  attribute DOMString      archive;
  attribute DOMString      border;
  attribute DOMString      codeBase;
  attribute DOMString      codeType;
  attribute DOMString      data;
  attribute boolean        declare;
  attribute DOMString      height;
  attribute long           hspace;
  attribute DOMString      name;
  attribute DOMString      standby;
  attribute long           tabIndex;
  attribute DOMString      type;
  attribute DOMString      useMap;
  attribute long           vspace;
  attribute DOMString      width;
  // Introduced in DOM Level 2:
  readonly attribute Document      contentDocument;
};
```

Attributes

align of type **DOMString**

Aligns this object (vertically or horizontally) with respect to its surrounding text. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

archive of type **DOMString**

Space-separated list of archives. See the archive attribute definition in HTML 4.01.

border of type **DOMString**

Width of border around the object. See the border attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

code of type **DOMString**

Applet class file. See the code attribute for HTMLAppletElement.

codeBase of type **DOMString**

Base URI [IETF RFC 2396] for **classid**, **data**, and **archive** attributes. See the codebase attribute definition in HTML 4.01.

codeType of type **DOMString**

Content type for data downloaded via **classid** attribute. See the codetype attribute definition in HTML 4.01.

contentDocument of type **Document**, readonly, introduced in **DOM Level 2**

The document this object contains, if there is any and it is available, or **null** otherwise.

data of type **DOMString**

A URI [IETF RFC 2396] specifying the location of the object's data. See the data attribute definition in HTML 4.01.

declare of type `boolean`

Declare (for future reference), but do not instantiate, this object. See the `declare` attribute definition in HTML 4.01.

form of type `HTMLFormElement` [p.25] , `readonly`

Returns the `FORM` element containing this control. Returns `null` if this control is not within the context of a form.

height of type `DOMString`

Override height. See the `height` attribute definition in HTML 4.01.

hspace of type `long`

Horizontal space, in pixels, to the left and right of this image, applet, or object. See the `hspace` attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

name of type `DOMString`

Form control or object name when submitted with a form. See the `name` attribute definition in HTML 4.01.

standby of type `DOMString`

Message to render while loading the object. See the `standby` attribute definition in HTML 4.01.

tabIndex of type `long`

Index that represents the element's position in the tabbing order. See the `tabindex` attribute definition in HTML 4.01.

type of type `DOMString`

Content type for data downloaded via `data` attribute. See the `type` attribute definition in HTML 4.01.

useMap of type `DOMString`

Use client-side image map. See the `usemap` attribute definition in HTML 4.01.

vspace of type `long`

Vertical space, in pixels, above and below this image, applet, or object. See the `vspace` attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

width of type `DOMString`

Override width. See the `width` attribute definition in HTML 4.01.

Interface *HTMLParamElement*

Parameters fed to the `OBJECT` element. See the `PARAM` element definition in HTML 4.01.

IDL Definition

```
interface HTMLParamElement : HTMLElement {
    attribute DOMString    name;
    attribute DOMString    type;
    attribute DOMString    value;
    attribute DOMString    valueType;
};
```

Attributes

name of type `DOMString`

The name of a run-time parameter. See the `name` attribute definition in HTML 4.01.

type of type DOMString

Content type for the `value` attribute when `valueType` has the value "ref". See the type attribute definition in HTML 4.01.

value of type DOMString

The value of a run-time parameter. See the value attribute definition in HTML 4.01.

valueType of type DOMString

Information about the meaning of the `value` attribute value. See the valueType attribute definition in HTML 4.01.

Interface *HTMLAppletElement*

An embedded Java applet. See the APPLET element definition in HTML 4.01. This element is deprecated in HTML 4.01.

IDL Definition

```
interface HTMLAppletElement : HTMLElement {
    attribute DOMString    align;
    attribute DOMString    alt;
    attribute DOMString    archive;
    attribute DOMString    code;
    attribute DOMString    codeBase;
    attribute DOMString    height;
    // Modified in DOM Level 2:
    attribute long         hspace;
    attribute DOMString    name;
    // Modified in DOM Level 2:
    attribute DOMString    object;
    // Modified in DOM Level 2:
    attribute long         vspace;
    attribute DOMString    width;
};
```

Attributes**align of type DOMString**

Aligns this object (vertically or horizontally) with respect to its surrounding text. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

alt of type DOMString

Alternate text for user agents not rendering the normal content of this element. See the alt attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

archive of type DOMString

Comma-separated archive list. See the archive attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

code of type DOMString

Applet class file. See the code attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

codeBase of type DOMString

Optional base URI [IETF RFC 2396] for applet. See the codebase attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

height of type **DOMString**

Override height. See the height attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

hspace of type **long**, modified in **DOM Level 2**

Horizontal space, in pixels, to the left and right of this image, applet, or object. See the hspace attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

name of type **DOMString**

The name of the applet. See the name attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

object of type **DOMString**, modified in **DOM Level 2**

The value of the "object" attribute. See the object attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

vspace of type **long**, modified in **DOM Level 2**

Vertical space, in pixels, above and below this image, applet, or object. See the vspace attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

width of type **DOMString**

Override width. See the width attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLMapElement*

Client-side image map. See the MAP element definition in HTML 4.01.

IDL Definition

```
interface HTMLMapElement : HTMLElement {
    readonly attribute HTMLCollection  areas;
    attribute DOMString                name;
};
```

Attributes

areas of type **HTMLCollection [p.13]**, **readonly**

The list of areas defined for the image map.

name of type **DOMString**

Names the map (for use with usemap). See the name attribute definition in HTML 4.01.

Interface *HTMLAreaElement*

Client-side image map area definition. See the AREA element definition in HTML 4.01.

IDL Definition

```
interface HTMLAreaElement : HTMLElement {
    attribute DOMString    accessKey;
    attribute DOMString    alt;
    attribute DOMString    coords;
    attribute DOMString    href;
    attribute boolean      noHref;
    attribute DOMString    shape;
    attribute long         tabIndex;
    attribute DOMString    target;
};
```


Attributes

accessKey of type **DOMString**

A single character access key to give access to the form control. See the accesskey attribute definition in HTML 4.01.

alt of type **DOMString**

Alternate text for user agents not rendering the normal content of this element. See the alt attribute definition in HTML 4.01.

coords of type **DOMString**

Comma-separated list of lengths, defining an active region geometry. See also **shape** for the shape of the region. See the coords attribute definition in HTML 4.01.

href of type **DOMString**

The URI [IETF RFC 2396] of the linked resource. See the href attribute definition in HTML 4.01.

noHref of type **boolean**

Specifies that this area is inactive, i.e., has no associated action. See the nohref attribute definition in HTML 4.01.

shape of type **DOMString**

The shape of the active area. The coordinates are given by **coords**. See the shape attribute definition in HTML 4.01.

tabIndex of type **long**

Index that represents the element's position in the tabbing order. See the tabindex attribute definition in HTML 4.01.

target of type **DOMString**

Frame to render the resource in. See the target attribute definition in HTML 4.01.

Interface *HTMLScriptElement*

Script statements. See the SCRIPT element definition in HTML 4.01.

IDL Definition

```
interface HTMLScriptElement : HTMLElement {
    attribute DOMString    text;
    attribute DOMString    htmlFor;
    attribute DOMString    event;
    attribute DOMString    charset;
    attribute boolean      defer;
    attribute DOMString    src;
    attribute DOMString    type;
};
```

Attributes

charset of type **DOMString**

The character encoding of the linked resource. See the charset attribute definition in HTML 4.01.

defer of type **boolean**

Indicates that the user agent can defer processing of the script. See the defer attribute definition in HTML 4.01.

event of type DOMString
Reserved for future use.
 htmlFor of type DOMString
Reserved for future use.
 src of type DOMString
 URI [IETF RFC 2396] designating an external script. See the src attribute definition in HTML 4.01.
 text of type DOMString
 The script content of the element.
 type of type DOMString
 The content type of the script language. See the type attribute definition in HTML 4.01.

Interface **HTMLTableElement**

The create* and delete* methods on the table allow authors to construct and modify tables. [HTML 4.01] specifies that only one of each of the CAPTION, THEAD, and TFOOT elements may exist in a table. Therefore, if one exists, and the createTHead() or createTFoot() method is called, the method returns the existing THead or TFoot element. See the TABLE element definition in HTML 4.01.

IDL Definition

```

interface HTMLTableElement : HTMLElement {
  // Modified in DOM Level 2:
    attribute HTMLTableCaptionElement caption;
                                     // raises(DOMException) on setting

  // Modified in DOM Level 2:
    attribute HTMLTableSectionElement tHead;
                                     // raises(DOMException) on setting

  // Modified in DOM Level 2:
    attribute HTMLTableSectionElement tFoot;
                                     // raises(DOMException) on setting

  readonly attribute HTMLCollection rows;
  readonly attribute HTMLCollection tBodies;
    attribute DOMString align;
    attribute DOMString bgColor;
    attribute DOMString border;
    attribute DOMString cellPadding;
    attribute DOMString cellSpacing;
    attribute DOMString frame;
    attribute DOMString rules;
    attribute DOMString summary;
    attribute DOMString width;

  HTMLElement createTHead();
  void deleteTHead();
  HTMLElement createTFoot();
  void deleteTFoot();
  HTMLElement createCaption();
  void deleteCaption();
  // Modified in DOM Level 2:
  HTMLElement insertRow(in long index)
                                     raises(DOMException);

```

```
// Modified in DOM Level 2:
void deleteRow(in long index)
    raises(DOMException);
};
```

Attributes

align of type **DOMString**

Specifies the table's position with respect to the rest of the document. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

bgColor of type **DOMString**

Cell background color. See the bgcolor attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

border of type **DOMString**

The width of the border around the table. See the border attribute definition in HTML 4.01.

caption of type **HTMLTableCaptionElement** [p.53] , modified in **DOM Level 2**

Returns the table's CAPTION, or void if none exists.

Exceptions on setting

DOMException **HIERARCHY_REQUEST_ERR**: if the element is not a CAPTION.

cellPadding of type **DOMString**

Specifies the horizontal and vertical space between cell content and cell borders. See the cellpadding attribute definition in HTML 4.01.

cellSpacing of type **DOMString**

Specifies the horizontal and vertical separation between cells. See the cellspacing attribute definition in HTML 4.01.

frame of type **DOMString**

Specifies which external table borders to render. See the frame attribute definition in HTML 4.01.

rows of type **HTMLCollection** [p.13] , readonly

Returns a collection of all the rows in the table, including all in THEAD, TFOOT, all TBODY elements.

rules of type **DOMString**

Specifies which internal table borders to render. See the rules attribute definition in HTML 4.01.

summary of type **DOMString**

Description about the purpose or structure of a table. See the summary attribute definition in HTML 4.01.

tBodies of type **HTMLCollection** [p.13] , readonly

Returns a collection of the table bodies (including implicit ones).

tFoot of type **HTMLTableSectionElement** [p.54] , modified in **DOM Level 2**

Returns the table's TFOOT, or null if none exists.

Exceptions on setting

DOMException **HIERARCHY_REQUEST_ERR**: if the element is not a TFOOT.

`thead` of type `HTMLTableSectionElement` [p.54] , modified in **DOM Level 2**

Returns the table's `THEAD`, or `null` if none exists.

Exceptions on setting

`DOMException` `HIERARCHY_REQUEST_ERR`: if the element is not a `THEAD`.

`width` of type `DOMString`

Specifies the desired table width. See the `width` attribute definition in HTML 4.01.

Methods

`createCaption`

Create a new table caption object or return an existing one.

Return Value

`HTMLElement` [p.20] A `CAPTION` element.

No Parameters

No Exceptions

`createTfoot`

Create a table footer row or return an existing one.

Return Value

`HTMLElement` [p.20] A footer element (`TFOOT`).

No Parameters

No Exceptions

`createThead`

Create a table header row or return an existing one.

Return Value

`HTMLElement` [p.20] A new table header element (`THEAD`).

No Parameters

No Exceptions

`deleteCaption`

Delete the table caption, if one exists.

No Parameters

No Return Value

No Exceptions

`deleteRow` modified in **DOM Level 2**

Delete a table row.

Parameters

`index` of type `long`

The index of the row to be deleted. This index starts from 0 and is relative to the logical order (not document order) of all the rows contained inside the table. If the

index is -1 the last row in the table is deleted.

Exceptions

DOMException **INDEX_SIZE_ERR**: Raised if the specified index is greater than or equal to the number of rows or if the index is a negative number other than -1.

No Return Value

deleteTFoot

Delete the footer from the table, if one exists.

No Parameters

No Return Value

No Exceptions

deleteTHead

Delete the header from the table, if one exists.

No Parameters

No Return Value

No Exceptions

insertRow modified in **DOM Level 2**

Insert a new empty row in the table. The new row is inserted immediately before and in the same section as the current *index*th row in the table. If *index* is -1 or equal to the number of rows, the new row is appended. In addition, when the table is empty the row is inserted into a **TBODY** which is created and inserted into the table.

Note: A table row cannot be empty according to [HTML 4.01].

Parameters

index of type long

The row number where to insert a new row. This index starts from 0 and is relative to the logical order (not document order) of all the rows contained inside the table.

Return Value

HTMLElement [p.20] The newly created row.

Exceptions

DOMException **INDEX_SIZE_ERR**: Raised if the specified index is greater than the number of rows or if the index is a negative number other than -1.

Interface *HTMLTableCaptionElement*

Table caption See the **CAPTION** element definition in HTML 4.01.

IDL Definition

```
interface HTMLTableCaptionElement : HTMLElement {
    attribute DOMString    align;
};
```

Attributes

align of type `DOMString`

Caption alignment with respect to the table. See the align attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLTableColElement*

Regroups the COL and COLGROUP elements. See the COL element definition in HTML 4.01.

IDL Definition

```
interface HTMLTableColElement : HTMLElement {
    attribute DOMString    align;
    attribute DOMString    ch;
    attribute DOMString    chOff;
    attribute long         span;
    attribute DOMString    vAlign;
    attribute DOMString    width;
};
```

Attributes

align of type `DOMString`

Horizontal alignment of cell data in column. See the align attribute definition in HTML 4.01.

ch of type `DOMString`

Alignment character for cells in a column. See the char attribute definition in HTML 4.01.

chOff of type `DOMString`

Offset of alignment character. See the charoff attribute definition in HTML 4.01.

span of type `long`

Indicates the number of columns in a group or affected by a grouping. See the span attribute definition in HTML 4.01.

vAlign of type `DOMString`

Vertical alignment of cell data in column. See the valign attribute definition in HTML 4.01.

width of type `DOMString`

Default column width. See the width attribute definition in HTML 4.01.

Interface *HTMLTableSectionElement*

The THEAD, TFOOT, and TBODY elements.

IDL Definition

```
interface HTMLTableSectionElement : HTMLElement {
    attribute DOMString    align;
    attribute DOMString    ch;
    attribute DOMString    chOff;
    attribute DOMString    vAlign;
```

```

readonly attribute HTMLCollection rows;
// Modified in DOM Level 2:
HTMLElement      insertRow(in long index)
                                   raises(DOMException);
// Modified in DOM Level 2:
void              deleteRow(in long index)
                                   raises(DOMException);
};

```

Attributes

align of type **DOMString**
Horizontal alignment of data in cells. See the **align** attribute for **HTMLTheadElement** for details.

ch of type **DOMString**
Alignment character for cells in a column. See the **char** attribute definition in HTML 4.01.

chOff of type **DOMString**
Offset of alignment character. See the **charoff** attribute definition in HTML 4.01.

rows of type **HTMLCollection** [p.13] , **readonly**
The collection of rows in this table section.

vAlign of type **DOMString**
Vertical alignment of data in cells. See the **vAlign** attribute for **HTMLTheadElement** for details.

Methods

deleteRow modified in **DOM Level 2**

Delete a row from this section.

Parameters

index of type **long**

The index of the row to be deleted, or -1 to delete the last row. This index starts from 0 and is relative only to the rows contained inside this section, not all the rows in the table.

Exceptions

DOMException	INDEX_SIZE_ERR : Raised if the specified index is greater than or equal to the number of rows or if the index is a negative number other than -1.
---------------------	--

No Return Value

insertRow modified in **DOM Level 2**

Insert a row into this section. The new row is inserted immediately before the current **index**th row in this section. If **index** is -1 or equal to the number of rows in this section, the new row is appended.

Parameters

index of type **long**

The row number where to insert a new row. This index starts from 0 and is relative only to the rows contained inside this section, not all the rows in the table.

Return Value

HTML`Element` [p.20] The newly created row.

Exceptions

DOM`Exception` INDEX_SIZE_ERR: Raised if the specified index is greater than the number of rows of if the index is a negative number other than -1.

Interface *HTMLTableRowElement*

A row in a table. See the TR element definition in HTML 4.01.

IDL Definition

```
interface HTMLTableRowElement : HTMLElement {
    // Modified in DOM Level 2:
    readonly attribute long                rowIndex;
    // Modified in DOM Level 2:
    readonly attribute long                sectionRowIndex;
    // Modified in DOM Level 2:
    readonly attribute HTMLCollection      cells;
    attribute DOMString                    align;
    attribute DOMString                    bgColor;
    attribute DOMString                    ch;
    attribute DOMString                    chOff;
    attribute DOMString                    vAlign;
    // Modified in DOM Level 2:
    HTMLElement                insertCell(in long index)
                                     raises(DOMException);
    // Modified in DOM Level 2:
    void                deleteCell(in long index)
                                     raises(DOMException);
};
```

Attributes

align of type `DOMString`
Horizontal alignment of data within cells of this row. See the align attribute definition in HTML 4.01.

bgColor of type `DOMString`
Background color for rows. See the bgcolor attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

cells of type `HTMLCollection` [p.13], readonly, modified in **DOM Level 2**
The collection of cells in this row.

ch of type `DOMString`
Alignment character for cells in a column. See the char attribute definition in HTML 4.01.

chOff of type `DOMString`
Offset of alignment character. See the charoff attribute definition in HTML 4.01.

rowIndex of type `long`, readonly, modified in **DOM Level 2**
This is in logical order and not in document order. The `rowIndex` does take into account sections (THEAD, TFOOT, or TBODY) within the table, placing THEAD rows first in the

index, followed by **TBODY** rows, followed by **TFOOT** rows.

sectionRowIndex of type **long**, readonly, modified in **DOM Level 2**

The index of this row, relative to the current section (**THEAD**, **TFOOT**, or **TBODY**), starting from 0.

vAlign of type **DOMString**

Vertical alignment of data within cells of this row. See the **vAlign** attribute definition in HTML 4.01.

Methods

deleteCell modified in **DOM Level 2**

Delete a cell from the current row.

Parameters

index of type **long**

The index of the cell to delete, starting from 0. If the index is -1 the last cell in the row is deleted.

Exceptions

DOMException **INDEX_SIZE_ERR**: Raised if the specified **index** is greater than or equal to the number of cells or if the index is a negative number other than -1.

No Return Value

insertCell modified in **DOM Level 2**

Insert an empty **TD** cell into this row. If **index** is -1 or equal to the number of cells, the new cell is appended.

Parameters

index of type **long**

The place to insert the cell, starting from 0.

Return Value

HTMLElement [p.20] The newly created cell.

Exceptions

DOMException **INDEX_SIZE_ERR**: Raised if the specified **index** is greater than the number of cells or if the index is a negative number other than -1.

Interface *HTMLTableCellElement*

The object used to represent the **TH** and **TD** elements. See the **TD** element definition in HTML 4.01.

IDL Definition

```

interface HTMLTableCellElement : HTMLElement {
    readonly attribute long        cellIndex;
    attribute DOMString            abbr;
    attribute DOMString            align;
    attribute DOMString            axis;
    attribute DOMString            bgColor;
    attribute DOMString            ch;
    attribute DOMString            chOff;
    attribute long                 colSpan;
    attribute DOMString            headers;
    attribute DOMString            height;
    attribute boolean              noWrap;
    attribute long                 rowSpan;
    attribute DOMString            scope;
    attribute DOMString            vAlign;
    attribute DOMString            width;
};

```

Attributes

abbr of type **DOMString**

Abbreviation for header cells. See the abbr attribute definition in HTML 4.01.

align of type **DOMString**

Horizontal alignment of data in cell. See the align attribute definition in HTML 4.01.

axis of type **DOMString**

Names group of related headers. See the axis attribute definition in HTML 4.01.

bgColor of type **DOMString**

Cell background color. See the bgcolor attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

cellIndex of type **long**, **readonly**

The index of this cell in the row, starting from 0. This index is in document tree order and not display order.

ch of type **DOMString**

Alignment character for cells in a column. See the char attribute definition in HTML 4.01.

chOff of type **DOMString**

Offset of alignment character. See the charoff attribute definition in HTML 4.01.

colSpan of type **long**

Number of columns spanned by cell. See the colspan attribute definition in HTML 4.01.

headers of type **DOMString**

List of **id** attribute values for header cells. See the headers attribute definition in HTML 4.01.

height of type **DOMString**

Cell height. See the height attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

noWrap of type **boolean**

Suppress word wrapping. See the nowrap attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

rowSpan of type **long**

Number of rows spanned by cell. See the rowspan attribute definition in HTML 4.01.

scope of type DOMString

Scope covered by header cells. See the scope attribute definition in HTML 4.01.

vAlign of type DOMString

Vertical alignment of data in cell. See the valign attribute definition in HTML 4.01.

width of type DOMString

Cell width. See the width attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

Interface *HTMLFrameSetElement*

Create a grid of frames. See the FRAMESET element definition in HTML 4.01.

IDL Definition

```
interface HTMLFrameSetElement : HTMLElement {
    attribute DOMString    cols;
    attribute DOMString    rows;
};
```

Attributes

cols of type DOMString

The number of columns of frames in the frameset. See the cols attribute definition in HTML 4.01.

rows of type DOMString

The number of rows of frames in the frameset. See the rows attribute definition in HTML 4.01.

Interface *HTMLFrameElement*

Create a frame. See the FRAME element definition in HTML 4.01.

IDL Definition

```
interface HTMLFrameElement : HTMLElement {
    attribute DOMString    frameBorder;
    attribute DOMString    longDesc;
    attribute DOMString    marginHeight;
    attribute DOMString    marginWidth;
    attribute DOMString    name;
    attribute boolean      noResize;
    attribute DOMString    scrolling;
    attribute DOMString    src;
    // Introduced in DOM Level 2:
    readonly attribute Document    contentDocument;
};
```

Attributes

contentDocument of type Document, readonly, introduced in **DOM Level 2**

The document this frame contains, if there is any and it is available, or null otherwise.

frameBorder of type DOMString

Request frame borders. See the frameborder attribute definition in HTML 4.01.

longDesc of type **DOMString**

URI [IETF RFC 2396] designating a long description of this image or frame. See the **longdesc** attribute definition in HTML 4.01.

marginHeight of type **DOMString**

Frame margin height, in pixels. See the **marginheight** attribute definition in HTML 4.01.

marginWidth of type **DOMString**

Frame margin width, in pixels. See the **marginwidth** attribute definition in HTML 4.01.

name of type **DOMString**

The frame name (object of the **target** attribute). See the **name** attribute definition in HTML 4.01.

noResize of type **boolean**

When true, forbid user from resizing frame. See the **noresize** attribute definition in HTML 4.01.

scrolling of type **DOMString**

Specify whether or not the frame should have scrollbars. See the **scrolling** attribute definition in HTML 4.01.

src of type **DOMString**

A URI [IETF RFC 2396] designating the initial frame contents. See the **src** attribute definition in HTML 4.01.

Interface *HTMLIFrameElement*

Inline subwindows. See the **IFRAME** element definition in HTML 4.01.

IDL Definition

```
interface HTMLIFrameElement : HTMLElement {
    attribute DOMString    align;
    attribute DOMString    frameBorder;
    attribute DOMString    height;
    attribute DOMString    longDesc;
    attribute DOMString    marginHeight;
    attribute DOMString    marginWidth;
    attribute DOMString    name;
    attribute DOMString    scrolling;
    attribute DOMString    src;
    attribute DOMString    width;
    // Introduced in DOM Level 2:
    readonly attribute Document    contentDocument;
};
```

Attributes

align of type **DOMString**

Aligns this object (vertically or horizontally) with respect to its surrounding text. See the **align** attribute definition in HTML 4.01. This attribute is deprecated in HTML 4.01.

contentDocument of type **Document**, readonly, introduced in **DOM Level 2**

The document this frame contains, if there is any and it is available, or **null** otherwise.

frameBorder of type **DOMString**

Request frame borders. See the **frameborder** attribute definition in HTML 4.01.

height of type **DOMString**

Frame height. See the height attribute definition in HTML 4.01.

longDesc of type **DOMString**

URI [IETF RFC 2396] designating a long description of this image or frame. See the longdesc attribute definition in HTML 4.01.

marginHeight of type **DOMString**

Frame margin height, in pixels. See the marginheight attribute definition in HTML 4.01.

marginWidth of type **DOMString**

Frame margin width, in pixels. See the marginwidth attribute definition in HTML 4.01.

name of type **DOMString**

The frame name (object of the **target** attribute). See the name attribute definition in HTML 4.01.

scrolling of type **DOMString**

Specify whether or not the frame should have scrollbars. See the scrolling attribute definition in HTML 4.01.

src of type **DOMString**

A URI [IETF RFC 2396] designating the initial frame contents. See the src attribute definition in HTML 4.01.

width of type **DOMString**

Frame width. See the width attribute definition in HTML 4.01.

1.6.5. Object definitions

Appendix A: Changes

Editor:

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A.1: Changes between DOM Level 1 and DOM Level 2

Note: The DOM Level 2 HTML module is not backward compatible with the DOM Level 1 HTML module.

OMG IDL

The DOM Level 2 specifications use CORBA 2.3.1 instead of CORBA 2.2.

XHTML 1.0 support

The DOM Level 2 HTML module supports HTML 4 as well as XHTML 1.0 documents. Therefore, case sensitivity in methods depends on `Document` support for the feature "XML" as well as "HTML".

A.1.1: Changes to DOM Level 1 interfaces and exceptions

Interface `HTMLDocument` [p.15]

the method `getElementById` is now inherited from the `Document` interface [DOM Level 2 Core] where it was moved.

Interface `HTMLSelectElement` [p.26]

The type of the attribute `options` was changed from `HTMLCollection` [p.13] to `HTMLOptionsCollection` [p.14].

The attribute `length` is no longer readonly and is now unsigned.

Interface `HTMLOptionElement` [p.29]

Changing the `defaultSelected` attribute does not reset the state of the form control. `index` is readonly.

Interface `HTMLInputElement` [p.30]

the attribute `type` is no longer read only.

The type of the attribute `size` was changed from `DOMString` to unsigned `long`.

Interface `HTMLTextAreaElement` [p.33]

Changing the `defaultValue` attribute does not reset the contents of the form control.

Interface `HTMLBlockquoteElement`

this interface has been removed. `BLOCKQUOTE` elements are now supported by the `HTMLQuoteElement` [p.39] interface.

Interface `HTMLBaseFontElement` [p.40]

The attribute `size` is of type `long`.

Interface `HTMLImageElement` [p.43]

The `lowSrc` attribute was removed.

The types of the attributes `height`, `hspace`, `width` and `vspace` were changed from `DOMString` to `long`.

Interface `HTMLObjectElement` [p.44]

The attribute `contentDocument` was added.

Interface HTMLAppletElement [p.47]

The types of the attributes `hspace` and `vspace` were changed from `DOMString` to `long`.

The attribute `object` returns the value of the HTML object attribute.

Interface HTMLTableElement [p.50]

`caption`, `tHead`, `tFoot`, `insertRow`, and `deleteRow` may raise exceptions.

`index` uses a logical order, and not a document order.

Interface HTMLTableSectionElement [p.54]

The methods `insertRow` and `deleteRow` may raise exceptions.

Interface HTMLTableRowElement [p.56]

The attributes `rowIndex`, `sectionRowIndex`, and `cells` are readonly.

The methods `insertCell` and `deleteCell` may raise exceptions.

`rowIndex` uses a logical order, and not a document order.

Interface HTMLFrameElement [p.59]

the attribute `contentDocument` was added.

Interface HTMLIFrameElement [p.60]

the attribute `contentDocument` was added.

Module and package name

The module name used in the OMG IDL is now `html2`.

The package name used in the Java bindings is now `org.w3c.dom.html2`.

A.1.2: New Interfaces

Interface HTMLOptionsCollection [p.14]

The `HTMLOptionsCollection [p.14]` interface was added to the HTML module.

Appendix B: IDL Definitions

This appendix contains the complete OMG IDL [OMG IDL] for the Level 2 Document Object Model HTML definitions.

Unfortunately the OMG IDL in this appendix is not conformant due to problems in the validator that was used to validate Level 1. The `readOnly` attribute on the `HTMLInputElement` [p.30] and `HTMLTextAreaElement` [p.33] interfaces, as well as the `object` attribute on the `HTMLAppletElement` [p.47] interface, are not conformant with OMG IDL 2.2. The `valueType` attribute on the `HTMLParamElement` [p.46] interface is not conformant with OMG IDL 2.3.1, which hadn't been released when DOM Level 1 [DOM Level 1] was published.

The IDL files are also available as:

<http://www.w3.org/TR/2003/REC-DOM-Level-2-HTML-20030109/idl.zip>

html2.idl:

```
// File: html2.idl

#ifndef _HTML2_IDL_
#define _HTML2_IDL_

#include "dom.idl"

#pragma prefix "dom.w3c.org"
module html2
{

    typedef dom::DOMString DOMString;
    typedef dom::Node Node;
    typedef dom::Document Document;
    typedef dom::NodeList NodeList;
    typedef dom::Element Element;

    interface HTMLElement;
    interface HTMLFormElement;
    interface HTMLTableCaptionElement;
    interface HTMLTableSectionElement;

    interface HTMLCollection {
        readonly attribute unsigned long    length;
        Node                                item(in unsigned long index);
        Node                                namedItem(in DOMString name);
    };

    // Introduced in DOM Level 2:
    interface HTMLOptionsCollection {
        attribute unsigned long    length;
                                   // raises(dom::DOMException) on setting

        Node                                item(in unsigned long index);
        Node                                namedItem(in DOMString name);
    };
};
```

```

interface HTMLDocument : Document {
    attribute DOMString      title;
    readonly attribute DOMString referrer;
    readonly attribute DOMString domain;
    readonly attribute DOMString URL;
    attribute HTMLElement    body;
    readonly attribute HTMLCollection images;
    readonly attribute HTMLCollection applets;
    readonly attribute HTMLCollection links;
    readonly attribute HTMLCollection forms;
    readonly attribute HTMLCollection anchors;
    attribute DOMString      cookie;
                                // raises(dom::DOMException) on setting

    void      open();
    void      close();
    void      write(in DOMString text);
    void      writeln(in DOMString text);
    NodeList  getElementsByName(in DOMString elementName);
};

interface HTMLElement : Element {
    attribute DOMString      id;
    attribute DOMString      title;
    attribute DOMString      lang;
    attribute DOMString      dir;
    attribute DOMString      className;
};

interface HTMLHtmlElement : HTMLElement {
    attribute DOMString      version;
};

interface HTMLHeadElement : HTMLElement {
    attribute DOMString      profile;
};

interface HTMLLinkElement : HTMLElement {
    attribute boolean        disabled;
    attribute DOMString      charset;
    attribute DOMString      href;
    attribute DOMString      hreflang;
    attribute DOMString      media;
    attribute DOMString      rel;
    attribute DOMString      rev;
    attribute DOMString      target;
    attribute DOMString      type;
};

interface HTMLTitleElement : HTMLElement {
    attribute DOMString      text;
};

interface HTMLMetaElement : HTMLElement {
    attribute DOMString      content;
    attribute DOMString      httpEquiv;
};

```

```

        attribute DOMString      name;
        attribute DOMString      scheme;
};

interface HTMLBaseElement : HTMLElement {
        attribute DOMString      href;
        attribute DOMString      target;
};

interface HTMLIsIndexElement : HTMLElement {
        readonly attribute HTMLFormElement form;
        attribute DOMString      prompt;
};

interface HTMLStyleElement : HTMLElement {
        attribute boolean        disabled;
        attribute DOMString      media;
        attribute DOMString      type;
};

interface HTMLBodyElement : HTMLElement {
        attribute DOMString      aLink;
        attribute DOMString      background;
        attribute DOMString      bgColor;
        attribute DOMString      link;
        attribute DOMString      text;
        attribute DOMString      vLink;
};

interface HTMLFormElement : HTMLElement {
        readonly attribute HTMLCollection elements;
        readonly attribute long   length;
        attribute DOMString      name;
        attribute DOMString      acceptCharset;
        attribute DOMString      action;
        attribute DOMString      enctype;
        attribute DOMString      method;
        attribute DOMString      target;

        void submit();
        void reset();
};

interface HTMLSelectElement : HTMLElement {
        readonly attribute DOMString type;
        attribute long      selectedIndex;
        attribute DOMString value;
        // Modified in DOM Level 2:
        attribute unsigned long length;
                                // raises(dom::DOMException) on setting

        readonly attribute HTMLFormElement form;
        // Modified in DOM Level 2:
        readonly attribute HTMLOptionsCollection options;
        attribute boolean      disabled;
        attribute boolean      multiple;
        attribute DOMString      name;
        attribute long          size;
};

```

```

        attribute long        tabIndex;
void        add(in HTMLElement element,
               in HTMLElement before)
               raises(dom::DOMException);

void        remove(in long index);
void        blur();
void        focus();
};

interface HTMLOptGroupElement : HTMLElement {
    attribute boolean        disabled;
    attribute DOMString      label;
};

interface HTMLOptionElement : HTMLElement {
    readonly attribute HTMLElement form;
    // Modified in DOM Level 2:
    attribute boolean        defaultSelected;
    readonly attribute DOMString      text;
    // Modified in DOM Level 2:
    readonly attribute long        index;
    attribute boolean        disabled;
    attribute DOMString      label;
    attribute boolean        selected;
    attribute DOMString      value;
};

interface HTMLInputElement : HTMLElement {
    attribute DOMString      defaultValue;
    attribute boolean        defaultChecked;
    readonly attribute HTMLElement form;
    attribute DOMString      accept;
    attribute DOMString      accessKey;
    attribute DOMString      align;
    attribute DOMString      alt;
    attribute boolean        checked;
    attribute boolean        disabled;
    attribute long        maxLength;
    attribute DOMString      name;
    attribute boolean        readOnly;
    // Modified in DOM Level 2:
    attribute unsigned long    size;
    attribute DOMString      src;
    attribute long        tabIndex;
    // Modified in DOM Level 2:
    attribute DOMString      type;
    attribute DOMString      useMap;
    attribute DOMString      value;
    void        blur();
    void        focus();
    void        select();
    void        click();
};

interface HTMLTextAreaElement : HTMLElement {
    // Modified in DOM Level 2:
    attribute DOMString      defaultValue;

```

```

    readonly attribute HTMLFormElement form;
        attribute DOMString      accessKey;
        attribute long            cols;
        attribute boolean         disabled;
        attribute DOMString       name;
        attribute boolean         readOnly;
        attribute long            rows;
        attribute long            tabIndex;
    readonly attribute DOMString  type;
        attribute DOMString       value;
    void          blur();
    void          focus();
    void          select();
};

interface HTMLButtonElement : HTMLElement {
    readonly attribute HTMLFormElement form;
        attribute DOMString      accessKey;
        attribute boolean         disabled;
        attribute DOMString       name;
        attribute long            tabIndex;
    readonly attribute DOMString  type;
        attribute DOMString       value;
};

interface HTMLLabelElement : HTMLElement {
    readonly attribute HTMLFormElement form;
        attribute DOMString      accessKey;
        attribute DOMString       htmlFor;
};

interface HTMLFieldSetElement : HTMLElement {
    readonly attribute HTMLFormElement form;
};

interface HTMLLegendElement : HTMLElement {
    readonly attribute HTMLFormElement form;
        attribute DOMString      accessKey;
        attribute DOMString       align;
};

interface HTMLUListElement : HTMLElement {
        attribute boolean         compact;
        attribute DOMString       type;
};

interface HTMLOLListElement : HTMLElement {
        attribute boolean         compact;
        attribute long            start;
        attribute DOMString       type;
};

interface HTMLDListElement : HTMLElement {
        attribute boolean         compact;
};

interface HTMLDirectoryElement : HTMLElement {

```

```

        attribute boolean        compact;
};

interface HTMLMenuElement : HTMLElement {
    attribute boolean        compact;
};

interface HTMLLIElement : HTMLElement {
    attribute DOMString      type;
    attribute long           value;
};

interface HTMLDivElement : HTMLElement {
    attribute DOMString      align;
};

interface HTMLParagraphElement : HTMLElement {
    attribute DOMString      align;
};

interface HTMLHeadingElement : HTMLElement {
    attribute DOMString      align;
};

interface HTMLQuoteElement : HTMLElement {
    attribute DOMString      cite;
};

interface HTMLPreElement : HTMLElement {
    attribute long           width;
};

interface HTMLBRElement : HTMLElement {
    attribute DOMString      clear;
};

interface HTMLBaseFontElement : HTMLElement {
    attribute DOMString      color;
    attribute DOMString      face;
    // Modified in DOM Level 2:
    attribute long           size;
};

interface HTMLFontElement : HTMLElement {
    attribute DOMString      color;
    attribute DOMString      face;
    attribute DOMString      size;
};

interface HTMLHRElement : HTMLElement {
    attribute DOMString      align;
    attribute boolean        noShade;
    attribute DOMString      size;
    attribute DOMString      width;
};

interface HTMLModElement : HTMLElement {

```

```

        attribute DOMString      cite;
        attribute DOMString      dateTime;
};

interface HTMLAnchorElement : HTMLElement {
    attribute DOMString      accessKey;
    attribute DOMString      charset;
    attribute DOMString      coords;
    attribute DOMString      href;
    attribute DOMString      hreflang;
    attribute DOMString      name;
    attribute DOMString      rel;
    attribute DOMString      rev;
    attribute DOMString      shape;
    attribute long           tabIndex;
    attribute DOMString      target;
    attribute DOMString      type;

    void      blur();
    void      focus();
};

interface HTMLImageElement : HTMLElement {
    attribute DOMString      name;
    attribute DOMString      align;
    attribute DOMString      alt;
    attribute DOMString      border;
    // Modified in DOM Level 2:
    attribute long           height;
    // Modified in DOM Level 2:
    attribute long           hspace;
    attribute boolean        isMap;
    attribute DOMString      longDesc;
    attribute DOMString      src;
    attribute DOMString      useMap;
    // Modified in DOM Level 2:
    attribute long           vspace;
    // Modified in DOM Level 2:
    attribute long           width;
};

interface HTMLObjectElement : HTMLElement {
    readonly attribute HTMLFormElement form;
    attribute DOMString      code;
    attribute DOMString      align;
    attribute DOMString      archive;
    attribute DOMString      border;
    attribute DOMString      codeBase;
    attribute DOMString      codeType;
    attribute DOMString      data;
    attribute boolean        declare;
    attribute DOMString      height;
    attribute long           hspace;
    attribute DOMString      name;
    attribute DOMString      standby;
    attribute long           tabIndex;
    attribute DOMString      type;
    attribute DOMString      useMap;
};

```

```

        attribute long          vspace;
        attribute DOMString     width;
    // Introduced in DOM Level 2:
    readonly attribute Document  contentDocument;
};

```

```

interface HTMLParamElement : HTMLElement {
    attribute DOMString     name;
    attribute DOMString     type;
    attribute DOMString     value;
    attribute DOMString     valueType;
};

```

```

interface HTMLAppletElement : HTMLElement {
    attribute DOMString     align;
    attribute DOMString     alt;
    attribute DOMString     archive;
    attribute DOMString     code;
    attribute DOMString     codeBase;
    attribute DOMString     height;
    // Modified in DOM Level 2:
    attribute long          hspace;
    attribute DOMString     name;
    // Modified in DOM Level 2:
    attribute DOMString     object;
    // Modified in DOM Level 2:
    attribute long          vspace;
    attribute DOMString     width;
};

```

```

interface HTMLMapElement : HTMLElement {
    readonly attribute HTMLCollection areas;
    attribute DOMString     name;
};

```

```

interface HTMLAreaElement : HTMLElement {
    attribute DOMString     accessKey;
    attribute DOMString     alt;
    attribute DOMString     coords;
    attribute DOMString     href;
    attribute boolean       noHref;
    attribute DOMString     shape;
    attribute long          tabIndex;
    attribute DOMString     target;
};

```

```

interface HTMLScriptElement : HTMLElement {
    attribute DOMString     text;
    attribute DOMString     htmlFor;
    attribute DOMString     event;
    attribute DOMString     charset;
    attribute boolean       defer;
    attribute DOMString     src;
    attribute DOMString     type;
};

```

```

interface HTMLTableElement : HTMLElement {

```



```

// Modified in DOM Level 2:
    attribute HTMLTableCaptionElement caption;
                                // raises(dom::DOMException) on setting

// Modified in DOM Level 2:
    attribute HTMLTableSectionElement tHead;
                                // raises(dom::DOMException) on setting

// Modified in DOM Level 2:
    attribute HTMLTableSectionElement tFoot;
                                // raises(dom::DOMException) on setting

readonly attribute HTMLCollection rows;
readonly attribute HTMLCollection tBodies;
    attribute DOMString align;
    attribute DOMString bgColor;
    attribute DOMString border;
    attribute DOMString cellPadding;
    attribute DOMString cellSpacing;
    attribute DOMString frame;
    attribute DOMString rules;
    attribute DOMString summary;
    attribute DOMString width;
HTMLElement createTHead();
void deleteTHead();
HTMLElement createTFoot();
void deleteTFoot();
HTMLElement createCaption();
void deleteCaption();
// Modified in DOM Level 2:
HTMLElement insertRow(in long index)
                                raises(dom::DOMException);

// Modified in DOM Level 2:
void deleteRow(in long index)
                                raises(dom::DOMException);
};

interface HTMLTableCaptionElement : HTMLElement {
    attribute DOMString align;
};

interface HTMLTableColElement : HTMLElement {
    attribute DOMString align;
    attribute DOMString ch;
    attribute DOMString chOff;
    attribute long span;
    attribute DOMString vAlign;
    attribute DOMString width;
};

interface HTMLTableSectionElement : HTMLElement {
    attribute DOMString align;
    attribute DOMString ch;
    attribute DOMString chOff;
    attribute DOMString vAlign;
    readonly attribute HTMLCollection rows;
// Modified in DOM Level 2:

```

```

HTMLInputElement      insertRow(in long index)
                        raises(dom::DOMException);
// Modified in DOM Level 2:
void                  deleteRow(in long index)
                        raises(dom::DOMException);
};

interface HTMLTableRowElement : HTMLInputElement {
    // Modified in DOM Level 2:
    readonly attribute long          rowIndex;
    // Modified in DOM Level 2:
    readonly attribute long          sectionRowIndex;
    // Modified in DOM Level 2:
    readonly attribute HTMLCollection cells;
    attribute DOMString             align;
    attribute DOMString             bgColor;
    attribute DOMString             ch;
    attribute DOMString             chOff;
    attribute DOMString             vAlign;
    // Modified in DOM Level 2:
    HTMLInputElement              insertCell(in long index)
                                    raises(dom::DOMException);
    // Modified in DOM Level 2:
    void                          deleteCell(in long index)
                                    raises(dom::DOMException);
};

interface HTMLTableCellElement : HTMLInputElement {
    readonly attribute long          cellIndex;
    attribute DOMString             abbr;
    attribute DOMString             align;
    attribute DOMString             axis;
    attribute DOMString             bgColor;
    attribute DOMString             ch;
    attribute DOMString             chOff;
    attribute long                  colSpan;
    attribute DOMString             headers;
    attribute DOMString             height;
    attribute boolean               noWrap;
    attribute long                  rowSpan;
    attribute DOMString             scope;
    attribute DOMString             vAlign;
    attribute DOMString             width;
};

interface HTMLFrameSetElement : HTMLInputElement {
    attribute DOMString             cols;
    attribute DOMString             rows;
};

interface HTMLFrameElement : HTMLInputElement {
    attribute DOMString             frameBorder;
    attribute DOMString             longDesc;
    attribute DOMString             marginHeight;
    attribute DOMString             marginWidth;
    attribute DOMString             name;
    attribute boolean               noResize;
};

```

html2.idl:

```
        attribute DOMString      scrolling;
        attribute DOMString      src;
    // Introduced in DOM Level 2:
    readonly attribute Document   contentDocument;
};

interface HTMLIFrameElement : HTMLElement {
    attribute DOMString          align;
    attribute DOMString          frameBorder;
    attribute DOMString          height;
    attribute DOMString          longDesc;
    attribute DOMString          marginHeight;
    attribute DOMString          marginWidth;
    attribute DOMString          name;
    attribute DOMString          scrolling;
    attribute DOMString          src;
    attribute DOMString          width;
    // Introduced in DOM Level 2:
    readonly attribute Document   contentDocument;
};

#endif // _HTML2_IDL_
```

html2.idl:

Appendix C: Java language Binding

This appendix contains the complete Java language [Java] binding for the Level 2 Document Object Model HTML.

The Java files are also available as

<http://www.w3.org/TR/2003/REC-DOM-Level-2-HTML-20030109/java-binding.zip>

org/w3c/dom/html2/HTMLCollection.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Node;

public interface HTMLCollection {
    public int getLength();

    public Node item(int index);

    public Node namedItem(String name);
}
```

org/w3c/dom/html2/HTMLOptionsCollection.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Node;
import org.w3c.dom.DOMException;

public interface HTMLOptionsCollection {
    public int getLength();
    public void setLength(int length)
        throws DOMException;

    public Node item(int index);

    public Node namedItem(String name);
}
```

org/w3c/dom/html2/HTMLDocument.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Document;
import org.w3c.dom.NodeList;
import org.w3c.dom.DOMException;

public interface HTMLDocument extends Document {
    public String getTitle();
    public void setTitle(String title);
}
```

```
public String getReferrer();

public String getDomain();

public String getURL();

public HTMLElement getBody();
public void setBody(HTMLElement body);

public HTMLCollection getImages();

public HTMLCollection getApplets();

public HTMLCollection getLinks();

public HTMLCollection getForms();

public HTMLCollection getAnchors();

public String getCookie();
public void setCookie(String cookie)
    throws DOMException;

public void open();

public void close();

public void write(String text);

public void writeln(String text);

public NodeList getElementsByTagName(String elementName);
}
```

org/w3c/dom/html2/HTMLElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Element;

public interface HTMLElement extends Element {
    public String getId();
    public void setId(String id);

    public String getTitle();
    public void setTitle(String title);

    public String getLang();
    public void setLang(String lang);

    public String getDir();
    public void setDir(String dir);
}
```

```
    public String getClassName();
    public void setClassName(String className);
}
```

org/w3c/dom/html2/HTMLHtmlElement.java:

```
package org.w3c.dom.html2;

public interface HTMLHtmlElement extends HTMLElement {
    public String getVersion();
    public void setVersion(String version);
}
```

org/w3c/dom/html2/HTMLHeadElement.java:

```
package org.w3c.dom.html2;

public interface HTMLHeadElement extends HTMLElement {
    public String getProfile();
    public void setProfile(String profile);
}
```

org/w3c/dom/html2/HTMLLinkElement.java:

```
package org.w3c.dom.html2;

public interface HTMLLinkElement extends HTMLElement {
    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public String getCharset();
    public void setCharset(String charset);

    public String getHref();
    public void setHref(String href);

    public String getHreflang();
    public void setHreflang(String hreflang);

    public String getMedia();
    public void setMedia(String media);

    public String getRel();
    public void setRel(String rel);

    public String getRev();
    public void setRev(String rev);

    public String getTarget();
    public void setTarget(String target);
}
```

```
    public String getType();
    public void setType(String type);
}
```

org/w3c/dom/html2/HTMLTitleElement.java:

```
package org.w3c.dom.html2;

public interface HTMLTitleElement extends HTMLElement {
    public String getText();
    public void setText(String text);
}
```

org/w3c/dom/html2/HTMLMetaElement.java:

```
package org.w3c.dom.html2;

public interface HTMLMetaElement extends HTMLElement {
    public String getContent();
    public void setContent(String content);

    public String getHttpEquiv();
    public void setHttpEquiv(String httpEquiv);

    public String getName();
    public void setName(String name);

    public String getScheme();
    public void setScheme(String scheme);
}
```

org/w3c/dom/html2/HTMLBaseElement.java:

```
package org.w3c.dom.html2;

public interface HTMLBaseElement extends HTMLElement {
    public String getHref();
    public void setHref(String href);

    public String getTarget();
    public void setTarget(String target);
}
```

org/w3c/dom/html2/HTMLIsIndexElement.java:

```
package org.w3c.dom.html2;

public interface HTMLIsIndexElement extends HTMLElement {
    public HTMLFormElement getForm();
}
```



```
    public String getPrompt();
    public void setPrompt(String prompt);
}
```

org/w3c/dom/html2/HTMLStyleElement.java:

```
package org.w3c.dom.html2;

public interface HTMLStyleElement extends HTMLElement {
    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public String getMedia();
    public void setMedia(String media);

    public String getType();
    public void setType(String type);
}
```

org/w3c/dom/html2/HTMLBodyElement.java:

```
package org.w3c.dom.html2;

public interface HTMLBodyElement extends HTMLElement {
    public String getALink();
    public void setALink(String aLink);

    public String getBackground();
    public void setBackground(String background);

    public String getBgColor();
    public void setBgColor(String bgColor);

    public String getLink();
    public void setLink(String link);

    public String getText();
    public void setText(String text);

    public String getVLink();
    public void setVLink(String vLink);
}
```

org/w3c/dom/html2/HTMLFormElement.java:

```
package org.w3c.dom.html2;

public interface HTMLFormElement extends HTMLElement {
    public HTMLCollection getElements();

    public int getLength();
}
```

```
public String getName();
public void setName(String name);

public String getAcceptCharset();
public void setAcceptCharset(String acceptCharset);

public String getAction();
public void setAction(String action);

public String getEnctype();
public void setEnctype(String enctype);

public String getMethod();
public void setMethod(String method);

public String getTarget();
public void setTarget(String target);

public void submit();

public void reset();
}
```

org/w3c/dom/html2/HTMLSelectElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.DOMException;

public interface HTMLSelectElement extends HTMLElement {
    public String getType();

    public int getSelectedIndex();
    public void setSelectedIndex(int selectedIndex);

    public String getValue();
    public void setValue(String value);

    public int getLength();
    public void setLength(int length)
        throws DOMException;

    public HTMLFormElement getForm();

    public HTMLOptionsCollection getOptions();

    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public boolean getMultiple();
    public void setMultiple(boolean multiple);

    public String getName();
    public void setName(String name);
}
```

```
public int getSize();
public void setSize(int size);

public int getTabIndex();
public void setTabIndex(int tabIndex);

public void add(HTMLElement element,
               HTMLElement before)
               throws DOMException;

public void remove(int index);

public void blur();

public void focus();
}
```

org/w3c/dom/html2/HTMLOptGroupElement.java:

```
package org.w3c.dom.html2;

public interface HTMLOptGroupElement extends HTMLElement {
    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public String getLabel();
    public void setLabel(String label);
}
```

org/w3c/dom/html2/HTMLOptionElement.java:

```
package org.w3c.dom.html2;

public interface HTMLOptionElement extends HTMLElement {
    public HTMLFormElement getForm();

    public boolean getDefaultSelected();
    public void setDefaultSelected(boolean defaultSelected);

    public String getText();

    public int getIndex();

    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public String getLabel();
    public void setLabel(String label);

    public boolean getSelected();
    public void setSelected(boolean selected);
}
```

```

    public String getValue();
    public void setValue(String value);
}

```

org/w3c/dom/html2/HTMLInputElement.java:

```

package org.w3c.dom.html2;

public interface HTMLInputElement extends HTMLElement {
    public String getDefaultValue();
    public void setDefaultValue(String defaultValue);

    public boolean getDefaultValueChecked();
    public void setDefaultValueChecked(boolean defaultValueChecked);

    public HTMLFormElement getForm();

    public String getAccept();
    public void setAccept(String accept);

    public String getAccessKey();
    public void setAccessKey(String accessKey);

    public String getAlign();
    public void setAlign(String align);

    public String getAlt();
    public void setAlt(String alt);

    public boolean getChecked();
    public void setChecked(boolean checked);

    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public int getMaxLength();
    public void setMaxLength(int maxLength);

    public String getName();
    public void setName(String name);

    public boolean getReadOnly();
    public void setReadOnly(boolean readOnly);

    public int getSize();
    public void setSize(int size);

    public String getSrc();
    public void setSrc(String src);

    public int getTabIndex();
    public void setTabIndex(int tabIndex);

    public String getType();
    public void setType(String type);
}

```

```
public String getUseMap();
public void setUseMap(String useMap);

public String getValue();
public void setValue(String value);

public void blur();

public void focus();

public void select();

public void click();
}
```

org/w3c/dom/html2/HTMLTextAreaElement.java:

```
package org.w3c.dom.html2;

public interface HTMLTextAreaElement extends HTMLElement {
    public String getDefaultValue();
    public void setDefaultValue(String defaultValue);

    public HTMLFormElement getForm();

    public String getAccessKey();
    public void setAccessKey(String accessKey);

    public int getCols();
    public void setCols(int cols);

    public boolean getDisabled();
    public void setDisabled(boolean disabled);

    public String getName();
    public void setName(String name);

    public boolean getReadOnly();
    public void setReadOnly(boolean readOnly);

    public int getRows();
    public void setRows(int rows);

    public int getTabIndex();
    public void setTabIndex(int tabIndex);

    public String getType();

    public String getValue();
    public void setValue(String value);

    public void blur();

    public void focus();
}
```

```
    public void select();  
}
```

org/w3c/dom/html2/HTMLButtonElement.java:

```
package org.w3c.dom.html2;  
  
public interface HTMLButtonElement extends HTMLElement {  
    public HTMLFormElement getForm();  
  
    public String getAccessKey();  
    public void setAccessKey(String accessKey);  
  
    public boolean getDisabled();  
    public void setDisabled(boolean disabled);  
  
    public String getName();  
    public void setName(String name);  
  
    public int getTabIndex();  
    public void setTabIndex(int tabIndex);  
  
    public String getType();  
  
    public String getValue();  
    public void setValue(String value);  
}
```

org/w3c/dom/html2/HTMLLabelElement.java:

```
package org.w3c.dom.html2;  
  
public interface HTMLLabelElement extends HTMLElement {  
    public HTMLFormElement getForm();  
  
    public String getAccessKey();  
    public void setAccessKey(String accessKey);  
  
    public String getHtmlFor();  
    public void setHtmlFor(String htmlFor);  
}
```

org/w3c/dom/html2/HTMLFieldSetElement.java:

```
package org.w3c.dom.html2;  
  
public interface HTMLFieldSetElement extends HTMLElement {  
    public HTMLFormElement getForm();  
}
```

org/w3c/dom/html2/HTMLLegendElement.java:

```
package org.w3c.dom.html2;

public interface HTMLLegendElement extends HTMLElement {
    public HTMLFormElement getForm();

    public String getAccessKey();
    public void setAccessKey(String accessKey);

    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html2/HTMLUListElement.java:

```
package org.w3c.dom.html2;

public interface HTMLUListElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);

    public String getType();
    public void setType(String type);
}
```

org/w3c/dom/html2/HTMLLOListElement.java:

```
package org.w3c.dom.html2;

public interface HTMLLOListElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);

    public int getStart();
    public void setStart(int start);

    public String getType();
    public void setType(String type);
}
```

org/w3c/dom/html2/HTMLDListElement.java:

```
package org.w3c.dom.html2;

public interface HTMLDListElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);
}
```

org/w3c/dom/html2/HTMLDirectoryElement.java:

```
package org.w3c.dom.html2;

public interface HTMLDirectoryElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);
}
```

org/w3c/dom/html2/HTMLMenuElement.java:

```
package org.w3c.dom.html2;

public interface HTMLMenuElement extends HTMLElement {
    public boolean getCompact();
    public void setCompact(boolean compact);
}
```

org/w3c/dom/html2/HTMLLIElement.java:

```
package org.w3c.dom.html2;

public interface HTMLLIElement extends HTMLElement {
    public String getType();
    public void setType(String type);

    public int getValue();
    public void setValue(int value);
}
```

org/w3c/dom/html2/HTMLDivElement.java:

```
package org.w3c.dom.html2;

public interface HTMLDivElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html2/HTMLParagraphElement.java:

```
package org.w3c.dom.html2;

public interface HTMLParagraphElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```


org/w3c/dom/html2/HTMLHeadingElement.java:

```
package org.w3c.dom.html2;

public interface HTMLHeadingElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html2/HTMLQuoteElement.java:

```
package org.w3c.dom.html2;

public interface HTMLQuoteElement extends HTMLElement {
    public String getCite();
    public void setCite(String cite);
}
```

org/w3c/dom/html2/HTMLPreElement.java:

```
package org.w3c.dom.html2;

public interface HTMLPreElement extends HTMLElement {
    public int getWidth();
    public void setWidth(int width);
}
```

org/w3c/dom/html2/HTMLBRElement.java:

```
package org.w3c.dom.html2;

public interface HTMLBRElement extends HTMLElement {
    public String getClear();
    public void setClear(String clear);
}
```

org/w3c/dom/html2/HTMLBaseFontElement.java:

```
package org.w3c.dom.html2;

public interface HTMLBaseFontElement extends HTMLElement {
    public String getColor();
    public void setColor(String color);

    public String getFace();
    public void setFace(String face);
}
```

```
    public int getSize();
    public void setSize(int size);
}
```

org/w3c/dom/html2/HTMLFontElement.java:

```
package org.w3c.dom.html2;

public interface HTMLFontElement extends HTMLElement {
    public String getColor();
    public void setColor(String color);

    public String getFace();
    public void setFace(String face);

    public String getSize();
    public void setSize(String size);
}
```

org/w3c/dom/html2/HTMLHRElement.java:

```
package org.w3c.dom.html2;

public interface HTMLHRElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);

    public boolean getNoShade();
    public void setNoShade(boolean noShade);

    public String getSize();
    public void setSize(String size);

    public String getWidth();
    public void setWidth(String width);
}
```

org/w3c/dom/html2/HTMLModElement.java:

```
package org.w3c.dom.html2;

public interface HTMLModElement extends HTMLElement {
    public String getCite();
    public void setCite(String cite);

    public String getDateTime();
    public void setDateTime(String dateTime);
}
```

org/w3c/dom/html2/HTMLAnchorElement.java:

```
package org.w3c.dom.html2;

public interface HTMLAnchorElement extends HTMLElement {
    public String getAccessKey();
    public void setAccessKey(String accessKey);

    public String getCharset();
    public void setCharset(String charset);

    public String getCoords();
    public void setCoords(String coords);

    public String getHref();
    public void setHref(String href);

    public String getHreflang();
    public void setHreflang(String hreflang);

    public String getName();
    public void setName(String name);

    public String getRel();
    public void setRel(String rel);

    public String getRev();
    public void setRev(String rev);

    public String getShape();
    public void setShape(String shape);

    public int getTabIndex();
    public void setTabIndex(int tabIndex);

    public String getTarget();
    public void setTarget(String target);

    public String getType();
    public void setType(String type);

    public void blur();

    public void focus();
}
```

org/w3c/dom/html2/HTMLImageElement.java:

```
package org.w3c.dom.html2;

public interface HTMLImageElement extends HTMLElement {
    public String getName();
    public void setName(String name);

    public String getAlign();
```

```
public void setAlign(String align);

public String getAlt();
public void setAlt(String alt);

public String getBorder();
public void setBorder(String border);

public int getHeight();
public void setHeight(int height);

public int getHspace();
public void setHspace(int hspace);

public boolean getIsMap();
public void setIsMap(boolean isMap);

public String getLongDesc();
public void setLongDesc(String longDesc);

public String getSrc();
public void setSrc(String src);

public String getUseMap();
public void setUseMap(String useMap);

public int getVspace();
public void setVspace(int vspace);

public int getWidth();
public void setWidth(int width);
}
```

org/w3c/dom/html2/HTMLObjectElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Document;

public interface HTMLObjectElement extends HTMLElement {
    public HTMLFormElement getForm();

    public String getCode();
    public void setCode(String code);

    public String getAlign();
    public void setAlign(String align);

    public String getArchive();
    public void setArchive(String archive);

    public String getBorder();
    public void setBorder(String border);

    public String getCodeBase();
```

```
public void setCodeBase(String codeBase);

public String getCodeType();
public void setCodeType(String codeType);

public String getData();
public void setData(String data);

public boolean getDeclare();
public void setDeclare(boolean declare);

public String getHeight();
public void setHeight(String height);

public int getHspace();
public void setHspace(int hspace);

public String getName();
public void setName(String name);

public String getStandby();
public void setStandby(String standby);

public int getTabIndex();
public void setTabIndex(int tabIndex);

public String getType();
public void setType(String type);

public String getUseMap();
public void setUseMap(String useMap);

public int getVspace();
public void setVspace(int vspace);

public String getWidth();
public void setWidth(String width);

public Document getContentDocument();
}
```

org/w3c/dom/html2/HTMLParamElement.java:

```
package org.w3c.dom.html2;

public interface HTMLParamElement extends HTMLInputElement {
    public String getName();
    public void setName(String name);

    public String getType();
    public void setType(String type);

    public String getValue();
    public void setValue(String value);
}
```

```
    public String getValueType();
    public void setValueType(String valueType);
}
```

org/w3c/dom/html2/HTMLAppletElement.java:

```
package org.w3c.dom.html2;

public interface HTMLAppletElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);

    public String getAlt();
    public void setAlt(String alt);

    public String getArchive();
    public void setArchive(String archive);

    public String getCode();
    public void setCode(String code);

    public String getCodeBase();
    public void setCodeBase(String codeBase);

    public String getHeight();
    public void setHeight(String height);

    public int getHspace();
    public void setHspace(int hspace);

    public String getName();
    public void setName(String name);

    public String getObject();
    public void setObject(String object);

    public int getVspace();
    public void setVspace(int vspace);

    public String getWidth();
    public void setWidth(String width);
}
```

org/w3c/dom/html2/HTMLMapElement.java:

```
package org.w3c.dom.html2;

public interface HTMLMapElement extends HTMLElement {
    public HTMLCollection getAreas();

    public String getName();
    public void setName(String name);
}
```

org/w3c/dom/html2/HTMLAreaElement.java:

```
package org.w3c.dom.html2;

public interface HTMLAreaElement extends HTMLElement {
    public String getAccessKey();
    public void setAccessKey(String accessKey);

    public String getAlt();
    public void setAlt(String alt);

    public String getCoords();
    public void setCoords(String coords);

    public String getHref();
    public void setHref(String href);

    public boolean getNoHref();
    public void setNoHref(boolean noHref);

    public String getShape();
    public void setShape(String shape);

    public int getTabIndex();
    public void setTabIndex(int tabIndex);

    public String getTarget();
    public void setTarget(String target);
}
```

org/w3c/dom/html2/HTMLScriptElement.java:

```
package org.w3c.dom.html2;

public interface HTMLScriptElement extends HTMLElement {
    public String getText();
    public void setText(String text);

    public String getHtmlFor();
    public void setHtmlFor(String htmlFor);

    public String getEvent();
    public void setEvent(String event);

    public String getCharset();
    public void setCharset(String charset);

    public boolean getDefer();
    public void setDefer(boolean defer);

    public String getSrc();
    public void setSrc(String src);
}
```

```

    public String getType();
    public void setType(String type);
}

```

org/w3c/dom/html2/HTMLTableElement.java:

```

package org.w3c.dom.html2;

import org.w3c.dom.DOMException;

public interface HTMLTableElement extends HTMLElement {
    public HTMLTableCaptionElement getCaption();
    public void setCaption(HTMLTableCaptionElement caption)
        throws DOMException;

    public HTMLTableSectionElement getTHead();
    public void setTHead(HTMLTableSectionElement tHead)
        throws DOMException;

    public HTMLTableSectionElement getTFoot();
    public void setTFoot(HTMLTableSectionElement tFoot)
        throws DOMException;

    public HTMLCollection getRows();

    public HTMLCollection getTBodies();

    public String getAlign();
    public void setAlign(String align);

    public String getBgColor();
    public void setBgColor(String bgColor);

    public String getBorder();
    public void setBorder(String border);

    public String getCellPadding();
    public void setCellPadding(String cellPadding);

    public String getCellSpacing();
    public void setCellSpacing(String cellSpacing);

    public String getFrame();
    public void setFrame(String frame);

    public String getRules();
    public void setRules(String rules);

    public String getSummary();
    public void setSummary(String summary);

    public String getWidth();
    public void setWidth(String width);

    public HTMLElement createTHead();

```



```
public void deleteTHead();

public HTMLElement createTFoot();

public void deleteTFoot();

public HTMLElement createCaption();

public void deleteCaption();

public HTMLElement insertRow(int index)
                           throws DOMException;

public void deleteRow(int index)
                   throws DOMException;

}
```

org/w3c/dom/html2/HTMLTableCaptionElement.java:

```
package org.w3c.dom.html2;

public interface HTMLTableCaptionElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);
}
```

org/w3c/dom/html2/HTMLTableColElement.java:

```
package org.w3c.dom.html2;

public interface HTMLTableColElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);

    public String getCh();
    public void setCh(String ch);

    public String getChOff();
    public void setChOff(String chOff);

    public int getSpan();
    public void setSpan(int span);

    public String getVAlign();
    public void setVAlign(String vAlign);

    public String getWidth();
    public void setWidth(String width);
}
```

org/w3c/dom/html2/HTMLTableSectionElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.DOMException;

public interface HTMLTableSectionElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);

    public String getCh();
    public void setCh(String ch);

    public String getChOff();
    public void setChOff(String chOff);

    public String getVAlign();
    public void setVAlign(String vAlign);

    public HTMLCollection getRows();

    public HTMLElement insertRow(int index)
        throws DOMException;

    public void deleteRow(int index)
        throws DOMException;
}
```

org/w3c/dom/html2/HTMLTableRowElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.DOMException;

public interface HTMLTableRowElement extends HTMLElement {
    public int getRowIndex();

    public int getSectionRowIndex();

    public HTMLCollection getCells();

    public String getAlign();
    public void setAlign(String align);

    public String getBgColor();
    public void setBgColor(String bgColor);

    public String getCh();
    public void setCh(String ch);

    public String getChOff();
    public void setChOff(String chOff);

    public String getVAlign();
    public void setVAlign(String vAlign);
}
```

```
public HTMLElement insertCell(int index)
                                throws DOMException;

public void deleteCell(int index)
                throws DOMException;

}
```

org/w3c/dom/html2/HTMLTableCellElement.java:

```
package org.w3c.dom.html2;

public interface HTMLTableCellElement extends HTMLElement {
    public int getCellIndex();

    public String getAbbr();
    public void setAbbr(String abbr);

    public String getAlign();
    public void setAlign(String align);

    public String getAxis();
    public void setAxis(String axis);

    public String getBgColor();
    public void setBgColor(String bgColor);

    public String getCh();
    public void setCh(String ch);

    public String getChOff();
    public void setChOff(String chOff);

    public int getColSpan();
    public void setColSpan(int colSpan);

    public String getHeaders();
    public void setHeaders(String headers);

    public String getHeight();
    public void setHeight(String height);

    public boolean getNowrap();
    public void setNowrap(boolean nowrap);

    public int getRowSpan();
    public void setRowSpan(int rowSpan);

    public String getScope();
    public void setScope(String scope);

    public String getVAlign();
    public void setVAlign(String vAlign);
}
```

```
    public String getWidth();
    public void setWidth(String width);
}
```

org/w3c/dom/html2/HTMLFrameSetElement.java:

```
package org.w3c.dom.html2;

public interface HTMLFrameSetElement extends HTMLElement {
    public String getCols();
    public void setCols(String cols);

    public String getRows();
    public void setRows(String rows);
}
```

org/w3c/dom/html2/HTMLFrameElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Document;

public interface HTMLFrameElement extends HTMLElement {
    public String getFrameBorder();
    public void setFrameBorder(String frameBorder);

    public String getLongDesc();
    public void setLongDesc(String longDesc);

    public String getMarginHeight();
    public void setMarginHeight(String marginHeight);

    public String getMarginWidth();
    public void setMarginWidth(String marginWidth);

    public String getName();
    public void setName(String name);

    public boolean getNoResize();
    public void setNoResize(boolean noResize);

    public String getScrolling();
    public void setScrolling(String scrolling);

    public String getSrc();
    public void setSrc(String src);

    public Document getContentDocument();
}
```

org/w3c/dom/html2/HTMLIFrameElement.java:

```
package org.w3c.dom.html2;

import org.w3c.dom.Document;

public interface HTMLIFrameElement extends HTMLElement {
    public String getAlign();
    public void setAlign(String align);

    public String getFrameBorder();
    public void setFrameBorder(String frameBorder);

    public String getHeight();
    public void setHeight(String height);

    public String getLongDesc();
    public void setLongDesc(String longDesc);

    public String getMarginHeight();
    public void setMarginHeight(String marginHeight);

    public String getMarginWidth();
    public void setMarginWidth(String marginWidth);

    public String getName();
    public void setName(String name);

    public String getScrolling();
    public void setScrolling(String scrolling);

    public String getSrc();
    public void setSrc(String src);

    public String getWidth();
    public void setWidth(String width);

    public Document getContentDocument();
}
```

org/w3c/dom/html2/HTMLIFrameElement.java:

Appendix D: ECMAScript Language Binding

This appendix contains the complete ECMAScript [ECMAScript] binding for the Level 2 Document Object Model HTML definitions.

Note: Exceptions handling is only supported by ECMAScript implementation conformant with the Standard ECMA-262 3rd. Edition ([ECMAScript]).

Objects that implement the **HTMLCollection** interface:

Properties of objects that implement the **HTMLCollection** interface:

length

This read-only property is a **Number**.

Functions of objects that implement the **HTMLCollection** interface:

item(index)

This function returns an object that implements the **Node** interface.

The **index** parameter is a **Number**.

Note: This object can also be dereferenced using square bracket notation (e.g. obj[1]).

Dereferencing with an integer **index** is equivalent to invoking the **item** function with that index.

namedItem(name)

This function returns an object that implements the **Node** interface.

The **name** parameter is a **String**.

Note: This object can also be dereferenced using square bracket notation (e.g. obj["foo"]).

Dereferencing using a string index is equivalent to invoking the **namedItem** function with that index.

Objects that implement the **HTMLOptionsCollection** interface:

Properties of objects that implement the **HTMLOptionsCollection** interface:

length

This property is a **Number** and can raise an object that implements **DOMException** interface on setting.

Functions of objects that implement the **HTMLOptionsCollection** interface:

item(index)

This function returns an object that implements the **Node** interface.

The **index** parameter is a **Number**.

Note: This object can also be dereferenced using square bracket notation (e.g. obj[1]).

Dereferencing with an integer **index** is equivalent to invoking the **item** function with that index.

namedItem(name)

This function returns an object that implements the **Node** interface.

The **name** parameter is a **String**.

Note: This object can also be dereferenced using square bracket notation (e.g. obj["foo"]).

Dereferencing using a string index is equivalent to invoking the **namedItem** function with that index.

Objects that implement the **HTMLDocument** interface:

Objects that implement the **HTMLDocument** interface have all properties and functions of the **Document** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLDocument** interface:

title

This property is a **String**.

referrer

This read-only property is a **String**.

domain

This read-only property is a **String**.

URL

This read-only property is a **String**.

body

This property is an object that implements the **HTMLElement** interface.

images

This read-only property is an object that implements the **HTMLCollection** interface.

applets

This read-only property is an object that implements the **HTMLCollection** interface.

links

This read-only property is an object that implements the **HTMLCollection** interface.

forms

This read-only property is an object that implements the **HTMLCollection** interface.

anchors

This read-only property is an object that implements the **HTMLCollection** interface.

cookie

This property is a **String** and can raise an object that implements **DOMException** interface on setting.

Functions of objects that implement the **HTMLDocument** interface:

open()

This function has no return value.

close()

This function has no return value.

write(text)

This function has no return value.

The **text** parameter is a **String**.

writeln(text)

This function has no return value.

The **text** parameter is a **String**.

getElementsByName(elementName)

This function returns an object that implements the **NodeList** interface.

The **elementName** parameter is a **String**.

Objects that implement the **HTMLElement** interface:

Objects that implement the **HTMLElement** interface have all properties and functions of the **Element** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLElement** interface:

id

This property is a **String**.

title

This property is a **String**.

lang

This property is a **String**.

dir

This property is a **String**.

className

This property is a **String**.

Objects that implement the **HTMLHtmlElement** interface:

Objects that implement the **HTMLHtmlElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLHtmlElement** interface:

version

This property is a **String**.

Objects that implement the **HTMLHeadElement** interface:

Objects that implement the **HTMLHeadElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLHeadElement** interface:

profile

This property is a **String**.

Objects that implement the **HTMMLinkElement** interface:

Objects that implement the **HTMMLinkElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMMLinkElement** interface:

disabled

This property is a **Boolean**.

charset

This property is a **String**.

href

This property is a **String**.

hreflang

This property is a **String**.

media

This property is a **String**.

rel

This property is a **String**.

rev

This property is a **String**.

target

This property is a **String**.

type

This property is a **String**.

Objects that implement the **HTMLTitleElement** interface:

Objects that implement the **HTMLTitleElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTitleElement** interface:

text

This property is a **String**.

Objects that implement the **HTMLMetaElement** interface:

Objects that implement the **HTMLMetaElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLMetaElement** interface:

content

This property is a **String**.

httpEquiv

This property is a **String**.

name

This property is a **String**.

scheme

This property is a **String**.

Objects that implement the **HTMLBaseElement** interface:

Objects that implement the **HTMLBaseElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLBaseElement** interface:

href

This property is a **String**.

target

This property is a **String**.

Objects that implement the **HTMLIsIndexElement** interface:

Objects that implement the **HTMLIsIndexElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLIsIndexElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

prompt

This property is a **String**.

Objects that implement the **HTMLStyleElement** interface:

Objects that implement the **HTMLStyleElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLStyleElement** interface:

disabled

This property is a **Boolean**.

media

This property is a **String**.

type

This property is a **String**.

Objects that implement the **HTMLBodyElement** interface:

Objects that implement the **HTMLBodyElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLBodyElement** interface:

aLink

This property is a **String**.

background

This property is a **String**.

bgColor

This property is a **String**.

link

This property is a **String**.

text

This property is a **String**.

vLink

This property is a **String**.

Objects that implement the **HTMLFormElement** interface:

Objects that implement the **HTMLFormElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLFormElement** interface:

elements

This read-only property is an object that implements the **HTMLCollection** interface.

length

This read-only property is a **Number**.

name

This property is a **String**.

acceptCharset

This property is a **String**.

action

This property is a **String**.

enctype

This property is a **String**.

method

This property is a **String**.

target

This property is a **String**.

Functions of objects that implement the **HTMLFormElement** interface:

submit()

This function has no return value.

reset()

This function has no return value.

Objects that implement the **HTMLSelectElement** interface:

Objects that implement the **HTMLSelectElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLSelectElement** interface:

type

This read-only property is a **String**.

selectedIndex

This property is a **Number**.

value

This property is a **String**.

length

This property is a **Number** and can raise an object that implements **DOMException** interface on setting.

form

This read-only property is an object that implements the **HTMLFormElement** interface.

options

This read-only property is an object that implements the **HTMLOptionsCollection** interface.

disabled

This property is a **Boolean**.

multiple

This property is a **Boolean**.

name

This property is a **String**.

size

This property is a **Number**.

tabIndex

This property is a **Number**.

Functions of objects that implement the **HTMLSelectElement** interface:

add(element, before)

This function has no return value.

The **element** parameter is an object that implements the **HTMLElement** interface.

The **before** parameter is an object that implements the **HTMLElement** interface.

This function can raise an object that implements the **DOMException** interface.

remove(index)

This function has no return value.

The **index** parameter is a **Number**.

blur()

This function has no return value.

focus()

This function has no return value.

Objects that implement the **HTMLOptGroupElement** interface:

Objects that implement the **HTMLOptGroupElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLOptGroupElement** interface:

disabled

This property is a **Boolean**.

label

This property is a **String**.

Objects that implement the **HTMLOptionElement** interface:

Objects that implement the **HTMLOptionElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLOptionElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

defaultSelected

This property is a **Boolean**.

text

This read-only property is a **String**.

index

This read-only property is a **Number**.

disabled

This property is a **Boolean**.

label

This property is a **String**.

selected

This property is a **Boolean**.

value

This property is a **String**.

Objects that implement the **HTMLInputElement** interface:

Objects that implement the **HTMLInputElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLInputElement** interface:

defaultValue

This property is a **String**.

defaultChecked

This property is a **Boolean**.

form

This read-only property is an object that implements the **HTMLFormElement** interface.

accept

This property is a **String**.

accessKey

This property is a **String**.

align

This property is a **String**.

alt

This property is a **String**.

checked

This property is a **Boolean**.

disabled

This property is a **Boolean**.

maxLength

This property is a **Number**.

name

This property is a **String**.

readOnly

This property is a **Boolean**.

size

This property is a **Number**.

srcThis property is a **String**.**tabIndex**This property is a **Number**.**type**This property is a **String**.**useMap**This property is a **String**.**value**This property is a **String**.Functions of objects that implement the **HTMLInputElement** interface:**blur()**

This function has no return value.

focus()

This function has no return value.

select()

This function has no return value.

click()

This function has no return value.

Objects that implement the **HTMLTextAreaElement** interface:

Objects that implement the **HTMLTextAreaElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTextAreaElement** interface:

defaultValueThis property is a **String**.**form**This read-only property is an object that implements the **HTMLFormElement** interface.**accessKey**This property is a **String**.**cols**This property is a **Number**.**disabled**This property is a **Boolean**.**name**This property is a **String**.**readOnly**This property is a **Boolean**.**rows**This property is a **Number**.**tabIndex**This property is a **Number**.**type**This read-only property is a **String**.**value**This property is a **String**.

Functions of objects that implement the **HTMLTextAreaElement** interface:

blur()

This function has no return value.

focus()

This function has no return value.

select()

This function has no return value.

Objects that implement the **HTMLButtonElement** interface:

Objects that implement the **HTMLButtonElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLButtonElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

accessKey

This property is a **String**.

disabled

This property is a **Boolean**.

name

This property is a **String**.

tabIndex

This property is a **Number**.

type

This read-only property is a **String**.

value

This property is a **String**.

Objects that implement the **HTMLLabelElement** interface:

Objects that implement the **HTMLLabelElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLLabelElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

accessKey

This property is a **String**.

htmlFor

This property is a **String**.

Objects that implement the **HTMLFieldSetElement** interface:

Objects that implement the **HTMLFieldSetElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLFieldSetElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

Objects that implement the **HTMLLegendElement** interface:

Objects that implement the **HTMLLegendElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLLegendElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

accessKey

This property is a **String**.

align

This property is a **String**.

Objects that implement the **HTMLUListElement** interface:

Objects that implement the **HTMLUListElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLUListElement** interface:

compact

This property is a **Boolean**.

type

This property is a **String**.

Objects that implement the **HTMLOLListElement** interface:

Objects that implement the **HTMLOLListElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLOLListElement** interface:

compact

This property is a **Boolean**.

start

This property is a **Number**.

type

This property is a **String**.

Objects that implement the **HTMLDListElement** interface:

Objects that implement the **HTMLDListElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLDListElement** interface:

compact

This property is a **Boolean**.

Objects that implement the **HTMLDirectoryElement** interface:

Objects that implement the **HTMLDirectoryElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLDirectoryElement** interface:

compact

This property is a **Boolean**.

Objects that implement the **HTMLMenuElement** interface:

Objects that implement the **HTMLMenuElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLMenuElement** interface:

compact

This property is a **Boolean**.

Objects that implement the **HTMLLIElement** interface:

Objects that implement the **HTMLLIElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLLIElement** interface:

type

This property is a **String**.

value

This property is a **Number**.

Objects that implement the **HTMLDivElement** interface:

Objects that implement the **HTMLDivElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLDivElement** interface:

align

This property is a **String**.

Objects that implement the **HTMLParagraphElement** interface:

Objects that implement the **HTMLParagraphElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLParagraphElement** interface:

align

This property is a **String**.

Objects that implement the **HTMLHeadingElement** interface:

Objects that implement the **HTMLHeadingElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLHeadingElement** interface:

align

This property is a **String**.

Objects that implement the **HTMLQuoteElement** interface:

Objects that implement the **HTMLQuoteElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLQuoteElement** interface:

cite

This property is a **String**.

Objects that implement the **HTMLPreElement** interface:

Objects that implement the **HTMLPreElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLPreElement** interface:

width

This property is a **Number**.

Objects that implement the **HTMLBRElement** interface:

Objects that implement the **HTMLBRElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLBRElement** interface:

clear

This property is a **String**.

Objects that implement the **HTMLBaseFontElement** interface:

Objects that implement the **HTMLBaseFontElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLBaseFontElement** interface:

color

This property is a **String**.

face

This property is a **String**.

size

This property is a **Number**.

Objects that implement the **HTMLFontElement** interface:

Objects that implement the **HTMLFontElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLFontElement** interface:

color

This property is a **String**.

face

This property is a **String**.

size

This property is a **String**.

Objects that implement the **HTMLHRElement** interface:

Objects that implement the **HTMLHRElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLHRElement** interface:

align

This property is a **String**.

noShade

This property is a **Boolean**.

size

This property is a **String**.

width

This property is a **String**.

Objects that implement the **HTMLModElement** interface:

Objects that implement the **HTMLModElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLModElement** interface:

cite

This property is a **String**.

dateTime

This property is a **String**.

Objects that implement the **HTMLAnchorElement** interface:

Objects that implement the **HTMLAnchorElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLAnchorElement** interface:

accessKey

This property is a **String**.

charset

This property is a **String**.

coords

This property is a **String**.

href

This property is a **String**.

hreflang

This property is a **String**.

name

This property is a **String**.

rel

This property is a **String**.

rev

This property is a **String**.

shape

This property is a **String**.

tabIndex

This property is a **Number**.

target

This property is a **String**.

type

This property is a **String**.

Functions of objects that implement the **HTMLAnchorElement** interface:

blur()

This function has no return value.

focus()

This function has no return value.

Objects that implement the **HTMLImageElement** interface:

Objects that implement the **HTMLImageElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLImageElement** interface:

name

This property is a **String**.

align

This property is a **String**.

alt

This property is a **String**.

border

This property is a **String**.

height

This property is a **Number**.

hspace

This property is a **Number**.

isMap

This property is a **Boolean**.

longDesc

This property is a **String**.

src

This property is a **String**.

useMap

This property is a **String**.

vspace

This property is a **Number**.

width

This property is a **Number**.

Objects that implement the **HTMLObjectElement** interface:

Objects that implement the **HTMLObjectElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLObjectElement** interface:

form

This read-only property is an object that implements the **HTMLFormElement** interface.

code

This property is a **String**.

align

This property is a **String**.

archive

This property is a **String**.

border

This property is a **String**.

codeBase

This property is a **String**.

codeType

This property is a **String**.

data

This property is a **String**.

declare

This property is a **Boolean**.

height

This property is a **String**.

hspace

This property is a **Number**.

name

This property is a **String**.

standby

This property is a **String**.

tabIndex

This property is a **Number**.

type

This property is a **String**.

useMap

This property is a **String**.

vspace

This property is a **Number**.

width

This property is a **String**.

contentDocument

This read-only property is an object that implements the **Document** interface.

Objects that implement the **HTMLParamElement** interface:

Objects that implement the **HTMLParamElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLParamElement** interface:

name

This property is a **String**.

type

This property is a **String**.

value

This property is a **String**.

valueType

This property is a **String**.

Objects that implement the **HTMLAppletElement** interface:

Objects that implement the **HTMLAppletElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLAppletElement** interface:

align

This property is a **String**.

alt

This property is a **String**.

archive

This property is a **String**.

code

This property is a **String**.

codeBase

This property is a **String**.

height

This property is a **String**.

hspace

This property is a **Number**.

name

This property is a **String**.

object

This property is a **String**.

vspace

This property is a **Number**.

width

This property is a **String**.

Objects that implement the **HTMLMapElement** interface:

Objects that implement the **HTMLMapElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLMapElement** interface:

areas

This read-only property is an object that implements the **HTMLCollection** interface.

name

This property is a **String**.

Objects that implement the **HTMLAreaElement** interface:

Objects that implement the **HTMLAreaElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLAreaElement** interface:

accessKey

This property is a **String**.

alt

This property is a **String**.

coords

This property is a **String**.

href

This property is a **String**.

noHref

This property is a **Boolean**.

shape

This property is a **String**.

tabIndex

This property is a **Number**.

target

This property is a **String**.

Objects that implement the **HTMLScriptElement** interface:

Objects that implement the **HTMLScriptElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLScriptElement** interface:

text

This property is a **String**.

htmlFor

This property is a **String**.

event

This property is a **String**.

charset

This property is a **String**.

defer

This property is a **Boolean**.

src

This property is a **String**.

type

This property is a **String**.

Objects that implement the **HTMLTableElement** interface:

Objects that implement the **HTMLTableElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTableElement** interface:

caption

This property is an object that implements the **HTMLTableCaptionElement** interface and

can raise an object that implements **DOMException** interface on setting.

tHead

This property is an object that implements the **HTMLTableSectionElement** interface and can raise an object that implements **DOMException** interface on setting.

tFoot

This property is an object that implements the **HTMLTableSectionElement** interface and can raise an object that implements **DOMException** interface on setting.

rows

This read-only property is an object that implements the **HTMLCollection** interface.

tBodies

This read-only property is an object that implements the **HTMLCollection** interface.

align

This property is a **String**.

bgColor

This property is a **String**.

border

This property is a **String**.

cellPadding

This property is a **String**.

cellSpacing

This property is a **String**.

frame

This property is a **String**.

rules

This property is a **String**.

summary

This property is a **String**.

width

This property is a **String**.

Functions of objects that implement the **HTMLTableElement** interface:

createTHead()

This function returns an object that implements the **HTMLElement** interface.

deleteTHead()

This function has no return value.

createTFoot()

This function returns an object that implements the **HTMLElement** interface.

deleteTFoot()

This function has no return value.

createCaption()

This function returns an object that implements the **HTMLElement** interface.

deleteCaption()

This function has no return value.

insertRow(index)

This function returns an object that implements the **HTMLElement** interface.

The **index** parameter is a **Number**.

This function can raise an object that implements the **DOMException** interface.

deleteRow(index)

This function has no return value.

The **index** parameter is a **Number**.

This function can raise an object that implements the **DOMException** interface.

Objects that implement the **HTMLTableCaptionElement** interface:

Objects that implement the **HTMLTableCaptionElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTableCaptionElement** interface:

align

This property is a **String**.

Objects that implement the **HTMLTableColElement** interface:

Objects that implement the **HTMLTableColElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTableColElement** interface:

align

This property is a **String**.

ch

This property is a **String**.

chOff

This property is a **String**.

span

This property is a **Number**.

vAlign

This property is a **String**.

width

This property is a **String**.

Objects that implement the **HTMLTableSectionElement** interface:

Objects that implement the **HTMLTableSectionElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTableSectionElement** interface:

align

This property is a **String**.

ch

This property is a **String**.

chOff

This property is a **String**.

vAlign

This property is a **String**.

rows

This read-only property is an object that implements the **HTMLCollection** interface.

Functions of objects that implement the **HTMLTableSectionElement** interface:

insertRow(index)

This function returns an object that implements the **HTMLElement** interface.

The **index** parameter is a **Number**.

This function can raise an object that implements the **DOMException** interface.

deleteRow(index)

This function has no return value.

The **index** parameter is a **Number**.

This function can raise an object that implements the **DOMException** interface.

Objects that implement the **HTMLTableRowElement** interface:

Objects that implement the **HTMLTableRowElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTableRowElement** interface:

rowIndex

This read-only property is a **Number**.

sectionRowIndex

This read-only property is a **Number**.

cells

This read-only property is an object that implements the **HTMLCollection** interface.

align

This property is a **String**.

bgColor

This property is a **String**.

ch

This property is a **String**.

chOff

This property is a **String**.

vAlign

This property is a **String**.

Functions of objects that implement the **HTMLTableRowElement** interface:

insertCell(index)

This function returns an object that implements the **HTMLElement** interface.

The **index** parameter is a **Number**.

This function can raise an object that implements the **DOMException** interface.

deleteCell(index)

This function has no return value.

The **index** parameter is a **Number**.

This function can raise an object that implements the **DOMException** interface.

Objects that implement the **HTMLTableCellElement** interface:

Objects that implement the **HTMLTableCellElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLTableCellElement** interface:

cellIndex

This read-only property is a **Number**.

abbr

This property is a **String**.

align

This property is a **String**.

axis

This property is a **String**.

bgColor

This property is a **String**.

ch

This property is a **String**.

chOff

This property is a **String**.

colSpan

This property is a **Number**.

headers

This property is a **String**.

height

This property is a **String**.

noWrap

This property is a **Boolean**.

rowSpan

This property is a **Number**.

scope

This property is a **String**.

vAlign

This property is a **String**.

width

This property is a **String**.

Objects that implement the **HTMLFrameSetElement** interface:

Objects that implement the **HTMLFrameSetElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLFrameSetElement** interface:

cols

This property is a **String**.

rows

This property is a **String**.

Objects that implement the **HTMLFrameElement** interface:

Objects that implement the **HTMLFrameElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLFrameElement** interface:

frameBorder

This property is a **String**.

longDesc

This property is a **String**.

marginHeight

This property is a **String**.

marginWidth

This property is a **String**.

name

This property is a **String**.

noResize

This property is a **Boolean**.

scrolling

This property is a **String**.

src

This property is a **String**.

contentDocument

This read-only property is an object that implements the **Document** interface.

Objects that implement the **HTMLIFrameElement** interface:

Objects that implement the **HTMLIFrameElement** interface have all properties and functions of the **HTMLElement** interface as well as the properties and functions defined below.

Properties of objects that implement the **HTMLIFrameElement** interface:

align

This property is a **String**.

frameBorder

This property is a **String**.

height

This property is a **String**.

longDesc

This property is a **String**.

marginHeight

This property is a **String**.

marginWidth

This property is a **String**.

name

This property is a **String**.

scrolling

This property is a **String**.

src

This property is a **String**.

width

This property is a **String**.

contentDocument

This read-only property is an object that implements the **Document** interface.

HTMLAnchorElement objects in **String** expressions are evaluated as `HTMLAnchorElement.href` [p.42]. For example:

```
alert(" The absolute URI is " + myAnchorElement);
```

is equivalent to

```
alert(" The absolute URI is " + myAnchorElement.href);
```


Appendix E: Acknowledgements

Many people contributed to this specification, including members of the DOM Working Group and the DOM Interest Group. We especially thank the following:

Andy Heninger (IBM), Arnaud Le Hors (W3C and IBM), Bill Smith (Sun), Bill Shea (Merrill Lynch), Chris Lovett (Microsoft), Chris Wilson (Microsoft), David Brownell (Sun), Glenn Adams (ATSC), James Davidson (Sun), Joe Kesselman (IBM), Joe Lapp (webMethods), Joe Marini (Macromedia), Johnny Stenback (Netscape), Jonathan Marsh (Microsoft), Jonathan Robie (Texcel Research and Software AG), Kim Adamson-Sharpe (SoftQuad Software Inc.), Lauren Wood (SoftQuad Software Inc., *former Chair*), Laurence Cable (Sun), Mark Davis (IBM), Mark Scardina (Oracle), Martin Dürst (W3C), Mick Goulsh (Software AG), Mike Champion (Arbortext and Software AG), Miles Sabin (Cromwell Media), Patti Lutsky (Arbortext), Paul Grosso (Arbortext), Peter Sharpe (SoftQuad Software Inc.), Phil Karlton (Netscape), Philippe Le Hégarret (W3C, *W3C team contact and former Chair*), Ramesh Lekshmyanarayanan (Merrill Lynch), Ray Whitmer (iMall, Excite@Home, Netscape and *Chair*), Rich Rollman (Microsoft), Rick Gessner (Netscape), Tom Pixley (Netscape), Vidur Apparao (Netscape), Vinod Anupam (Lucent).

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The W3C tried to produce the most useful and accurate specification as possible but we wouldn't have been able to do so without the help of the DOM Test Suite effort. Special thanks to Curt Arnold, Rick Rivello (NIST), Robert Clary (Netscape) and Dimitris Dimitriadis for the DOM Level 2 HTML Test Suite. The DOM Test Suite is based on the test suite developed by Mary Brady (NIST).

E.1: Production Systems

This specification was written in XML. The HTML, OMG IDL, Java and ECMAScript bindings were all produced automatically.

This document was generated using DOM Level 2. We used Xerces as the basis DOM implementation and wish to thank the authors. Philippe Le Hégarret and Arnaud Le Hors wrote the Java programs which are the DOM application.

E.2: DOM Level 1

The authors of the DOM Level 1 specification, members of the DOM Working Group, deserve much credit for their hard work:

Lauren Wood (SoftQuad, Inc., *chair*), Arnaud Le Hors (W3C, *W3C staff contact*), Andrew Watson (Object Management Group), Bill Smith (Sun), Chris Lovett (Microsoft), Chris Wilson (Microsoft), David Brownell (Sun), David Singer (IBM), Don Park (invited), Eric Vasilik (Microsoft), Gavin Nicol (INSO), Ian Jacobs (W3C), James Clark (invited), Jared Sorensen (Novell), Jonathan Robie (Texcel Research and Software AG), Mike Champion (ArborText and Software AG), Paul Grosso (ArborText), Peter Sharpe (SoftQuad, Inc.), Phil Karlton (Netscape), Ray Whitmer (iMall), Rich Rollman (Microsoft), Rick Gessner (Netscape), Robert Sutor (IBM), Scott Isaacs (Microsoft), Sharon Adler (INSO), Steve Byrne (JavaSoft),

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Glossary

Editors:

Arnaud Le Hors, IBM
 Lauren Wood, SoftQuad Software Inc.
 Robert S. Sutor, IBM (for DOM Level 1)

Several of the following term definitions have been borrowed or modified from similar definitions in other W3C or standards documents. See the links within the definitions for more information.

convenience

A *convenience method* is an operation on an object that could be accomplished by a program consisting of more basic operations on the object. Convenience *methods* are usually provided to make the API easier and simpler to use or to allow specific programs to create more optimized implementations for common operations. A similar definition holds for a *convenience property*.

data model

A *data model* is a collection of descriptions of data structures and their contained fields, together with the operations or functions that manipulate them.

DOM Level 0

The term "*DOM Level 0*" refers to a mix (not formally specified) of HTML document functionalities offered by Netscape Navigator version 3.0 and Microsoft Internet Explorer version 3.0. In some cases, attributes or *methods* have been included for reasons of backward compatibility with "*DOM Level 0*".

HTML

The HyperText Markup Language (*HTML*) is a simple markup language used to create hypertext documents that are portable from one platform to another. HTML documents are SGML documents with generic semantics that are appropriate for representing information from a wide range of applications. [HTML 4.01]

language binding

A programming *language binding* for an IDL specification is an implementation of the interfaces in the specification for the given language. For example, a Java language binding for the Document Object Model IDL specification would implement the concrete Java classes that provide the functionality exposed by the interfaces.

live

An object is *live* if any change to the underlying document structure is reflected in the object.

tokenized

The description given to various information items (for example, attribute values of various types, but not including the StringType CDATA) after having been processed by the XML processor. The process includes stripping leading and trailing white space, and replacing multiple space characters by one. See the definition of tokenized type.

References

For the latest version of any W3C specification please consult the list of W3C Technical Reports available at <http://www.w3.org/TR>.

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[DOM Level 2 Style Sheets and CSS]

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[DOM Level 3 Load and Save]

Document Object Model Level 3 Load and Save Specification, J. Stenback, A. Heninger, Editors. World Wide Web Consortium, July 2002. This version of the DOM Level 3 Load and Save Specification is <http://www.w3.org/TR/2002/WD-DOM-Level-3-LS-20020725>. The latest version of DOM Level 3 Load and Save is available at <http://www.w3.org/TR/DOM-Level-3-LS>.

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